

December 15, 2022

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Subject: Third Quarter 2022 Groundwater Monitoring Results, Former Thermal Treatment Unit, Nammo Defense Systems Inc., Mesa, Arizona

Dear Ms. Clark:

Pinyon Environmental, Inc. (Pinyon) prepared the following Third Quarter 2022 (Q3 2022) Groundwater Monitoring Report (Report) on behalf of Nammo Defense Systems Inc. (NDS). The report documents field activities and results for groundwater sampling at the NDS former Thermal Treatment Unit (TTU) in Mesa, Arizona (the Site; Figure 1). The monitoring activities were planned and executed following the scope of work and requirements outlined in the *Groundwater Water Sampling and Analysis Plan, Former Thermal Treatment Unit, NAMMO Defense Systems Inc., Mesa Arizona*, dated September 30, 2022 (TTU SAP); and the *Quality Assurance Project Plan, NAMMO Defense Systems Inc. Facility, Mesa, Arizona*, dated April 28, 2022 (NDS Facility QAPP). The TTU SAP was submitted to the U.S. Environmental Protection Agency (EPA) for review and comments were received on August 23, 2022. A revised TTU SAP incorporating responses to EPA's comments was submitted on September 30, 2022. Any changes or deviations from these documents are provided in subsequent sections of this report.

It was requested in comments received following review of the DRAFT TTU First Quarter 2022 Groundwater Monitoring Results that a complete historical data summary table be developed and included in future reports. Pinyon is currently developing a groundwater monitoring database whereby preparation and presentation of historical data summary tables will be made possible. Pinyon expects to present the initial historical summary table as part of the Fourth Quarter/2022 Annual Report, which will be prepared following completion of the Fourth Quarter 2022 groundwater sampling.

I. SCOPE OF ACTIVITIES

With the exception of wells TTU-1 and TTU-2, groundwater monitoring and pumping/extraction wells were sampled between September 3 and 9, 2022. Due to issues associated with storage tank levels and power supply, wells TTU-1 and TTU-2 were not sampled until October 10 and 11, 2022. Well construction details are summarized in Table 1 and well locations are shown in Figure 2. Drilling logs and well construction diagrams are presented in Attachment 1.

1.1 Deviations from Work Plan

The Q3 2022 groundwater monitoring was conducted in accordance with the TTU SAP and NDS Facility QAPP, with the exception of the deviations outlined below:

- Due to inaccurate storage tank level gauges and power supply issues, wells TTU-1 and TTU-2 were sampled on October 10 (TTU-2) and October 11, 2022 (TTU-1) rather than during the initial sampling in September 2022.
- TTU-10 had a detectable perchlorate concentration of 37.0 µg/L, which is similar to the concentration from the original sample collected during Q1 2022 (31.8 µg/L). Based on the Q1 detection and the trigger level (TL) resampling criteria discussed in Section 2.2, Footnote 1, no resampling was conducted. However, if the results from the resampling of TTU-10 in Q1 are used instead of the original sample, the TL would apply with resampling warranted. An analysis of the apparent variability within TTU-10 will be conducted as part of the Q4 annual report. No other TL concentrations were observed in the Q3 2022 laboratory results.

1.2 Groundwater Elevation Measurement

Table 2 provides a summary of groundwater elevation gauging for the 3Q 2022 sampling event. The depth to groundwater measurements were collected using an electronic water level indicator. The depths were measured to the nearest 0.01 foot on the north side, top of casing at each well. Well TTU-18 was dry and was therefore, not sampled.

1.3 Groundwater Sampling

For extraction/pumping wells, the wells were activated and allowed to purge for at least 15 minutes prior to sample collection. Water was taken from the spigot closest to the wellhead. From each sampled well, field parameter measurements were collected using a YSI 556 MPS water quality meter to evaluate water temperature, pH, oxidation reduction potential (ORP), conductivity, dissolved oxygen (DO), and turbidity. For the extraction/pumping wells, field readings were collected every 5 minutes during the minimum 15-minute purging/stabilization period. If purging took longer than 15 minutes, the reasons and rationale are provided on the individual well sampling records presented in Attachment 2. No issues with field parameter stabilization during purging were encountered during the 3Q 2022 sampling event. For non-pumping wells, one round of field parameter measurements was collected at the time of sample collection.

Monitoring wells and other non-pumping wells were sampled using HydraSleeve samplers. The samplers were deployed by Pinyon at the end of the Q2 2022 sampling event. The samplers were suspended inside the wells/boreholes at the depths summarized in Table 3.

Groundwater samples were collected into laboratory provided and preserved sample containers based on analytical method requirements. This information is summarized in Table 3. Each water sample was labeled, secured from breakage, and stored on-ice inside an insulated cooler. The samples were transported under chain-of-custody protocol to Pace Analytical for analysis. Pace Analytical is an Arizona Department of Health Services (ADHS) certified laboratory (#AZ0728).

The groundwater samples were analyzed for total volatile organic compounds (VOCs) using Method 8260B, 1,4-dioxane using Method 8260B-SIM, and perchlorate using Method 314.0 Mod. The sample from PF-2 were analyzed for perchlorate salts using EPA Method 6850. Wells TTU-11 and TTU-19 were sampled for VOCs and 1,4 dioxane.

1.4 Sampling Equipment Decontamination

Disposable sampling equipment such as protective gloves and paper towels were containerized and disposed of as non-hazardous commercial or household waste. Reusable equipment such as the YSI meter and the water level indicator were decontaminated prior to use and between each well using an Alconox and distilled water solution followed by a double rinse with distilled water. The reusable equipment was allowed to air dry prior to its next use.

2. GROUNDWATER MONITORING RESULTS

Laboratory reports and chain-of-custody forms are presented in Attachment 3. The following data summary tables are provided:

- Table 1 – Former Thermal Treatment Unit 2022 Groundwater Well Network
- Table 2 – Groundwater Elevations - Third Quarter 2022
- Table 3 – Summary of Perchlorate Concentrations - Third Quarter 2022
- Table 4 – Summary of Detected VOC Concentrations - Third Quarter 2022
- Table 5 – Historical 1,4-Dioxane and TCE Concentrations

During EPA's review of the Q1 2022 groundwater monitoring results, it was requested Pinyon provide in Table 1 the elevation difference between the top of casing elevation and the ground surface (well stickup). The information made available to Pinyon has been added to Table 1. Missing data will be gathered during the Q4 2022 sampling event and included in the Annual Report.

The following figures are provided for reference and data presentation:

- Figure 1 – Site Vicinity Map
- Figure 2 – Quarterly Groundwater Contour Map – Third Quarter 2022
- Figure 3 – Perchlorate Detections in Groundwater – Third Quarter 2022
- Figure 4 – VOC Detections in Groundwater – Third Quarter 2022

2.1 Estimated Groundwater Flow Direction

The groundwater gradient was measured between wells TTU-15 (1,320.06 feet above mean sea level (ft-msl)) and TTU-10 (1,139.93 ft-msl) at approximately 0.10 ft/ft (feet per foot). This gradient is similar to the 0.10 ft/ft reported during the Q2 2022 groundwater sampling event. The groundwater gradient suggests a westerly flow direction (Figure 2).

2.2 Groundwater Laboratory Results

The perchlorate data indicates results from 22 of the 25 wells sampled contained concentrations above the laboratory detection limit. These data are generally consistent with Q2 2022. Of 22 detectable concentrations, 6 samples were below the Arizona Department of Environmental Quality (ADEQ) Health Based Guidance

Level (HBGL) of 14 micro grams per liter ($\mu\text{g/L}$). Sixteen sampled wells exceeded the HBGL with the highest concentration of 913,000 $\mu\text{g/L}$ measured in TTU-16.

The TCE data indicates that 16 of the 25 samples contained concentrations above the laboratory detection limit. Of those TCE concentrations, 14 exceeded the 5 $\mu\text{g/L}$ Arizona Aquifer Water Quality Standard (AWQS). The highest TCE concentration (13,200 $\mu\text{g/L}$) was measured in TTU-20.

The 1,4-dioxane data indicates 15 of 25 samples contained concentrations above the laboratory detection limit, 14 of which also exceeded the 3.5 $\mu\text{g/L}$ interim screening level. The highest concentration (3,820 $\mu\text{g/L}$) was measured in TTU-16.

The 1,1-dichloroethene (DCE) data indicates results from 14 of the 25 samples contained concentrations above the laboratory detection limit. Concentrations measured in 10 wells exceeded the 7 $\mu\text{g/L}$ AWQS. The highest 1,1 DCE concentration (2,610 $\mu\text{g/L}$) was measured in TTU-20.

As outlined in the TTU SAP, notification and resampling must be made if the following TLs are exceeded:

- For PF-2, if perchlorate exceeds 3.2 $\mu\text{g/L}$.
- For TTU-6, if 1,4-dioxane exceeds 3.5 $\mu\text{g/L}$ and/or other VOCs reach 50% of the AWQS.
- For TTU-1, TTU-2, TTU-3, TTU-4, TTU-6, TTU-7, TTU-8, TTU-9a, TTU-10, TTU-14, PF-1, and PF-2, if an order-of-magnitude increase in the concentration¹ of a COPC that was previously measured at a concentration exceeding the project screening level (e.g., AWQS).

With respect to the Q3 2022 sampling results, no TLs were exceeded with the possible exception of TTU-10, as discussed in section 1.1.¹

2.3 Groundwater Concentration Versus Time

Concentration and groundwater elevation versus time plots for TCE, perchlorate, and 1,4-dioxane are presented in Attachment 4.

2.4 Discussion

Based on the Q3 2022 groundwater monitoring results, no TL trigger conditions were encountered for the contingency plan wells with the possible exception of TTU-10, as discussed in section 1.1. These conditions will continue to be tracked during future sampling events. Using definition of order of magnitude changes established in Section 2.2, Footnote 1, no order of magnitude concentration increases were observed between the Q2 and Q3 of 2022 for any of the COPCs. Conditions in all wells will continue to be evaluated during future monitoring events and a detailed evaluation of the data, including data trends and an evaluation of the interim remedial measure will be provided in the Q4/Annual 2022 Report.

¹ To establish consistency regarding the trigger or action levels (TL or AL) based on concentration changes for different compounds, Pinyon offers the following definition for a concentration change of one order of magnitude or more: If the current concentration is greater than 10 times the average of the most recent 3 quarterly sampling events (the baseline) for a COPC, an increase of more than one order of magnitude has occurred. Similarly, if the current concentration of a COPC is less than 1/10th of the baseline concentration, a concentration decrease of more than one order of magnitude has occurred. For results where no detectable concentration is reported one-half of the method detection limit will be used for calculation of the average.

2.5 Data Validation


A Tier IA data validation of the laboratory results according to EPA guidance and the laboratory results are qualified as usable for meeting project objectives. A data validation memorandum is provided in Attachment 5.

3. CLOSING

Overall, the Q3 2022 groundwater monitoring data indicates primarily stable conditions associated with the site. The upcoming evaluation during the Q4 annual report of long- and short-term concentration trends, as well as the evaluation of the interim remedial measures, will provide a greater understanding of current plume containment and the associated risks to area groundwater production wells.

Sincerely,
Pinyon Environmental, Inc.


Jeremy Musson
Principal


Arianne Godwin, P.E. (AZ# 67982)
Technical Group Manager
Site Characterization and Remediation



Copies to: Angel Soto, Nammo Defense Systems, Inc. (electronic)
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Tables

Table 1 – Former Thermal Treatment Unit 2022 Groundwater Monitoring Well Network
Table 2 – Groundwater Elevation – Third Quarter 2022
Table 3 – Summary of Detected VOC Concentrations – Third Quarter 2022
Table 4 – Summary of Perchlorate Concentrations – Third Quarter 2022
Table 5 – Historical 1,4-Dioxane and TCE Concentrations

Figures

Figure 1 – Site Vicinity Map
Figure 2 – Groundwater Elevations and Contours – Third Quarter 2022
Figure 3 – Perchlorate Detections in Groundwater – Third Quarter 2022
Figure 4 – VOC Detections in Groundwater – Third Quarter 2022

Attachments

Attachment 1 – Drilling Logs and Well Construction Diagrams
Attachment 2 – Field Notes
Attachment 3 – Laboratory Analytical Reports
Attachment 4 – Concentration and Groundwater Elevation versus Time Plots
Attachment 5 – Data Validation Memo

Tables

**TABLE I:
FORMER THERMAL TREATMENT UNIT
2022 GROUNDWATER WELL NETWORK
NAMMO DEFENSE SYSTEMS INC.
MESA, ARIZONA**

| Well ID | Install Date | Latitude | Longitude | Survey Date | Survey Coordinate Datum | Measuring Point Elevation Top of Casing (ft asml) | Ground Surface Elevation (ft asml) | Well Stickup Height (ft) | ADWR Number | Well Type/Use | Well Name/ Owner | Well Owner Information | Well Const | Well Diameter (in) | Screen Interval (ft bgs) | Casing Depth (ft bgs) | Boring Depth (ft bgs) |
|-------------------------------|--------------|-------------|---------------|-------------|-------------------------|---|------------------------------------|--------------------------|-------------|---------------|----------------------------|-------------------------------|---------------|--------------------|--------------------------|-----------------------|-----------------------|
| Plume Monitoring Wells | | | | | | | | | | | | | | | | | |
| TTU-3 | 10/18/2013 | 33 29 57.98 | -111 43 00.91 | NP | NAVD 88 | 1308.03 | 1305.50 | 2.53 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85279 | PVC | 4 | 78.1-138.1 | 143.6 | 180 |
| TTU-4 | 10/25/2013 | 33 30 01.65 | -111 42 59.09 | NP | NAVD 88 | 1305.12 | 1302.50 | 2.62 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85280 | PVC | 4 | 39.5-99.5 | 104.9 | 180 |
| TTU-5 | 9/20/2014 | 33 29 52.48 | -111 42 58.40 | NP | NAVD 88 | 1314.93 | 1312.30 | 2.63 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85281 | PVC | 4 | 59.5-164.5 | 169.5 | 174 |
| TTU-6 | 10/7/2014 | 33 29 57.57 | -111 43 04.79 | NP | NAVD 88 | 1300.84 | 1299.40 | 1.44 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85282 | PVC | 4 | 110-175 | 180 | 185 |
| TTU-7 | 10/8/2014 | 33 29 57.85 | -111 43 05.18 | NP | NAVD 88 | 1301.84 | 1299.30 | 2.54 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85282 | Steel | 8.5 | 282-410 | 282 | 410 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-8 | 4/18/2016 | 33 30 01.91 | -111 43 05.31 | NP | NAVD 88 | 1310.23 | 1307.60 | 2.63 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85282 | PVC | 4 | 135-185 | 190 | 204 |
| TTU-9A | 6/16/2016 | 33 30 04.61 | -111 42 51.19 | NP | NAVD 88 | 1318.04 | 1316.00 | 2.04 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85282 | PVC | 4 | 24-99 | 104 | 105 |
| TTU-10 | 4/18/2016 | 33 29 54.60 | -111 43 07.90 | NP | NAVD 88 | 1302.42 | 1299.80 | 2.62 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85282 | PVC | 4 | 115-180 | 185 | 204 |
| TTU-12 | 7/19/2018 | 33 29 56.03 | -111 42 58.38 | NP | NP | 1312.21 | NP | NP | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85282 | Steel | 5.5 | 30-180 | 30 | 180 |
| | | | | | | | | | | | | | Open Borehole | 5 | | None | |
| TTU-13 | 7/20/2018 | 33 29 58.99 | -111 42 56.85 | NP | NP | 1310.79 | NP | NP | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85283 | Steel | 5.5 | 30-80 | 30 | 80 |
| | | | | | | | | | | | | | Open Borehole | 5 | | None | |
| TTU-14 | 7/19/2018 | 33 29 57.20 | -111 42 57.46 | NP | NP | 1319.30 | 1316.80 | 2.50 | N/A | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85284 | Steel | 5.5 | 45-100 | 45 | 100 |
| | | | | | | | | | | | | | Open Borehole | 5 | | None | |
| TTU-15 | 1/25/2018 | 33 29 56.78 | -111 42 47.03 | NP | NP | 1350.85 | NP | NP | 55-228014 | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85285 | Steel | 5 | 10-100 | 10 | 100 |
| | | | | | | | | | | | | | Open Borehole | 4.5 | | None | |
| TTU-16 | 1/28/2020 | 33 29 56.18 | -111 42 49.59 | NP | NP | 1338.55 | NP | NP | 55-231730 | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85286 | Steel | 8 | 20-95.6 | 20 | 95.6 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-17 | 1/28/2020 | 33 29 58.61 | -111 42 45.69 | NP | NP | 1347.49 | NP | NP | 55-231735 | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85287 | Steel | 8 | 20-101 | 20 | 101 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-18 | 1/25/2020 | 33 29 47.20 | -111 42 58.10 | NP | NP | 1320.25 | NP | NP | 55-231737 | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85288 | Steel | 8 | 21-140 | 21 | 140 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-20 | 9/24/2020 | 33 29 55.17 | -111 42 51.58 | NP | NP | 1336.90 | NP | NP | 55-232968 | Monitoring | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85288 | PVC | 4 | 25-95 | 95 | 100 |

**TABLE I:
FORMER THERMAL TREATMENT UNIT
2022 GROUNDWATER WELL NETWORK
NAMMO DEFENSE SYSTEMS INC.
MESA, ARIZONA**

| Well ID | Install Date | Latitude | Longitude | Survey Date | Survey Coordinate Datum | Measuring Point Elevation Top of Casing (ft asml) | Ground Surface Elevation (ft asml) | Well Stickup Height (ft) | ADWR Number | Well Type/Use | Well Name/ Owner | Well Owner Information | Well Const | Well Diameter (in) | Screen Interval (ft bgs) | Casing Depth (ft bgs) | Boring Depth (ft bgs) |
|---------------------------------------|--------------|-------------|---------------|-------------|-------------------------|---|------------------------------------|--------------------------|-------------|------------------------------------|----------------------------|---------------------------------|---------------|--------------------|--------------------------|-----------------------|-----------------------|
| Extraction and Injection Wells | | | | | | | | | | | | | | | | | |
| TTU-1 | 6/6/2012 | 33 29 59.14 | -111 42 56.27 | NP | NAVD 88 | 1312.73 | 1309.70 | 3.03 | 55-914440 | Extraction | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85277 | PVC | 4 | 30-70 | 75 | 200 |
| TTU-2 | 10/17/2013 | 33 29 55.85 | -111 42 57.85 | NP | NAVD 88 | 1314.44 | 1311.80 | 2.64 | N/A | Extraction | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85278 | PVC | 4 | 49.4-179.6 | 185 | 187.5 |
| TTU-11 | 9/11/2015 | 33 29 55.28 | -111 42 51.47 | NP | NAVD 88 | 1339.20 | 1336.60 | 2.60 | 55-918534 | Extraction/ Injection ¹ | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85282 | PVC | 4 | 24.1-89.1 | 94 | 136 |
| TTU-19 | 9/24/2020 | 33 29 55.25 | -111 42 51.50 | NP | NP | 1336.67 | NP | NP | 55-232969 | Monitoring/ Injection ² | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85288 | PVC | 4 | 25-95 | 95 | 96 |
| TTU-EX-1 | 1/25/2020 | 33 29 58.42 | -111 42 52.55 | NP | NP | 1321.69 | NP | NP | 55-231733 | Extraction | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85288 | Steel | 8 | 19-110.7 | 19 | 110.7 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-EX-2 | 1/23/2020 | 33 29 57.61 | -111 42 53.79 | NP | NP | 1316.40 | NP | NP | 55-231734 | Extraction | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85289 | Steel | 8 | 20-110 | 20 | 110 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-EX-3 | 1/24/2020 | 33 29 56.29 | -111 42 54.12 | NP | NP | 1316.85 | NP | NP | 55-231731 | Extraction | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85290 | Steel | 8 | 20-101.45 | 20 | 111 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-EX-4 | 1/24/2020 | 33 29 55.46 | -111 42 54.39 | NP | NP | 1319.96 | NP | NP | 55-231732 | Extraction | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85291 | Steel | 8 | 20-110.7 | 20 | 110.7 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| TTU-EX-5 | 1/24/2020 | 33 29 54.68 | -111 42 54.62 | NP | NP | 1319.50 | NP | NP | 55-231736 | Extraction | Nammo Defense Systems Inc. | P.O. Box 34299 Mesa, AZ 85292 | Steel | 8 | 20-110.8 | 20 | 110.8 |
| | | | | | | | | | | | | | Open Borehole | 8 | | None | |
| Production Wells | | | | | | | | | | | | | | | | | |
| PF-1 | NP | 33 29 56.60 | -111 43 09.75 | NP | NP | 1295.99 | NP | NP | N/A | Production | University of Washington | 4202 N Higley Rd Mesa, AZ 85215 | Unknown | Unknown | Unknown | Unknown | Unknown |
| PF-2 | 3/27/2013 | 33 29 56.65 | -111 43 09.96 | NP | NP | 1296.35 | NP | NP | N/A | Production | University of Washington | 4202 N Higley Rd Mesa, AZ 85215 | Steel | 6 5/8 | 300-400 | 400 | 400 |

Notes:

ft asml = feet above mean sea level (NAVD88)
ADWR = Arizona Department of Water Resources
Const = construction
in = inches

N/A = Not applicable
PVC = polyvinyl chloride
ft bgs = feet below ground surface

TTU = Thermal Treatment Unit
EX = Extraction
PF = Primate Facility

NP = Not Provided
 Drill Log TOC Different from Original
Drill Log TOC listed

- (1) - TTU-11 was converted from an extraction well to an injection well in October 2020 for a In-Situ Bioremediation Pilot Test.
(2) - TTU-19 was converted from a monitoring well to an injection well in February 2021 for an In-Situ Bioremediation Pilot Test
TTU-EX-1 through TTU-EX-5 are not currently operating as extraction wells. TTU-11 and TTU-19 are not currently operating as injection wells.

**TABLE 2: GROUNDWATER
ELEVATIONS - THIRD QUARTER 2022**
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.

| Location | Northing (intl ft) | Easting (intl ft) | Top of Casing Elevation (ft asml) | Date Measured | Depth to Water (ft btoc) | Groundwater Elevation (ft asml) |
|----------|-----------------------|----------------------|---|------------------|--------------------------------|---------------------------------------|
| TTU-1 | 909420.734 | 761281.203 | 1312.73 | 10/11/2022 | 37.03 | 1,275.70 |
| TTU-2 | 909087.852 | 761148.265 | 1314.44 | 10/10/2022 | NC | N/A |
| TTU-3 | 909303.363 | 760888.204 | 1308.03 | 9/9/2022 | 90.65 | 1,217.38 |
| TTU-4 | 909673.680 | 761041.975 | 1305.12 | 9/9/2022 | 53.05 | 1,252.07 |
| TTU-5 | 908747.636 | 761102.227 | 1314.93 | 9/8/2022 | 80.84 | 1,234.09 |
| TTU-6 | 909260.820 | 760560.096 | 1300.84 | 9/9/2022 | 128.69 | 1,172.15 |
| TTU-7 | 909287.611 | 760527.269 | 1301.84 | 9/9/2022 | 133.87 | 1,167.97 |
| TTU-8 | 909699.266 | 760514.908 | 1310.23 | 9/9/2022 | 151.60 | 1,158.63 |
| TTU-9A | 909974.490 | 761710.151 | 1318.04 | 9/8/2022 | 28.34 | 1,289.70 |
| TTU-10 | 908960.114 | 760297.013 | 1302.42 | 9/9/2022 | 162.49 | 1,139.93 |
| TTU-11 | 909029.758 | 761706.470 | 1339.20 | 9/3/2022 | 31.49 | 1,307.71 |
| TTU-12 | 909105.990 | 761103.280 | 1312.21 | 9/9/2022 | 73.27 | 1,238.94 |
| TTU-13 | 909405.920 | 761232.180 | 1310.79 | 9/8/2022 | 34.81 | 1,275.98 |
| TTU-14 | 909224.260 | 761181.230 | 1319.30 | 9/9/2022 | 58.74 | 1,260.56 |
| TTU-15 | 909185.100 | 762065.910 | 1350.85 | 9/8/2022 | 30.79 | 1,320.06 |
| TTU-16 | 909124.980 | 761848.851 | 1338.55 | 9/8/2022 | 19.13 | 1,319.42 |
| TTU-17 | 909370.903 | 762179.168 | 1347.49 | 9/8/2022 | 37.89 | 1,309.60 |
| TTU-18 | 908215.829 | 761130.011 | 1320.25 | NM | Assumed DRY | |
| TTU-19 | 909030.750 | 761687.700 | 1336.67 | 9/3/2022 | 29.49 | 1,307.18 |
| TTU-20 | 909022.530 | 761681.990 | 1336.90 | 9/3/2022 | 31.21 | 1,305.69 |
| TTU-EX-1 | 909350.574 | 761597.823 | 1321.69 | 9/8/2022 | 16.32 | 1,305.37 |
| TTU-EX-2 | 909268.187 | 761493.214 | 1316.40 | 9/8/2022 | 23.66 | 1,292.74 |
| TTU-EX-3 | 909134.941 | 761465.507 | 1316.85 | 9/8/2022 | 36.09 | 1,280.76 |
| TTU-EX-4 | 909051.298 | 761442.876 | 1319.96 | 9/8/2022 | 41.95 | 1,278.01 |
| TTU-EX-5 | 908971.770 | 761423.325 | 1319.50 | 9/8/2022 | 40.92 | 1,278.58 |
| PF-1 | 909161.578 | 760140.434 | 1295.99 | N/A | N/A | N/A |
| PF-2 | 909166.890 | 760122.250 | 1296.35 | N/A | N/A | N/A |

Notes:

intl ft - international foot

ft asml - feet above mean sea level

ft btoc - feet below top of casing

NM - not measured

NC - not collected due to difficulty in obtaining accurate measurement - measuring tape was sticking to well sidewall

N/A - not applicable

**TABLE 3: SUMMARY OF PERCHLORATE
CONCENTRATIONS - THIRD QUARTER 2022**
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.

| Location | Sample Depth (ft btoc) | Sample Date | Sample Type | Perchlorate | | |
|--------------------|---------------------------|-------------|-------------|----------------------------------|------|------|
| | | | | EPA Method | 314 | 6850 |
| | | | | Units | µg/L | |
| | | | | HBGL | 14 | |
| | | | | Concentration | | |
| TTU-1 DUP-01 | 50 | 10/11/2022 | Primary | 11,300 | -- | |
| | | | Duplicate | 11,200 | -- | |
| TTU-2 | 114 | 10/10/2022 | Primary | 157,000 | -- | |
| TTU-3 | 108 | 9/9/2022 | Primary | 54.8 | -- | |
| TTU-4 | 57 | 9/9/2022 | Primary | 2.57 ^J | -- | |
| TTU-5 | 110 | 9/9/2022 | Primary | 1.25 ^J | -- | |
| TTU-6 | 143 | 9/9/2022 | Primary | 42.1 | -- | |
| TTU-7 | 345 | 9/9/2022 | Primary | 1.04 ^J | -- | |
| TTU-8 DUP-03 | 164 | 9/9/2022 | Primary | <4.00 | -- | |
| | | | Duplicate | 0.614 ^J | -- | |
| TTU-9A | 61 | 9/8/2022 | Primary | 6.57 | -- | |
| TTU-10 | 165 | 9/9/2022 | Primary | 37.0 | -- | |
| TTU-11 | 73 | 9/3/2022 | Primary | <4.00 | -- | |
| TTU-12 | 82 | 9/9/2022 | Primary | 132,000 | -- | |
| TTU-13 | 51 | 9/8/2022 | Primary | 36,900 | -- | |
| TTU-14 | 64 | 9/9/2022 | Primary | 143,000 | -- | |
| TTU-15 | 75 | 9/8/2022 | Primary | 5,510 | -- | |
| TTU-16 | 80 | 9/8/2022 | Primary | 913,000 | -- | |
| TTU-17 | 80 | 9/8/2022 | Primary | <4.00 | -- | |
| TTU-19 | 73 | 9/3/2022 | Primary | 67.6 ^{J, J3, J5} | -- | |
| | | | Duplicate | 528,000 | -- | |
| TTU-20 DUP-01 | 73 | 9/3/2022 | Primary | 528,000 | -- | |
| | | | Duplicate | 537,000 | -- | |
| TTU-EX-1 | 69 | 9/8/2022 | Primary | 86,300 | -- | |
| TTU-EX-2 | 74 | 9/8/2022 | Primary | 19,300 | -- | |
| TTU-EX-3 | 76 | 9/8/2022 | Primary | 406,000 | -- | |
| TTU-EX-4 | 77 | 9/8/2022 | Primary | 88,200 | -- | |
| TTU-EX-5 DUP-02 | 80 | 9/8/2022 | Primary | <4.00 | -- | |
| | | | Duplicate | <4.00 | -- | |
| PF-2 | 400 | 9/9/2022 | Primary | -- | 0.65 | |

Notes:

ft btoc - feet below top of casing

µg/L - micrograms per liter

EPA - United States Environmental Protection Agency

HBGL - Health-Based Guidance Level

<Grey - Concentration is below laboratory reporting limits

--- - Not reported

BOLD - Concentration exceeds its respective HBGL

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

J - The identification of the analyte is acceptable; the reported value is an estimate.

J3 - The associated batch QC was outside the established quality control range for precision.

J5 - The sample matrix interfered with the ability to make any accurate determination; spike value is high.

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| PF-1 | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| PF-2 | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Duplicate | 9/16/2019 | <3 | <1 |
| | Primary | 12/23/2019 | <3 | <1 |
| | Primary | 3/13/2020 | <3 | <1 |
| | Primary | 12/4/2020 | <3 | <1 |
| | Duplicate | 12/4/2020 | <3 | <1 |
| | Primary | 3/29/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Primary | 8/6/2021 | <3 | <1 |
| | Primary | 11/18/2021 | <3 | <1 |
| | Primary | 3/31/2022 | <3 | <1 ^{R7} |
| | Duplicate | 3/31/2022 | <3 | <1 ^{R7} |
| | Primary | 6/21/2022 | <3 | <1 ^{J3} |
| | Duplicate | 6/21/2022 | <3 | <1 |
| | Primary | 9/9/2022 | <3 | <1 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|--------------------|--------------------|-------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-I | Primary | 11/18/2014 | -- | 6.10 |
| | Primary | 12/23/2014 | -- | 8.80 |
| | Primary | 2/5/2015 | 26.0 | 10.0 |
| | Primary | 5/18/2015 | 20.0 | 6.10 |
| | Primary | 9/9/2015 | 17.0 | 5.20 |
| | Primary | 11/23/2015 | 14.0 | 5.10 |
| | Primary | 2/25/2016 | 11.0 | 4.60 |
| | Primary | 6/1/2016 | 12.7 | 3.03 |
| | Primary | 8/18/2016 | 11.0 | 3.70 |
| | Primary | 11/22/2016 | 27.0 | 5.50 |
| | Primary | 2/22/2017 | 18.4 | 5.50 |
| | Primary | 5/23/2017 | 14.1 | 7.20 |
| | Primary | 8/29/2017 | 11.0 | 1.40 |
| | Primary | 11/27/2017 | 17.7 | 7.10 |
| | Duplicate | 11/27/2017 | 18.1 | 7.20 |
| | Primary | 3/27/2018 | 17.1 | 4.60 |
| | Primary | 9/12/2018 | 31.8 | 11.20 |
| | Duplicate | 9/12/2018 | 29.1 | 12.40 |
| | Primary | 12/4/2018 | 7.30 | 4.40 |
| | Primary | 9/16/2019 | 13.9 | 5.72 |
| | Duplicate | 9/16/2019 | 10.8 | 4.85 |
| | Primary | 12/20/2019 | 5.06 | 5.19 |
| | Primary | 3/12/2020 | 4.63 ^J | 3.91 |
| | Primary | 6/18/2020 | 17.1 | 7.60 |
| | Primary | 7/20/2020 | 3.71 | 6.09 |
| | Primary | 12/2/2020 | 29.9 | 1.33 |
| | Primary | 3/30/2021 | 18.9 ^J | 6.40 |
| | Primary | 5/6/2021 | 22.0 | 17.1 ^J |
| | Primary | 7/29/2021 | 37.7 | 14.3 |
| | Primary | 12/22/2021 | 11.1 | 8.82 |
| | Primary | 3/26/2022 | 18.4 | 3.72 |
| | Duplicate | 3/26/2022 | 19.9 | 4.46 |
| Primary | 6/16/2022 | 17.5 ^{T8} | 4.42 | |
| Duplicate | 6/16/2022 | 35.5 | 4.12 | |
| Primary | 10/11/2022 | 15.1 | 5.13 | |
| Duplicate | 10/11/2022 | 14.5 | 5.85 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-------------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-2 | Primary | 11/18/2014 | -- | 370 |
| | Primary | 12/23/2014 | -- | 280 |
| | Primary | 2/5/2015 | 170 | 280 |
| | Primary | 5/18/2015 | 160 | 190 |
| | Primary | 9/9/2015 | 170 | 200 |
| | Primary | 11/23/2015 | 140 | 150 |
| | Primary | 2/25/2016 | 110 | 150 |
| | Primary | 6/1/2016 | 88.2 | 50.3 |
| | Primary | 8/18/2016 | 150 | 360 |
| | Primary | 11/22/2016 | 260 | 780 |
| | Primary | 2/22/2017 | 244 | 727 |
| | Primary | 5/23/2017 | 222 | 880 |
| | Primary | 8/29/2017 | 241 | 93.2 |
| | Duplicate | 8/29/2017 | 227 | 89.7 |
| | Primary | 11/27/2017 | 235 | 353 |
| | Primary | 3/27/2018 | 219 | 236 |
| | Duplicate | 3/27/2018 | 152 | 274 |
| | Primary | 6/28/2018 | 246 | 498 |
| | Primary | 9/10/2018 | 246 | 433 |
| | Primary | 12/4/2018 | 232 | 288 |
| | Primary | 3/25/2019 | 313 | 364 |
| | Primary | 9/16/2019 | 295 | 475 |
| | Primary | 12/20/2019 | 211 | 711 |
| | Duplicate | 12/20/2019 | 215 | 742 |
| | Primary | 3/12/2020 | 227 ^J | 511 |
| | Primary | 6/18/2020 | 292 | 824 |
| | Primary | 7/20/2020 | 156 | 959 |
| | Primary | 12/2/2020 | 329 | 785 |
| | Primary | 3/30/2021 | 196 ^J | 656 |
| | Duplicate | 3/30/2021 | 244 ^J | 720 |
| | Primary | 5/6/2021 | 316 | 683 |
| | Primary | 7/29/2021 | 373 | 654 |
| | Primary | 12/22/2021 | 280 | 627 |
| Duplicate | 12/22/2021 | 281 | 653 | |
| Primary | 3/26/2022 | 251 | 823 | |
| Primary | 6/16/2022 | 246 ^{T8} | 443 | |
| Primary | 10/10/2022 | 170 | 596 ^V | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|------------------|--------------------|--------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-3 | Primary | 6/1/2016 | 1.24 | -- |
| | Primary | 5/23/2017 | -- | 2.50 |
| | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Primary | 6/7/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/23/2019 | <3 | <1 |
| | Primary | 3/13/2020 | <3 | <1 |
| | Primary | 6/18/2020 | <3 | <1 |
| | Primary | 7/21/2020 | <3 | <1 |
| | Primary | 12/4/2020 | <3 | <1 |
| | Primary | 3/29/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Duplicate | 5/6/2021 | <3 | <1 |
| | Primary | 7/30/2021 | <3 | <1 |
| | Primary | 11/18/2021 | <3 | <1 |
| | Primary | 3/22/2022 | <3 | 0.454 ^J |
| Primary | 6/14/2022 | <3 ^{J3} | <1 ^{J3} | |
| Primary | 9/9/2022 | <3 | <1 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-4 | Primary | 5/23/2017 | -- | 0.310 |
| | Primary | 3/27/2018 | <3 | < 0.40 |
| | Duplicate | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Duplicate | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Duplicate | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Duplicate | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Primary | 6/7/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/23/2019 | <3 | <1 |
| | Primary | 3/13/2020 | <3 | <1 |
| | Primary | 6/18/2020 | <3 | <1 |
| | Primary | 7/21/2020 | <3 | <1 |
| | Duplicate | 7/21/2020 | <3 | <1 |
| | Primary | 12/4/2020 | <3 | <1 |
| | Primary | 3/29/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Duplicate | 5/6/2021 | <3 | <1 |
| | Primary | 7/30/2021 | <3 | <1 |
| | Duplicate | 7/30/2021 | <3 | <1 |
| | Primary | 11/18/2021 | <3 | <1 |
| | Primary | 3/22/2022 | <3 | <1 |
| | Duplicate | 3/22/2022 | 2.59 | <1 |
| | Primary | 6/14/2022 | 11.1 | <1 ^{J3} |
| | Primary | 7/21/2022 | <3 | NA |
| | Duplicate | 7/21/2022 | <3 | NA |
| | Primary | 9/9/2022 | <3 | <1 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|--------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-5 | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Primary | 6/7/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/20/2019 | <3 | <1 |
| | Primary | 3/12/2020 | <3 | <1 |
| | Primary | 6/17/2020 | <3 | <1 |
| | Primary | 7/20/2020 | <3 | <1 |
| | Primary | 12/2/2020 | <3 | 0.877 ^J |
| | Primary | 3/30/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Primary | 7/29/2021 | <3 | <1 |
| | Primary | 11/17/2021 | <3 | <1 |
| | Primary | 3/21/2022 | <3 | 0.640 ^J |
| | Primary | 6/13/2022 | 130 | <1 |
| | Primary | 7/21/2022 | <3 | NS |
| | Primary | 9/9/2022 | <3 | <1 |

TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
 FORMER THERMAL TREATMENT UNIT
 NAMMO DEFENSE SYSTEMS INC.

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-6 | Primary | 8/29/2017 | -- | 0.380 |
| | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Primary | 6/7/2019 | <3 | <1 |
| | Duplicate | 6/7/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/23/2019 | <3 | <1 |
| | Primary | 3/13/2020 | <3 | <1 |
| | Primary | 6/18/2020 | <3 | <1 |
| | Primary | 7/21/2020 | <3 | <1 |
| | Primary | 12/4/2020 | <3 | <1 |
| | Primary | 3/29/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Primary | 7/30/2021 | <3 | <1 |
| | Primary | 11/18/2021 | <3 | <1 |
| | Primary | 3/22/2022 | <3 | <1 |
| | Primary | 6/14/2022 | <3 ^{J3} | <1 |
| Primary | 9/9/2022 | <3 | <1 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-7 | Primary | 8/18/2016 | 2.50 | -- |
| | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Duplicate | 3/26/2019 | <3 | <1 |
| | Primary | 6/7/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/23/2019 | <3 | <1 |
| | Primary | 3/13/2020 | <3 | <1 |
| | Primary | 6/18/2020 | <3 | <1 |
| | Primary | 7/21/2020 | <3 | <1 |
| | Primary | 12/4/2020 | <3 | <1 |
| | Primary | 3/29/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Primary | 7/30/2021 | <3 | <1 |
| | Primary | 11/18/2021 | <3 | <1 |
| | Primary | 3/22/2022 | <3 | <1 |
| | Primary | 6/14/2022 | <3 ^{J3} | <1 ^{J3} |
| Primary | 9/9/2022 | <3 | <1 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-8 | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Primary | 6/7/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/23/2019 | <3 | <1 |
| | Primary | 3/16/2020 | <3 | <1 |
| | Duplicate | 3/16/2020 | <3 | <1 |
| | Primary | 6/18/2020 | <3 | <1 |
| | Duplicate | 6/18/2020 | <3 | <1 |
| | Primary | 7/21/2020 | <3 | <1 |
| | Primary | 12/4/2020 | <3 | <1 |
| | Primary | 3/29/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Primary | 7/30/2021 | <3 | <1 |
| | Primary | 11/18/2021 | <3 | <1 |
| | Primary | 3/22/2022 | <3 | <1 |
| | Primary | 6/14/2022 | <3 | <1 |
| | Primary | 9/9/2022 | <3 | <1 |
| | Duplicate | 9/9/2022 | <3 | <1 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|-------------------------|-------------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-9A | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | <1 |
| | Primary | 6/7/2019 | <3 | <1 |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/20/2019 | 1.01 ^J | <1 |
| | Primary | 3/12/2020 | 11.9^J | <1 |
| | Primary | 6/17/2020 | <3 | <1 |
| | Primary | 7/20/2020 | <3 | <1 |
| | Primary | 12/2/2020 | <3 | 6.46^J |
| | Primary | 3/30/2021 | <3 | 7.53 |
| | Primary | 5/6/2021 | <3 | 4.76 |
| | Primary | 7/29/2021 | <3 | 2.75 |
| | Primary | 11/17/2021 | <3 | 0.911 ^J |
| | Duplicate | 11/17/2021 | <3 | 0.985 ^J |
| | Primary | 3/22/2022 | <3 | 0.944 ^J |
| | Primary | 6/13/2022 | 4.82 | <1 |
| | Primary | 7/21/2022 | <3 | NS |
| Primary | 9/8/2022 | <3 | <1 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-10 | Primary | 3/27/2018 | <3 | < 0.40 |
| | Primary | 6/28/2018 | <3 | < 0.40 |
| | Primary | 9/10/2018 | <3 | < 0.40 |
| | Primary | 12/10/2018 | <3 | < 0.40 |
| | Primary | 3/26/2019 | <3 | < 1.0 |
| | Primary | 6/27/2019 | <3 | NS |
| | Primary | 9/16/2019 | <3 | <1 |
| | Primary | 12/23/2019 | <3 | <1 |
| | Primary | 3/13/2020 | <3 | <1 |
| | Primary | 6/18/2020 | <3 | <1 |
| | Primary | 7/21/2020 | <3 | <1 |
| | Primary | 12/4/2020 | <3 | <1 |
| | Primary | 3/29/2021 | <3 | <1 |
| | Primary | 5/6/2021 | <3 | <1 |
| | Primary | 8/6/2021 | <3 | <1 |
| | Primary | 11/18/2021 | <3 | <1 |
| | Primary | 3/22/2022 | 1.58 | <1 |
| | Primary | 6/14/2022 | <3 ^{J3} | <1 |
| | Duplicate | 6/14/2022 | <3 ^{J3} | <1 |
| | Primary | 9/9/2022 | <3 | <1 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-11 | Primary | 9/23/2015 | 380 | 3,100 |
| | Duplicate | 9/23/2015 | 400 | 3,100 |
| | Primary | 11/23/2015 | 270 | 2,900 |
| | Primary | 2/25/2016 | 250 | 2,400 |
| | Primary | 6/1/2016 | 282 | 1,600 |
| | Primary | 8/18/2016 | 240 | 1,800 |
| | Primary | 11/22/2016 | 310 | 2,500 |
| | Duplicate | 11/22/2016 | 340 | 2,400 |
| | Primary | 2/22/2017 | 222 | 2,010 |
| | Duplicate | 2/22/2017 | 224 | 2,080 |
| | Primary | 5/23/2017 | 201 | 1,560 |
| | Duplicate | 5/23/2017 | 192 | 1,710 |
| | Primary | 8/29/2017 | 1,450 | 807 |
| | Primary | 3/27/2018 | 671 | 461 |
| | Primary | 9/12/2018 | 1,060 | 4,650 |
| | Primary | 12/4/2018 | 1,820 | 14,500 |
| | Duplicate | 12/4/2018 | 1,840 | 14,800 |
| | Primary | 9/16/2019 | 1,510 | 11,200 |
| | Primary | 12/20/2019 | 855 ^J | 11,500 |
| | Duplicate | 12/20/2019 | 907 ^J | 9,400 |
| | Primary | 3/12/2020 | 863 | 6,780 |
| | Primary | 6/18/2020 | 1,570 | 15,000 |
| | Primary | 7/20/2020 | 977 | 17,600 |
| Primary | 6/20/2022 | <3 | 56.3 | |
| Primary | 9/3/2022 | <3 | 58.2 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-12 | Primary | 8/29/2017 | 85.7 | 335 |
| | Primary | 11/27/2017 | 84.1 | 301 |
| | Primary | 3/27/2018 | 85.5 | 484 |
| | Primary | 6/28/2018 | 108 | 339 |
| | Primary | 9/10/2018 | 91 | 460 |
| | Primary | 12/10/2018 | 107 | 454 |
| | Primary | 3/25/2019 | 136 | 176 |
| | Primary | 6/7/2019 | 120 | 507 |
| | Primary | 9/16/2019 | 160 | 543 |
| | Primary | 12/20/2019 | 106 | 567 |
| | Primary | 3/12/2020 | 94.8 ^J | 407 |
| | Primary | 6/17/2020 | 184 | 471 |
| | Primary | 7/20/2020 | 82.2 | 547 |
| | Primary | 7/29/2021 | 176 | 466 |
| | Primary | 11/18/2021 | 133 | 624 |
| | Duplicate | 11/18/2021 | 141 | 617 |
| | Primary | 3/22/2022 | 149 | 538 |
| | Primary | 6/13/2022 | 170 | 487 |
| Primary | 9/9/2022 | 119 | 529 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|-------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-13 | Primary | 8/29/2017 | 4.00 | 2.60 |
| | Primary | 11/27/2017 | 14.1 | 5.70 |
| | Primary | 3/27/2018 | 18.3 | 7.30 |
| | Primary | 6/28/2018 | 33.9 | 12.6 |
| | Primary | 9/10/2018 | 47.3 | 24.2 |
| | Primary | 12/10/2018 | 45.2 | 20.1 |
| | Primary | 3/25/2019 | 55.8 | 21.7 |
| | Primary | 6/7/2019 | 39.9 | 22.6 |
| | Primary | 9/16/2019 | 58.0 | 18.3 |
| | Primary | 12/20/2019 | 40.2 | 17.0 |
| | Primary | 3/16/2020 | 32.2 ^J | 15.4 |
| | Duplicate | 3/16/2020 | 33.5 ^J | 14.9 |
| | Primary | 6/17/2020 | 48.5 | 14.6 |
| | Duplicate | 6/17/2020 | 54.1 | 16.6 |
| | Primary | 7/20/2020 | 29.6 | 13.3 |
| | Duplicate | 7/20/2020 | 27.7 | 13.8 |
| | Primary | 12/3/2020 | 25.3 | 11.2 ^J |
| | Primary | 3/30/2021 | 37.7 ^J | 17.1 |
| | Primary | 5/6/2021 | 37.9 | 12.9 |
| | Primary | 7/29/2021 | 58.6 | 11.1 |
| | Primary | 11/18/2021 | 3.26 | 1.44 ^J |
| | Primary | 3/22/2022 | 9.96 | 5.76 |
| | Primary | 6/13/2022 | 28.9 | 5.52 |
| Primary | 9/8/2022 | 13.7 | 7.06 | |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-------------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-14 | Primary | 8/29/2017 | 367 | 657 |
| | Primary | 11/27/2017 | 356 | 828 |
| | Primary | 3/27/2018 | 363 | 1,030 |
| | Primary | 6/28/2018 | 381 | 875 |
| | Primary | 9/10/2018 | 338 | 689 |
| | Primary | 12/17/2018 | 331 | 694 |
| | Primary | 3/27/2019 | 356 | 780 |
| | Primary | 6/27/2019 | 427 | -- |
| | Primary | 9/16/2019 | 422 | 921 |
| | Primary | 12/20/2019 | 280 | 1,060 |
| | Primary | 3/12/2020 | 278 ^J | 880 |
| | Primary | 6/17/2020 | 504 | 891 |
| | Primary | 7/20/2020 | 241 | 1,210 |
| | Primary | 12/2/2020 | 388 | 917 |
| | Primary | 3/30/2021 | 280 ^J | 990 |
| | Primary | 5/6/2021 | 370 | 831 |
| | Primary | 7/29/2021 | 493 | 966 |
| | Primary | 11/18/2021 | 279 | 917 |
| | Primary | 3/22/2022 | 339 | 908 |
| | Duplicate | 3/22/2022 | 321 | 879 |
| Primary | 6/14/2022 | 297 ^{J3} | 1,040 | |
| Primary | 9/9/2022 | 297 | 1,020 | |
| TTU-15 | Primary | 3/27/2019 | 3.54 | <1 |
| | Primary | 9/16/2019 | 3.95 | <1 |
| | Primary | 12/20/2019 | 6.09 | <1 |
| | Primary | 3/12/2020 | 3.02 | <1 |
| | Primary | 6/17/2020 | 5.32 | <1 |
| | Primary | 7/20/2020 | 2.81 ^J | <1 |
| | Primary | 12/2/2020 | <3 | 3.10 |
| | Primary | 3/29/2021 | 5.33 ^J | 12.9 |
| | Primary | 5/5/2021 | 3.83 | 11.7 |
| | Primary | 7/29/2021 | 6.26 | 13.0 |
| | Primary | 11/17/2021 | 5.90 | 10.3 |
| | Primary | 3/21/2022 | 6.93 | 7.89 |
| | Primary | 6/13/2022 | 9.83 | 6.23 |
| | Primary | 9/8/2022 | 8.21 | 6.08 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|---------------------|---------------------|----------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-16 | Primary | 3/13/2020 | 2,470 ^J | 51,500 |
| | Primary | 6/17/2020 | 4,310 | 68,400 |
| | Duplicate | 6/17/2020 | 5,610 | 70,200 |
| | Primary | 7/20/2020 | 2,220 ^J | 92,200 |
| | Primary | 12/2/2020 | 1,730 | 80,000 |
| | Duplicate | 12/2/2020 | 1,990 | 96,000 |
| | Primary | 3/29/2021 | 2,880 | 76,800 |
| | Duplicate | 3/29/2021 | 2,550 | 71,800 |
| | Primary | 5/5/2021 | 4,920 | 77,400 ^J |
| | Duplicate | 5/5/2021 | 5,270 | 38,500 ^J |
| | Primary | 7/29/2021 | 5,140 | 86,000 |
| | Duplicate | 7/29/2021 | 5,710 | 87,300 |
| | Primary | 11/17/2021 | 3,930 | 93,200 |
| | Primary | 3/21/2022 | 5,430 | 103,000 |
| | Primary | 6/13/2022 | 3,600 ^{J3} | 96,500 |
| Primary | 9/8/2022 | 3,820 ^{J3} | 9,520 | |
| TTU-17 | Primary | 3/13/2020 | < 0.424 | 0.463 ^J |
| | Primary | 6/17/2020 | <3 | 0.321 ^J |
| | Primary | 7/20/2020 | <3 | 0.367 ^J |
| | Primary | 12/2/2020 | <3 | 1.56 |
| | Primary | 3/29/2021 | <3 | 5.00 |
| | Primary | 5/5/2021 | <3 | 4.13 |
| | Primary | 7/29/2021 | <3 | 3.99 |
| | Primary | 11/17/2021 | <3 | 3.08 |
| | Primary | 3/21/2022 | 4.75 | 3.51 |
| | Primary | 6/13/2022 | 10.1 | 2.10 |
| | Primary | 9/8/2022 | 242 | 2.10 |
| TTU-19 | Primary | 9/23/2021 | 70.4 ^J | 478 |
| | Primary | 6/20/2021 | <3 | 189 |
| | Duplicate | 6/20/2021 | <3 | 373 |
| | Primary | 9/3/2022 | 152 ^Q | 293 |
| TTU-20 | Primary | 11/18/2021 | 2,140 | 13,400 |
| | Primary | 9/23/2021 | 841 ^J | 14,300 |
| | Primary | 6/16/2021 | 1,540 ^{T8} | 10,800 |
| | Primary | 9/3/2022 | 1,140 ^Q | 13,200 ^{J4} |
| | Duplicate | 9/3/2022 | 1,250 ^Q | 10,700 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|-----------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-EX-1 | Primary | 3/13/2020 | 24.5 | 265 |
| | Primary | 6/17/2020 | 284 | 168 |
| | Primary | 7/20/2020 | 207 | 163 |
| | Primary | 12/2/2020 | 466 | 240 |
| | Primary | 3/29/2021 | 340 ^J | 262 |
| | Primary | 5/5/2021 | 258 | 286 |
| | Primary | 7/29/2021 | 702 | 372 |
| | Primary | 11/17/2021 | 112 | 79.0 |
| | Primary | 3/21/2022 | 244 | 181 |
| | Primary | 6/13/2022 | 324 ^{J3} | 174 |
| | Primary | 9/8/2022 | 68.2 | 75.1 |
| TTU-EX-2 | Primary | 3/13/2020 | 198 ^J | 327 |
| | Primary | 6/17/2020 | 405 | 549 |
| | Primary | 7/20/2020 | 212 | 561 |
| | Primary | 12/2/2020 | 424 | 506 |
| | Primary | 3/30/2021 | 334 ^J | 634 |
| | Primary | 5/5/2021 | 218 | 536 |
| | Primary | 7/29/2021 | 523 | 630 |
| | Primary | 11/17/2021 | 158 | 238 |
| | Primary | 3/21/2022 | 213 | 234 |
| | Primary | 6/13/2022 | 189 ^{J3} | 315 |
| | Primary | 9/8/2022 | 74.9 | 68.1 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|--------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-EX-3 | Primary | 3/13/2020 | 175 ^J | 5,960 |
| | Primary | 6/17/2020 | 785 | 6,050 |
| | Primary | 7/20/2020 | 610 | 7,390 |
| | Primary | 12/2/2020 | 805 ^J | 5,970 ^J |
| | Primary | 3/30/2021 | 697 | 5,560 |
| | Primary | 5/5/2021 | 536 | 5,540 |
| | Primary | 7/29/2021 | 1,010 | 7,260 |
| | Primary | 11/17/2021 | 909 | 8,120 |
| | Duplicate | 11/17/2021 | 969 | 8,010 |
| | Primary | 3/21/2022 | 885 | 6,560 |
| | Primary | 6/13/2022 | 863 ^{J3} | 6,020 |
| | Primary | 9/8/2022 | 741 | 7,720 |
| TTU-EX-4 | Primary | 3/13/2020 | 16.1 | 811 |
| | Primary | 6/17/2020 | 23.7 | 1,040 |
| | Primary | 7/20/2020 | 18.1 | 934 |
| | Primary | 12/2/2020 | 20.7 | 501 |
| | Primary | 3/30/2021 | 16.3 | 486 |
| | Primary | 5/5/2021 | 12.8 | 420 |
| | Primary | 7/29/2021 | 29.0 | 461 |
| | Primary | 11/17/2021 | 16.1 | 755 |
| | Primary | 3/21/2022 | 23.9 | 909 |
| | Primary | 6/13/2022 | 27.4 | 579 |
| | Duplicate | 6/13/2022 | 26.1 | 635 |
| | Duplicate | 9/8/2022 | 41.4 | 698 |

**TABLE 5:
HISTORICAL 1,4-DIOXANE AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.**

| | | Chemical Name | 1,4-Dioxane | Trichloroethene |
|-----------|-------------|-----------------|--------------------|--------------------|
| | | EPA Method | 8260B SIM | 8260B |
| | | Unit | µg/l | |
| Sample ID | Sample Type | Screening Level | 3.5 ⁽¹⁾ | 5 |
| | | Sample Date | | |
| TTU-EX-5 | Primary | 3/13/2020 | < 0.476 | 0.929 ^J |
| | Duplicate | 3/13/2020 | < 0.492 | 0.775 ^J |
| | Primary | 6/17/2020 | <3 | 0.456 ^J |
| | Primary | 7/20/2020 | <3 | 0.562 ^J |
| | Duplicate | 7/20/2020 | <3 | 0.637 ^J |
| | Primary | 12/2/2020 | <3 | 4.18 ^J |
| | Duplicate | 12/2/2020 | <3 | 3.89 ^J |
| | Primary | 3/30/2021 | <3 | 6.53 |
| | Primary | 5/5/2021 | <3 | 5.52 |
| | Primary | 7/29/2021 | <3 | 5.51 |
| | Primary | 11/17/2021 | <3 | 6.91 |
| | Primary | 3/21/2022 | <3 | 5.74 |
| | Duplicate | 3/21/2022 | <3 | 5.98 |
| | Primary | 6/13/2022 | <3 | 5.58 |
| | Primary | 9/8/2022 | 2.16 ^J | 4.96 |
| | Duplicate | 9/8/2022 | <3 | 5.06 |

Notes:

µg/l - micrograms per liter

AWQS - Arizona Aquifer Water Quality Standard

EPA - Environmental Protection Agency

NA - Not Analyzed

NS - No sample collected

SIM - Selected Ion Monitoring

< - Concentration is below laboratory reporting limits

-- - Not reported

Bold /Shaded - Concentration exceeds its respective screening level

(1) - Interim Screen Level

V = The sample concentration is too high to evaluate accurate spike recoveries

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J3 = The associated batch QC was outside the established quality control range for precision

J4 = The associated batch QC was outside the established quality control range for accuracy

T8 = Method used not listed in 40 CFR 136; alternate method chosen as acceptable per permit.

R7 = LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria

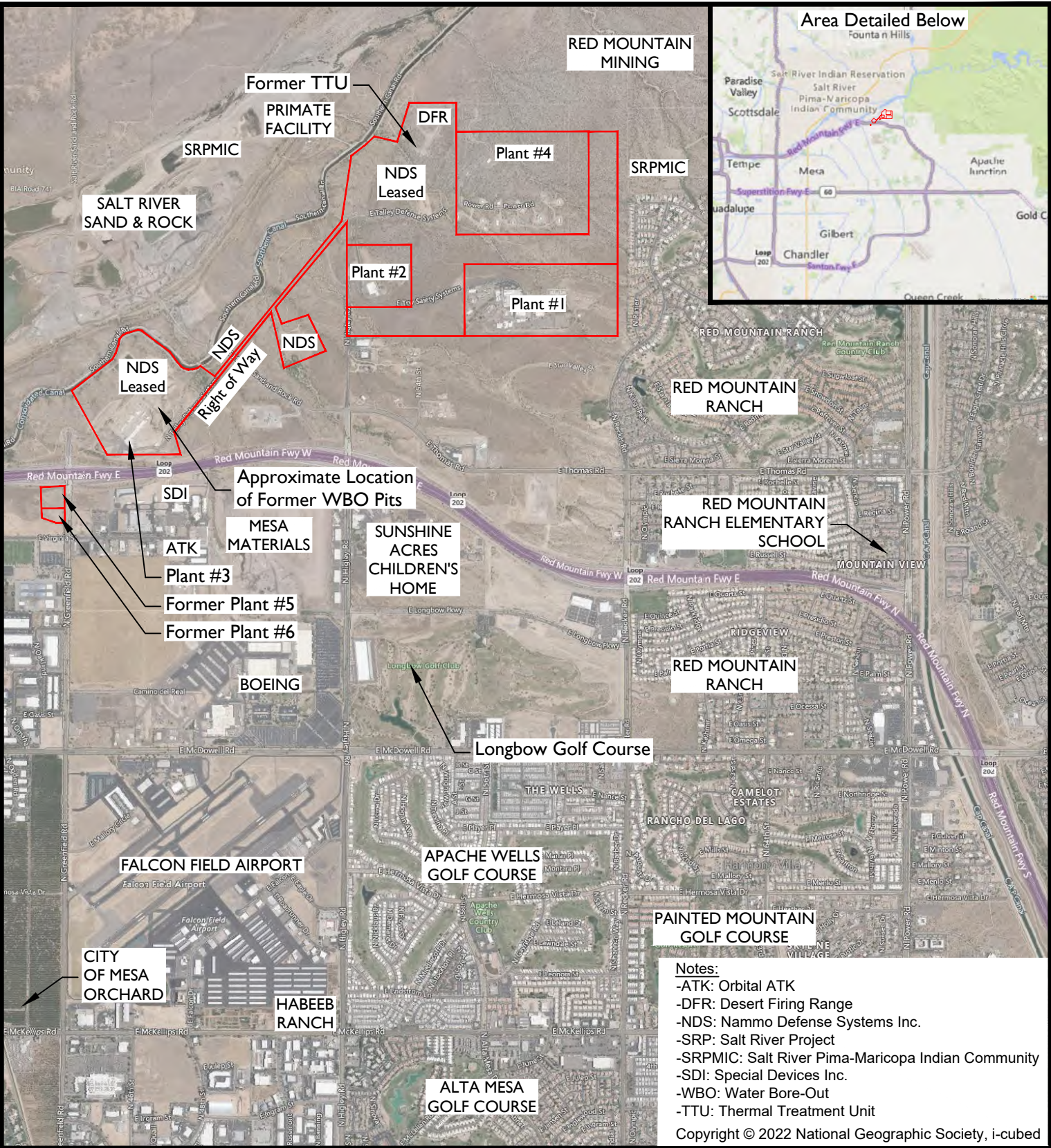
Q = Sample was prepared and/or analyzed past holding time as defined in the method.

Concentration should be considered minimum values

Figures

PLOT DATE: 12/14/2022

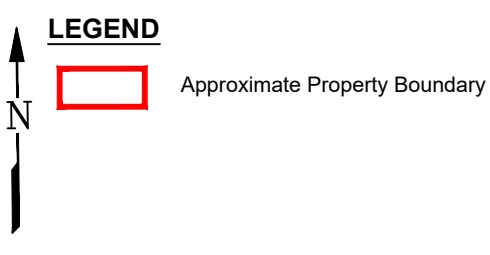
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Notes:

- ATK: Orbital ATK
- DFR: Desert Firing Range
- NDS: Nammo Defense Systems Inc.
- SRP: Salt River Project
- SRPMIC: Salt River Pima-Maricopa Indian Community
- SDI: Special Devices Inc.
- WBO: Water Bore-Out
- TTU: Thermal Treatment Unit

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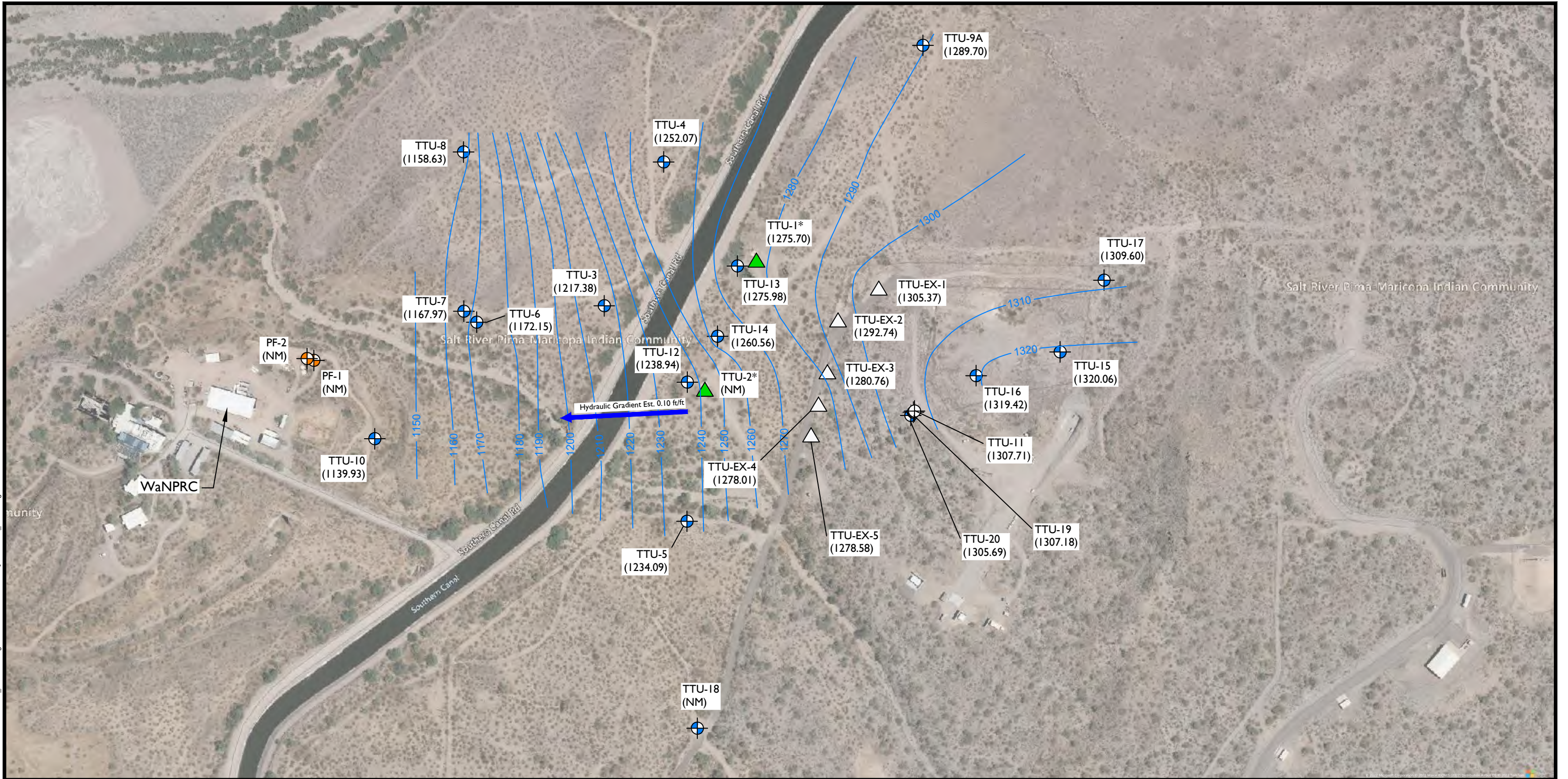


SITE VICINITY MAP

Nammo Defense Systems Inc.
Former Thermal Treatment Unit (TTU)
Mesa, Arizona

| | | |
|---|-----------------|------------------|
| Site Location: Section 3, 15 and 27 Township 1N, Range 6E, Gila-Salt River Meridian | Drawn By: SJA | Figure: 1 |
| Pinyon Project Number: 7/22-1522-01.REM001.4 | Reviewed By: DW | Date: 12/14/2022 |

Coordinate System: NAD83 ARIZONA STATE PLANES, CENTRAL ZONE, US FOOT - AZ83-CF



LEGEND

- Extraction Well
- Monitoring Well
- Primate Production Well
- Extraction and Pilot Test Injection Well
- Monitoring / Injection Well
- Extraction Well Currently used for Monitoring
- TTU-1 = 1145.24 = Monitoring Well Location Groundwater Elevation (ft. amsl)
- Groundwater Elevation Contour (ft amsl) (Contour Interval: 10ft)
- Estimated Regional Groundwater Flow Direction

Notes:
 All locations are approximate.
 NM: Not Measured
 ft. amsl: feet above mean sea level.
 TTU-7 is a deep well and therefore it is not used for contouring.
 TTU-18 is dry and not sampled.
 TTU-1 and TTU-2 were sampled several weeks after the other wells.
 Therefore, the depth to groundwater data was not used to prepare this groundwater contour map.

* - Data not used in contour preparation
 WaNPRC: Washington National Primate Research Center
 NDS: Nammo Defense Systems Inc.



**QUARTERLY GROUNDWATER CONTOUR
 MAP - THIRD QUARTER 2022**

Nammo Defense Systems Inc.
 Former Thermal Treatment Unit (TTU)
 Mesa, Arizona

Site Location: Section 23, Township 12N, Range 6E, Gila-Salt River Meridian

Pinyon Project Number: 7/22-1522-01.REM001.4

Drawn By: SJA

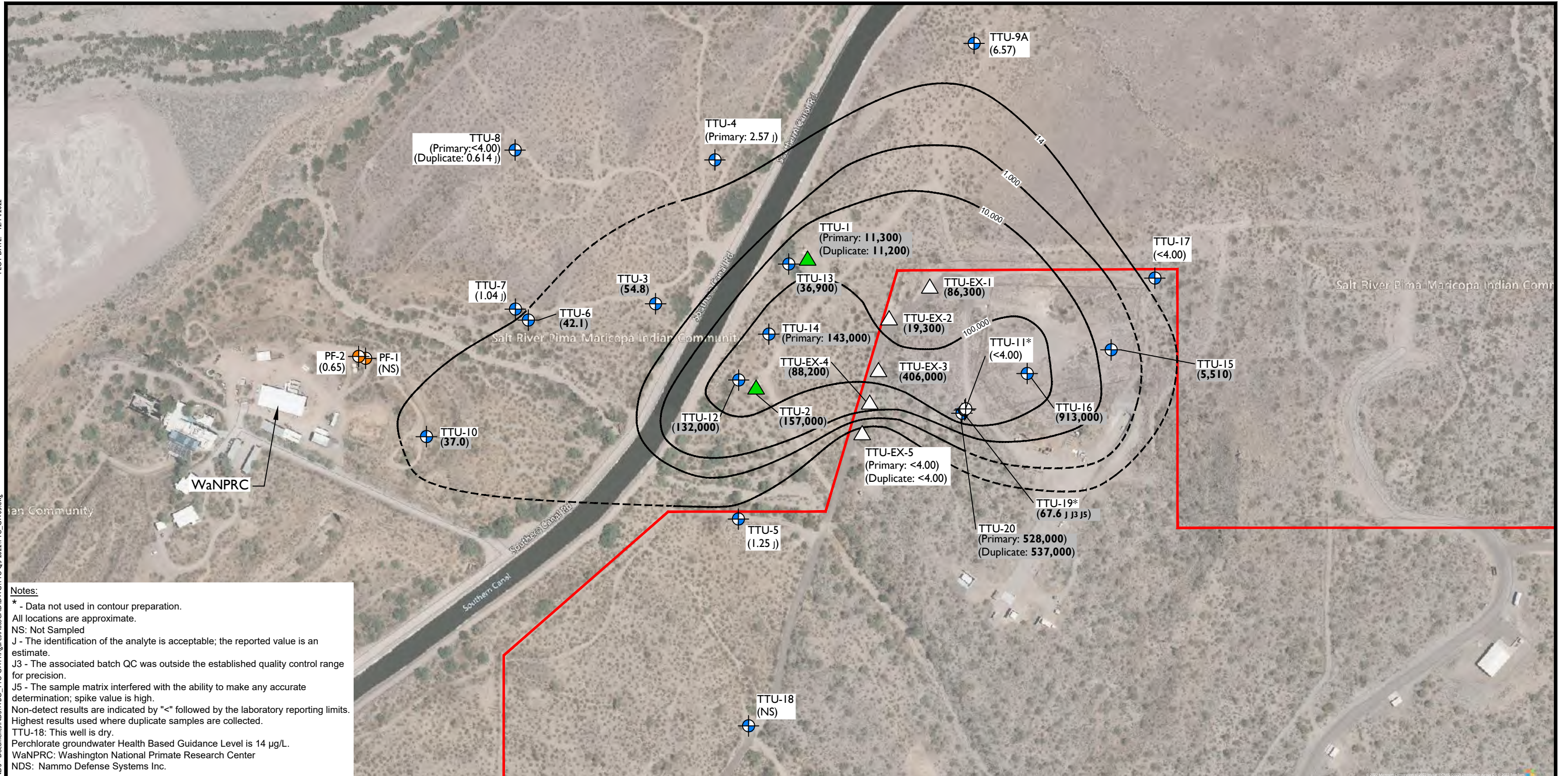
Figure: 2

Reviewed By: DW

Date: 12/14/2022

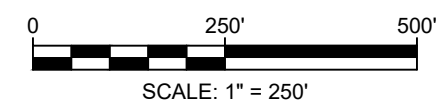
PLOT DATE: 12/14/2022

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Notes:
 * - Data not used in contour preparation.
 All locations are approximate.
 NS: Not Sampled
 J - The identification of the analyte is acceptable; the reported value is an estimate.
 J3 - The associated batch QC was outside the established quality control range for precision.
 J5 - The sample matrix interfered with the ability to make any accurate determination; spike value is high.
 Non-detect results are indicated by "<" followed by the laboratory reporting limits.
 Highest results used where duplicate samples are collected.
 TTU-18: This well is dry.
 Perchlorate groundwater Health Based Guidance Level is 14 µg/L.
 WaNPRC: Washington National Primate Research Center
 NDS: Nammo Defense Systems Inc.

| LEGEND | |
|----------|--|
| | Extraction Well |
| | Monitoring Well |
| | Primate Production Well |
| | Extraction and Pilot Test Injection Well |
| | Monitoring / Injection Well |
| | Extraction Well Currently used for Monitoring |
| TTU-1 = | Monitoring Well Location |
| 14,000 = | Perchlorate Concentration in micrograms per liter (µg/L) |
| | NDS Leased Property Boundary with SRP-MIC |
| | Exceeds the 14 µg/L Screening Level |
| | Perchlorate Concentration Contour (µg/l) |



Pinyon
Environmental, Inc.

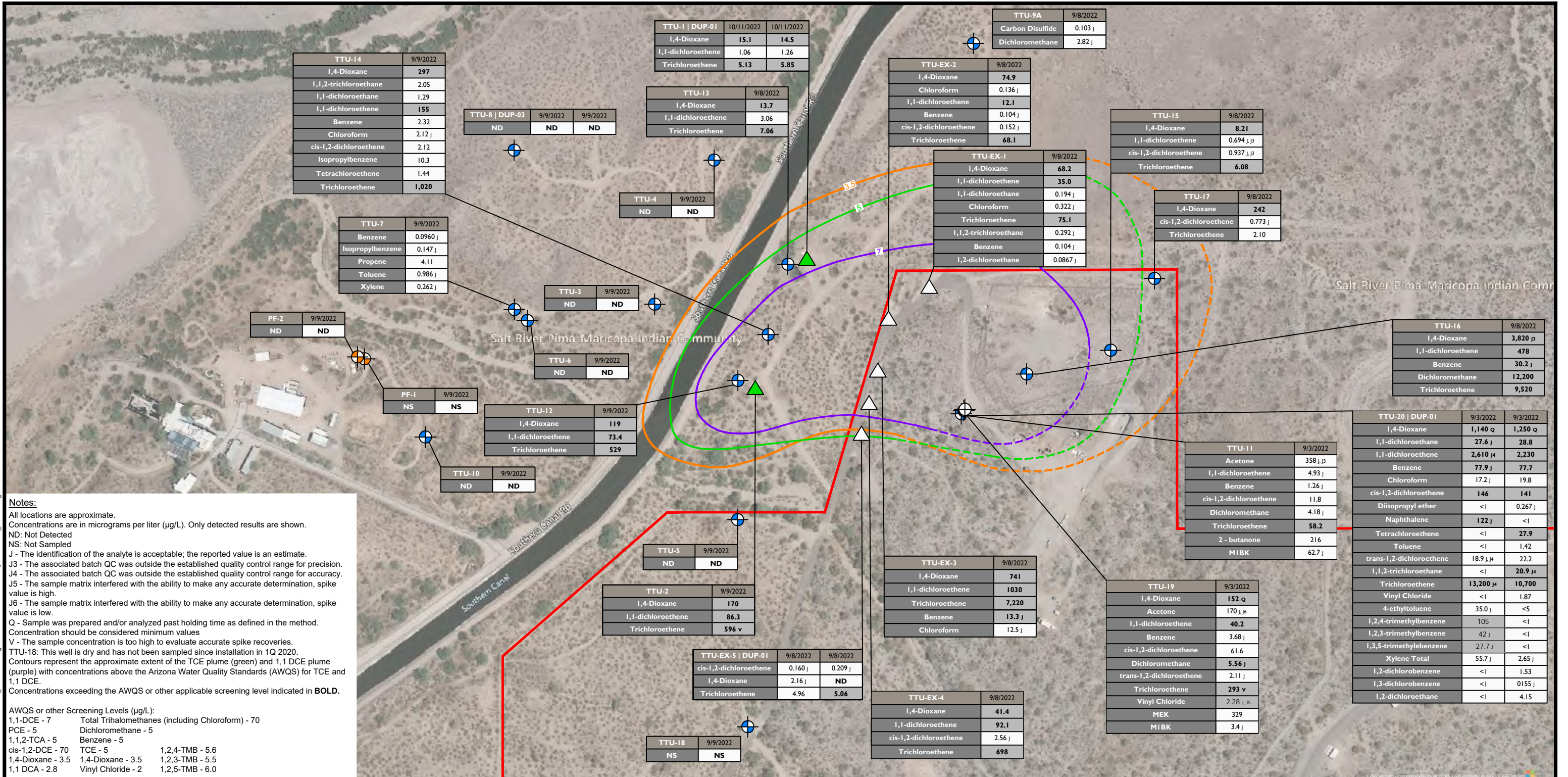
PERCHLORATE DETECTIONS IN GROUNDWATER - THIRD QUARTER 2022

Nammo Defense Systems Inc.
Former Thermal Treatment Unit (TTU)
Mesa, Arizona

Site Location: Section 23, Township 12N, Range 6E, Gila-Salt River Meridian

Pinyon Project Number: 7/22-1522-01.REM001.4

| | |
|-----------------|------------------|
| Drawn By: SJA | Figure: 3 |
| Reviewed By: DW | Date: 12/14/2022 |

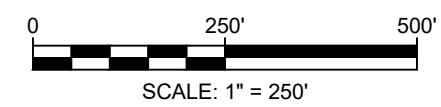


Notes:
 All locations are approximate.
 Concentrations are in micrograms per liter (µg/L). Only detected results are shown.
 ND: Not Detected
 NS: Not Sampled
 J - The identification of the analyte is acceptable; the reported value is an estimate.
 J3 - The associated batch QC was outside the established quality control range for precision.
 J4 - The associated batch QC was outside the established quality control range for accuracy.
 J5 - The sample matrix interfered with the ability to make any accurate determination, spike value is high.
 J6 - The sample matrix interfered with the ability to make any accurate determination, spike value is low.
 Q - Sample was prepared and/or analyzed past holding time as defined in the method. Concentration should be considered minimum values
 V - The sample concentration is too high to evaluate accurate spike recoveries.
 TTU-18: This well is dry and has not been sampled since installation in 1Q 2020.
 Contours represent the approximate extent of the TCE plume (green) and 1,1 DCE plume (purple) with concentrations above the Arizona Water Quality Standards (AWQS) for TCE and 1,1 DCE.
 Concentrations exceeding the AWQS or other applicable screening level indicated in **BOLD**.

AWQS or other Screening Levels (µg/L):
 1,1-DCE - 7 Total Trihalomethanes (including Chloroform) - 70
 PCE - 5 Dichloromethane - 5
 1,1,2-TCA - 5 Benzene - 5
 cis-1,2-DCE - 70 TCE - 5 1,2,4-TMB - 5.6
 1,4-Dioxane - 3.5 1,4-Dioxane - 3.5 1,2,3-TMB - 5.5
 1,1 DCA - 2.8 Vinyl Chloride - 2 1,2,5-TMB - 6.0

LEGEND

- ▲ Extraction Well
- Monitoring Well
- Primate Production Well
- Extraction and Pilot Test Injection Well
- ⊙ Monitoring / Injection Well
- △ Extraction Well Currently used for Monitoring
- TTU-1 = ● Monitoring Well Location
- NDS Leased Property Boundary with SRP-MIC
- 3.5 (dashed line) Extent of Estimated 1,4-Dioxane Concentration in Groundwater Third Quarter 2022 (Dashed Where Inferred)
- 5.76 (dashed line) Extent of Estimated Trichloroethene (TCE) Concentration in Groundwater Third Quarter 2022 (Dashed Where Inferred)
- 7 (dashed line) Extent of Estimated 1,1-Dichloroethene (1,1-DCE) Concentration in Groundwater Third Quarter 2022 (Dashed Where Inferred)
- 5.76 Exceeds Aquifer Water Quality Standards



Pinyon Environmental, Inc.

VOC DETECTIONS IN GROUNDWATER - THIRD QUARTER 2022

Nammo Defense Systems Inc.
 Former Thermal Treatment Unit (TTU)
 Mesa, Arizona

Site Location: Section 23, Township 12N, Range 6E, Gila-Salt River Meridian

Pinyon Project Number: 7/22-1522-01.REM001.4

Coordinate System: NAD83 ARIZONA STATE PLANES, CENTRAL ZONE, US FOOT - AZ83-CF

Drawn By: SJA Figure: 4

Reviewed By: DW Date: 12/14/2022

Attachments








Attachment I – Drilling Logs and Well Completion Diagrams

**GROUNDWATER OBSERVATION WELL
INSTALLATION REPORT**

Well No. TTU-1
Boring No. TTU-1

Project SRPMIC Well Installation
Location Mesa, AZ
Client Nammo Talley
Contractor WDC Exploration & Wells
Driller

Well Diagram

-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

File No. 39014
Date Installed 6 Jun 2012
H&A Rep. J. Bellamy
Location See Plan

Ground El. 1309.7
Datum NAVD 88

Initial Water Level (depth bgs) 39.5 ft

COMBUSTIBLE GAS WELL INST RPT HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINTS\SRPMIC WELL.GPJ 27 Feb 15

| SOIL/ROCK | | GRAPHIC | WELL DETAILS | DEPTH (ft.) | ELEVATION (ft.) | WELL CONSTRUCTION DETAILS |
|---|-------------|---------|--------------|-------------|-----------------|--|
| CONDITIONS | DEPTH (ft.) | | | | | |
| | | | | 0.0 | 1309.7 | Type of protective cover <u>Well Vault</u> |
| | | | | | | Height of Guard Pipe above ground surface <u>3.1 ft</u> |
| | | | | | | Height of top of riser above ground surface <u>2.5 ft</u> |
| | | | | 20.0 | 1289.7 | Type of protective casing <u>Guard Pipe</u> |
| | | | | 25.0 | 1284.7 | Length <u>5.0 ft</u> |
| | | | | 30.0 | 1279.7 | Inside diameter <u>12.5 in</u> |
| | | | | | | Depth of bottom of Guard Pipe <u>0.0 ft</u> |
| | | | | | | Type of riser pipe <u>Schedule 40 PVC</u> |
| | | | | | | Inside diameter of riser pipe <u>4 in</u> |
| | | | | 70.0 | 1239.7 | Depth of bottom of riser pipe <u>30 ft</u> |
| | | | | 75.0 | 1234.7 | |
| | | | | 77.0 | 1232.7 | |
| | | | | | | <u>Type of Seals</u> <u>Top of Seal (ft)</u> <u>Thickness (ft)</u> |
| | | | | | | <u>Grout</u> <u>1.8</u> <u>18.2</u> |
| | | | | | | <u>Bentonite</u> <u>20.0</u> <u>5.0</u> |
| | | | | | | <u>Bentonite</u> <u>77.0</u> <u>123.0</u> |
| | | | | | | Diameter of borehole <u>9.75 in</u> |
| | | | | | | Depth to top of well screen <u>30 ft</u> |
| | | | | | | Type of screen <u>Machine slotted Sch 40 PVC</u> |
| | | | | | | Screen gauge or size of openings <u>0.020 in</u> |
| | | | | | | Diameter of screen <u>4.0 in</u> |
| | | | | | | Type of Backfill around Screen <u>No. 8-12 Co. Silica Sand</u> |
| | | | | | | Depth to bottom of well screen <u>70 ft</u> |
| | | | | | | Bottom of silt trap <u>N/A</u> |
| | | | | | | Depth of bottom of borehole <u>200.0 ft</u> |
| SANDY SILT | 10.0 | | | | | |
| BEDROCK Moderately weathered to unweathered granitic bedrock. | 200.0 | | | 200.0 | 1109.7 | |

**GROUNDWATER OBSERVATION WELL
INSTALLATION REPORT**

Well No. TTU-2
Boring No. TTU-2

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor National
Driller

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

File No. 39014
Date Installed 17 Oct 2013
H&A Rep. T. Cole
Location See Plan

Ground El. 1311.8
Datum NAVD 88

Initial Water Level (depth bgs) 60.7 ft

COMBUSTIBLE GAS WELL INST RPT HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\NAMMOTALLEYTTUWELLOGS - COPY.GPJ 27 Feb 15

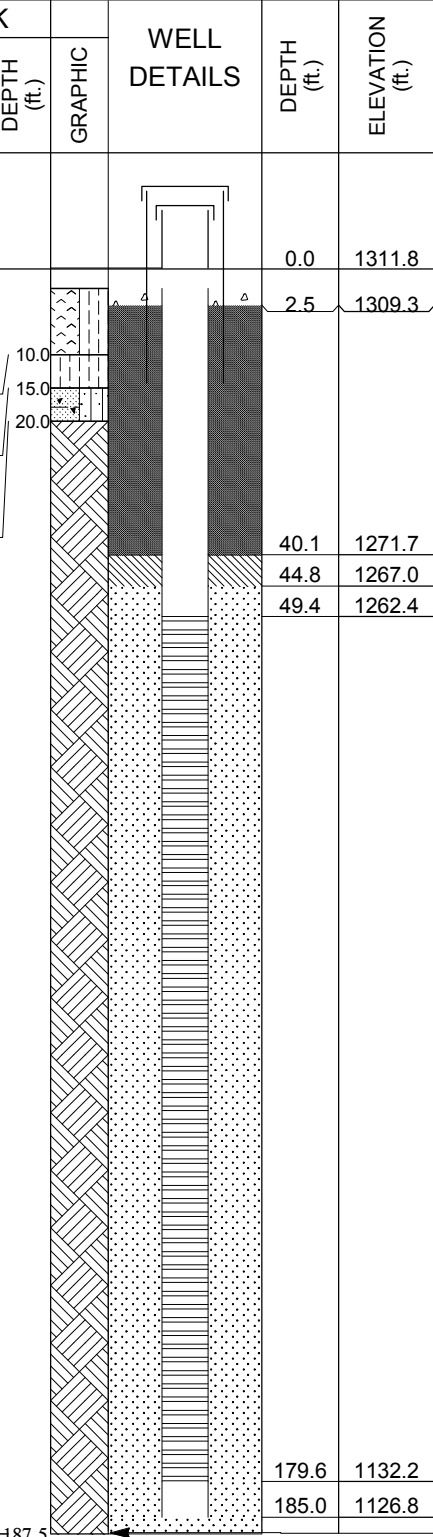
| SOIL/ROCK | | GRAPHIC | WELL DETAILS | DEPTH (ft.) | ELEVATION (ft.) | WELL CONSTRUCTION DETAILS | | |
|------------|-------------|---------|--------------|-------------|-----------------|---|----------------------------|-----------------------|
| CONDITIONS | DEPTH (ft.) | | | | | Type of protective cover | Length | Inside diameter |
| | | | | 0.0 | 1311.8 | Type of protective cover | Well Vault | |
| | | | | 2.5 | 1309.3 | Height of Guard Pipe above ground surface | 2.6 ft | |
| | | | | | | Height of top of riser above ground surface | 2.1 ft | |
| | | | | | | Type of protective casing | Guard Pipe | |
| | | | | | | Length | 5.0 ft | |
| | | | | | | Inside diameter | 12.5 in | |
| | | | | 40.1 | 1271.7 | Depth of bottom of Guard Pipe | 2.4 ft | |
| | | | | 44.8 | 1267.0 | | | |
| | | | | 49.4 | 1262.4 | Type of riser pipe | Schedule 40 PVC | |
| | | | | | | Inside diameter of riser pipe | 4.0 in | |
| | | | | | | Depth of bottom of riser pipe | 49.4 ft | |
| | | | | | | <u>Type of Seals</u> | <u>Top of Seal (ft)</u> | <u>Thickness (ft)</u> |
| | | | | | | Grout | 2.4 | 37.7 |
| | | | | | | Bentonite | 40.1 | 4.7 |
| | | | | | | | - | - |
| | | | | | | Diameter of borehole | 9 3/4 in | |
| | | | | | | Depth to top of well screen | 49.4 ft | |
| | | | | | | Type of screen | Machine slotted Sch 40 PVC | |
| | | | | | | Screen gauge or size of openings | 0.020 in. | |
| | | | | | | Diameter of screen | 4.0 in | |
| | | | | | | Type of Backfill around Screen | No. 8-12 Co. Silica Sand | |
| | | | | | | Depth to bottom of well screen | 179.6 ft | |
| | | | | 179.6 | 1132.2 | Bottom of silt trap | N/A | |
| | | | | 185.0 | 1126.8 | Depth of bottom of borehole | 187.5 ft | |

WELL-GRADED SAND WITH SILT AND GRAVEL
Brown, dry.

SILTY SAND WITH GRAVEL
Dark brown, dry.

WELL-GRADED GRAVEL WITH SILT AND SAND
Brown, dry.

BEDROCK
Moderately weathered to unweathered granitic bedrock.










**GROUNDWATER OBSERVATION WELL
INSTALLATION REPORT**

Well No. TTU-3
Boring No. TTU-3

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor National
Driller

Well Diagram

-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

File No. 39014
Date Installed 18 Oct 2013
H&A Rep. T. Cole
Location See Plan

Ground El. 1305.5
Datum NAVD 88

Initial Water Level (depth bgs) 92.3 ft

COMBUSTIBLE GAS WELL INST RPT HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\NAMMOTALLEY\TTUWELLOGS - COPY.GPJ 27 Feb 15

| SOIL/ROCK | | GRAPHIC | WELL DETAILS | DEPTH (ft.) | ELEVATION (ft.) | WELL CONSTRUCTION DETAILS | | | |
|------------|-------------|---------|--------------|-------------|-----------------|---|----------------------------|-----------------------|-------------------------------|
| CONDITIONS | DEPTH (ft.) | | | | | Type of protective cover | Length | Inside diameter | Depth of bottom of Guard Pipe |
| | | | | 0.0 | 1305.5 | Type of protective cover | Well Vault | | |
| | | | | 2.5 | 1303.0 | Height of Guard Pipe above ground surface | 2.5 ft | | |
| | | | | 5.0 | | Height of top of riser above ground surface | 2.0 ft | | |
| | | | | 15.0 | | Type of protective casing | Guard Pipe | | |
| | | | | | | Length | 5.0 ft | | |
| | | | | | | Inside diameter | 12.5 in | | |
| | | | | | | Depth of bottom of Guard Pipe | 2.5 ft | | |
| | | | | | | Type of riser pipe | Schedule 40 PVC | | |
| | | | | 63.8 | 1241.7 | Inside diameter of riser pipe | 4.0 in | | |
| | | | | 73.3 | 1232.2 | Depth of bottom of riser pipe | 78.1 ft | | |
| | | | | 78.1 | 1227.4 | Type of Seals | Top of Seal (ft) | Thickness (ft) | |
| | | | | | | Grout | 2.5 | 61.3 | |
| | | | | | | Bentonite | 63.8 | 9.5 | |
| | | | | | | Bentonite | 147.0 | 33.0 | |
| | | | | | | Diameter of borehole | 9 3/4 in | | |
| | | | | | | Depth to top of well screen | 78.1 ft | | |
| | | | | | | Type of screen | Machine slotted Sch 40 PVC | | |
| | | | | 138.1 | 1167.4 | Screen gauge or size of openings | 0.020 in. | | |
| | | | | 143.6 | 1161.9 | Diameter of screen | 4.0 in | | |
| | | | | 147.0 | 1158.5 | Type of Backfill around Screen | No. 8-12 Co. Silica Sand | | |
| | | | | | | Depth to bottom of well screen | 138.1 ft | | |
| | | | | | | Bottom of silt trap | N/A | | |
| | | | | 180.0 | 1125.5 | Depth of bottom of borehole | 180.0 ft | | |

WELL-GRADED GRAVEL WITH SILT Brown, dry.
WELL-GRADED GRAVEL Brown, dry.








BEDROCK
Moderately weathered to unweathered granitic bedrock.

**GROUNDWATER OBSERVATION WELL
INSTALLATION REPORT**

Well No. TTU-4
Boring No. TTU-4

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor National
Driller

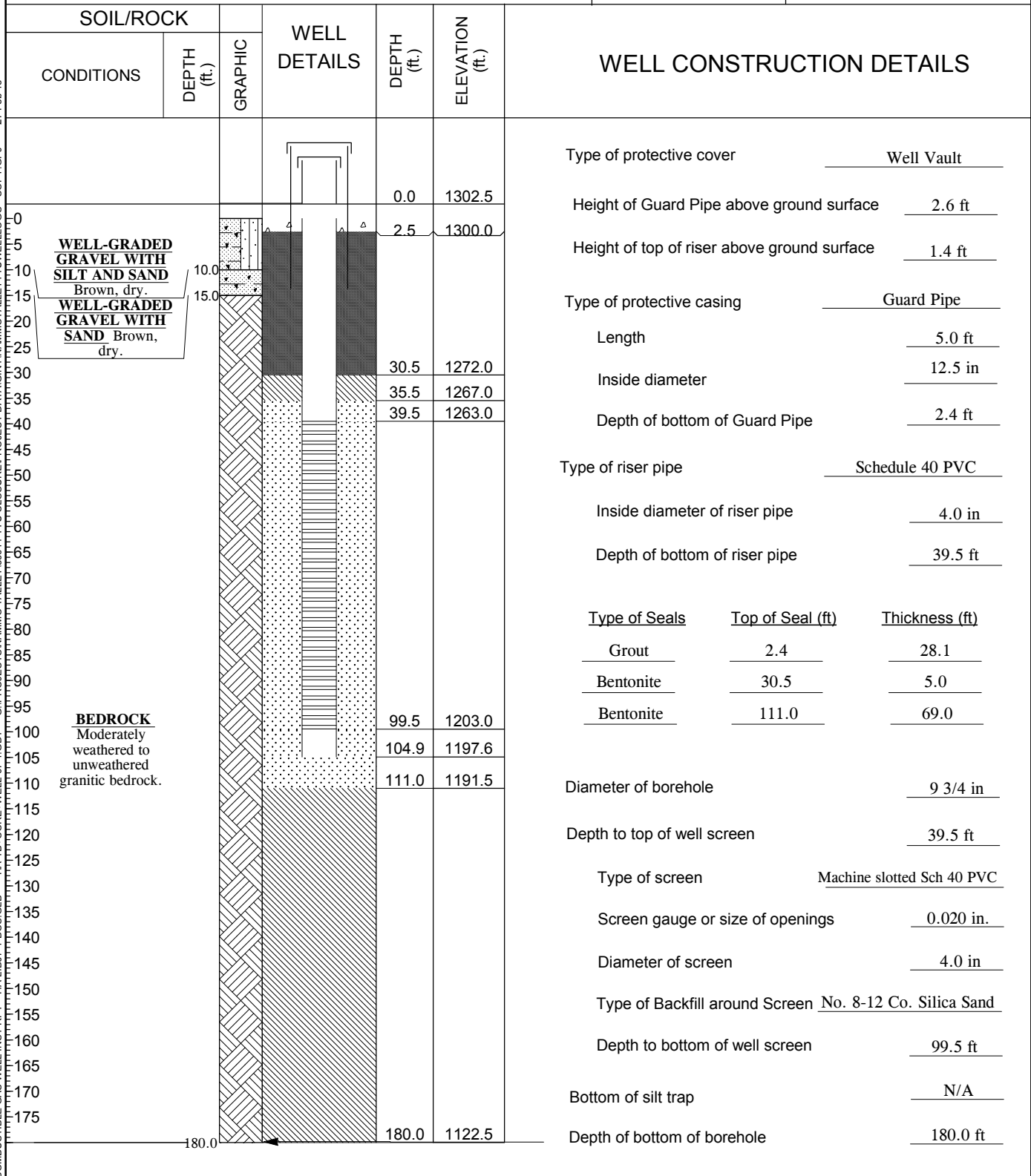
Well Diagram

-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

File No. 39014
Date Installed 25 Oct 2013
H&A Rep. L. Candreva
Location See Plan
Ground El. 1302.5
Datum NAVD 88

Initial Water Level (depth bgs) 50.7 ft

COMBUSTIBLE GAS WELL INST RPT HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\NAMMOTALLEY\TTUWELLOGS - COPY.GPJ 27 Feb 15










GROUNDWATER OBSERVATION WELL INSTALLATION REPORT

Well No. TTU-5
Boring No. TTU-5

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor National
Driller

Well Diagram

-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

File No. 39014
Date Installed 20 Sep 2014
H&A Rep. D. Andersen
Location See Plan
Ground El. 1312.3
Datum NAVD 88

Initial Water Level (depth bgs) 132.2 ft

27 Feb 15
COMBUSTIBLE GAS WELL INST RPT HA-LIB07-4-BOS.GLB HA-TB-CORE+WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\NAMMOTALLEYTTUWELLOGS - COPY.GPJ

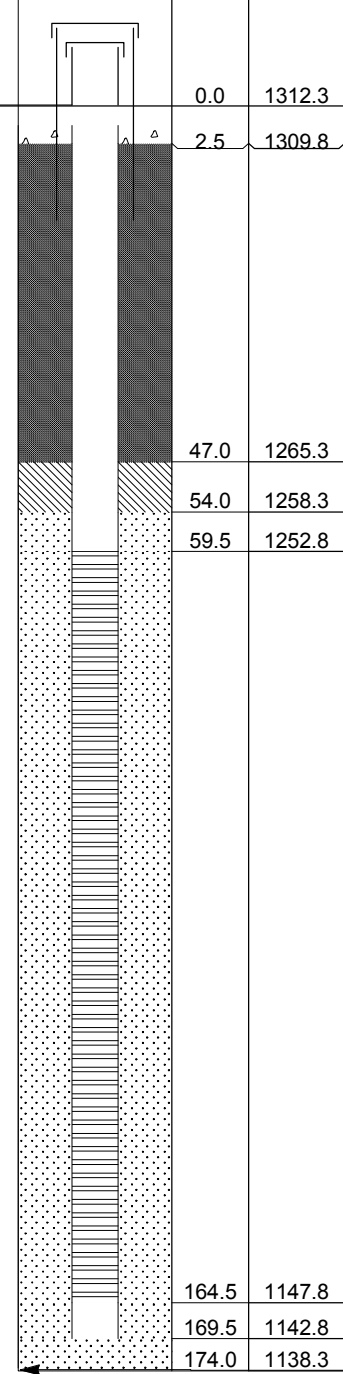
| SOIL/ROCK | | GRAPHIC | WELL DETAILS | DEPTH (ft.) | ELEVATION (ft.) | WELL CONSTRUCTION DETAILS | | |
|------------|-------------|---------|--------------|-------------|-----------------|---|----------------------------|-----------------------|
| CONDITIONS | DEPTH (ft.) | | | | | Type of protective cover | Length | Inside diameter |
| | | | | 0.0 | 1312.3 | Type of protective cover | Well Vault | |
| | | | | 2.5 | 1309.8 | Height of Guard Pipe above ground surface | 3.0 ft | |
| | | | | 2.6 | | Height of top of riser above ground surface | 2.6 ft | |
| | | | | 47.0 | 1265.3 | Type of protective casing | Guard Pipe | |
| | | | | 54.0 | 1258.3 | Length | 5.0 ft | |
| | | | | 59.5 | 1252.8 | Inside diameter | 12.5 in | |
| | | | | | | Depth of bottom of Guard Pipe | 2.0 ft | |
| | | | | | | Type of riser pipe | Schedule 40 PVC | |
| | | | | | | Inside diameter of riser pipe | 4.0 in | |
| | | | | | | Depth of bottom of riser pipe | 59.5 ft | |
| | | | | | | Type of Seals | Top of Seal (ft) | Thickness (ft) |
| | | | | | | Grout | 2.0 | 45.0 |
| | | | | | | Bentonite | 47.0 | 7.0 |
| | | | | | | | - | - |
| | | | | | | Diameter of borehole | 9 3/4 in | |
| | | | | | | Depth to top of well screen | 59.5 ft | |
| | | | | | | Type of screen | Machine slotted Sch 40 PVC | |
| | | | | | | Screen gauge or size of openings | 0.020 in. | |
| | | | | | | Diameter of screen | 4.0 in | |
| | | | | | | Type of Backfill around Screen | No. 8-12 Co. Silica Sand | |
| | | | | | | Depth to bottom of well screen | 164.5 ft | |
| | | | | 164.5 | 1147.8 | Bottom of silt trap | N/A | |
| | | | | 169.5 | 1142.8 | | | |
| | | | | 174.0 | 1138.3 | Depth of bottom of borehole | 174.0 ft | |

SILTY SAND
Brown, dry.

POORLY-GRADED GRAVEL WITH SAND
Brown, dry.

WELL-GRADED SAND WITH GRAVEL
Brown, dry.

BEDROCK
Moderately weathered to unweathered granitic bedrock.










**GROUNDWATER OBSERVATION WELL
INSTALLATION REPORT**

Well No. TTU-7
Boring No. TTU-7

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor National
Driller

Well Diagram

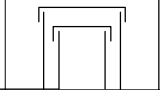
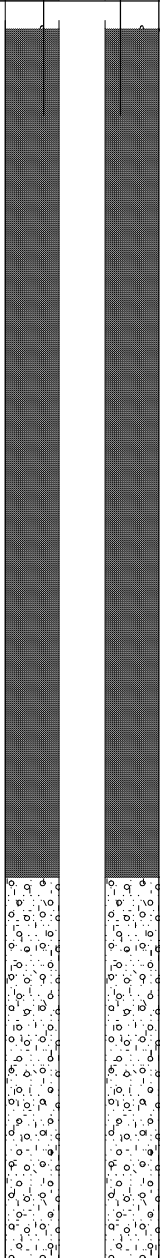
-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

File No. 39014
Date Installed 8 Oct 2014
H&A Rep. D. Andersen
Location See Plan

Ground El. 1299.3
Datum NAVD 88

Initial Water Level (depth bgs) 136.3 ft

COMBUSTIBLE GAS WELL INST RPT HA-LIB07-1-BOS.GLB HA-TB-CORE+WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\NAMMOTALLEYTTUWELLOGS - COPY.GPJ 27 Feb 15

| SOIL/ROCK | | GRAPHIC | WELL DETAILS | DEPTH (ft.) | ELEVATION (ft.) | WELL CONSTRUCTION DETAILS | | |
|---|-------------|---------|--|-------------|-----------------|---|-------------------------|-----------------------|
| CONDITIONS | DEPTH (ft.) | | | | | Type of protective cover | Length | Inside diameter |
| | | |  | 0.0 | 1299.3 | Type of protective cover | Well Vault | |
| | | | | 2.5 | 1296.8 | Height of Guard Pipe above ground surface | 2.5 ft | |
| SILTY SAND Brown, dry. | 10.0 | |  | | | Height of top of riser above ground surface | 2.5 ft | |
| POORLY-GRADED GRAVEL WITH SILT AND SAND Brown, dry. | 20.0 | | | | | Type of protective casing | Guard Pipe | |
| WELL-GRADED SAND WITH SILT Brown, dry. | 25.0 | | | | | Length | 284.5 ft | |
| | | | | | | Inside diameter | 8.5 in | |
| | | | | | | Depth of bottom of Guard Pipe | 282.0 ft | |
| | | | | | | Type of riser pipe | Steel Conductor Casing | |
| | | | | | | Inside diameter of riser pipe | 8.5 in | |
| | | | | | | Depth of bottom of riser pipe | 282.0 ft | |
| | | | | | | Type of Seals | Top of Seal (ft) | Thickness (ft) |
| | | | | | | Grout | 2.5 | 279.5 |
| | | | | | | | - | - |
| | | | | | | | - | - |
| BEDROCK Moderately weathered to unweathered granitic bedrock. | | | | 282.0 | 1017.3 | Diameter of borehole | 8.0 in | |
| | | | | | | Depth to top of well screen | 282.0 ft | |
| | | | | | | Type of screen | OPEN | |
| | | | | | | Screen gauge or size of openings | N/A | |
| | | | | | | Diameter of screen | 8.0 in | |
| | | | | | | Type of Backfill around Screen | N/A | |
| | | | | | | Depth to bottom of well screen | 410 ft | |
| | | | | | | Bottom of silt trap | N/A | |
| | | | | 410.0 | 889.3 | Depth of bottom of borehole | 410.0 ft | |

GROUNDWATER OBSERVATION WELL INSTALLATION REPORT

Well No. TTU-8
Boring No. TTU-8

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor Yellow Jacket Drilling
Driller Q. Stevens

Well Diagram

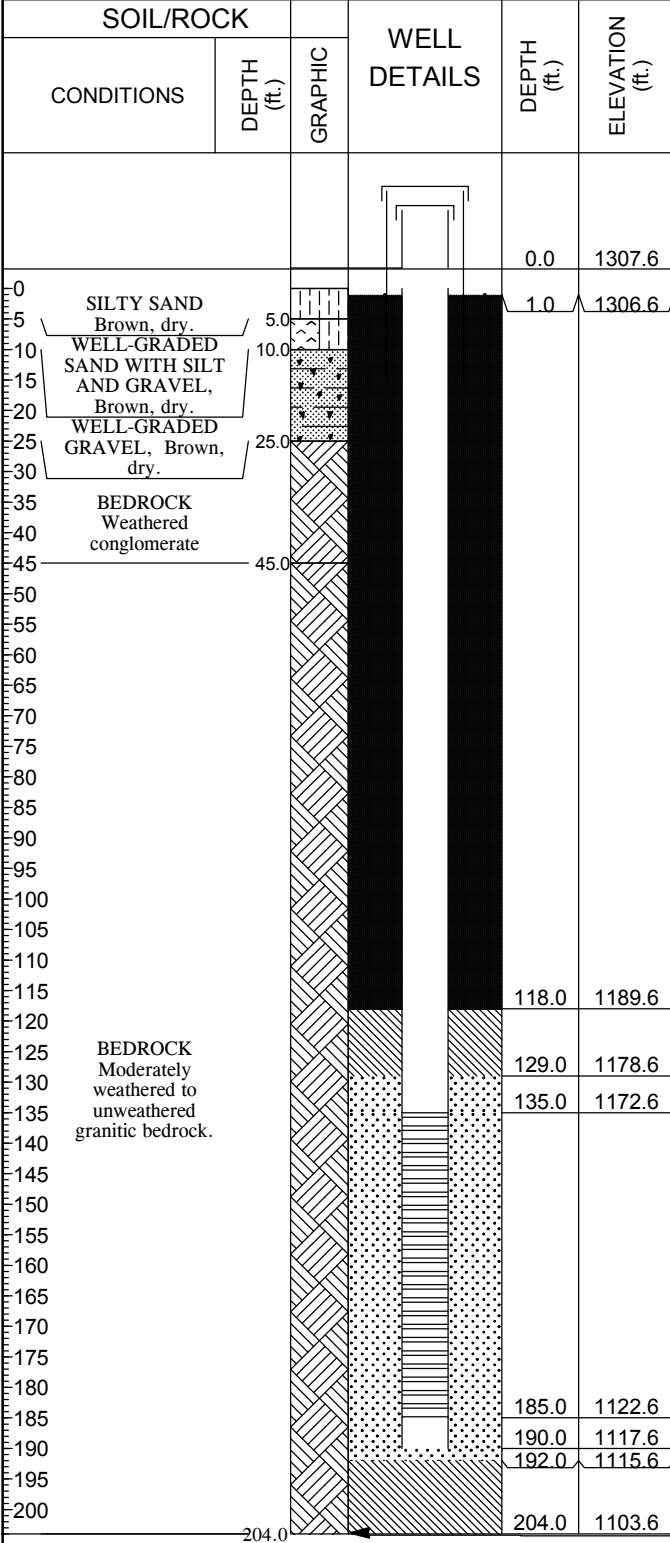
- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

File No. 39014
Date Installed 18 Apr 2016
H&A Rep. D. Andersen
Location See Plan

Ground El. 1307.6
Datum NAVD 88

Initial Water Level (depth bgs) _____ **ft**

GW INSTALLATION REPORT-07-1 HALIB07-1-BOS.GLB HA-TB+CORE+WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\2016_X\JWELLS.GPJ Oct 21, 16



WELL CONSTRUCTION DETAILS








| | |
|---|----------------------------|
| Type of protective cover | Well Vault |
| Height of Guard Pipe above ground surface | 2.9 ft |
| Height of top of riser above ground surface | 2.6 ft |
| Type of protective casing | Guard Pipe |
| Length | 5.0 ft |
| Inside diameter | 8.5 in |
| Depth of bottom of Guard Pipe | 2.1 ft |
| Type of riser pipe | Schedule 40 PVC |
| Inside diameter of riser pipe | 4.0 in |
| Depth of bottom of riser pipe | 135.0 ft |
| Type of Seals | Top of Seal (ft) |
| Grout | 1.0 |
| Bentonite | 118.0 |
| Bentonite | 192.0 |
| Thickness (ft) | |
| Grout | 117.0 |
| Bentonite | 11.0 |
| Bentonite | 12.0 |
| Diameter of borehole | 8.5 in |
| Depth to top of well screen | 135.0 ft |
| Type of screen | Machine slotted Sch 40 PVC |
| Screen gauge or size of openings | 0.020 in. |
| Diameter of screen | 4.0 in |
| Type of Backfill around Screen | No. 8-12 Co. Silica Sand |
| Depth to bottom of well screen | 185 ft |
| Bottom of silt trap | 190.0 ft |
| Depth of bottom of borehole | 204.0 ft |

**GROUNDWATER OBSERVATION WELL
INSTALLATION REPORT**

Well No. TTU-10
Boring No. TTU-10

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor Yellow Jacket Drilling
Driller Q. Stevens

Well Diagram

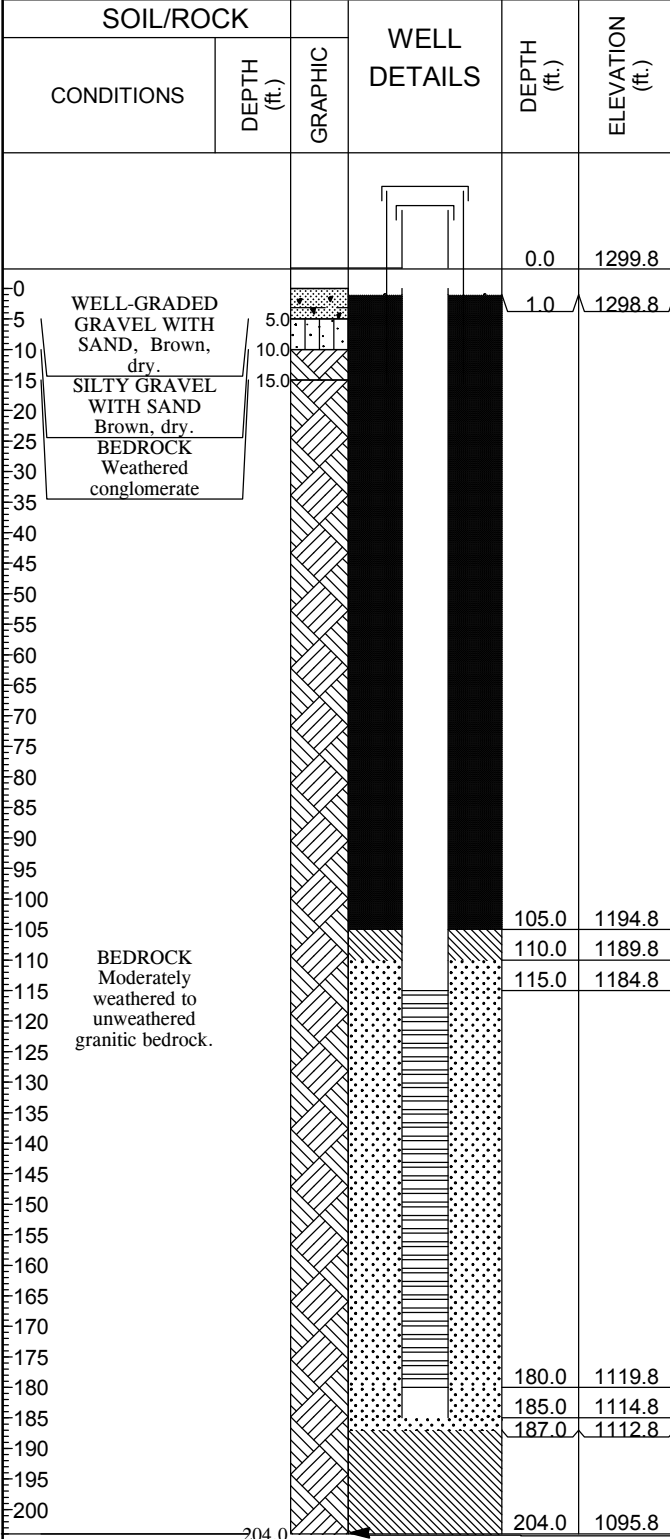
-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

File No. 39014
Date Installed 18 Apr 2016
H&A Rep. D. Andersen
Location See Plan

Ground El. 1299.8
Datum NAVD 88

Initial Water Level (depth bgs) _____ ft

GW INSTALLATION REPORT-07-1 HALLIB07-1-BOS.GLB HA-TB+CORE+WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\2015_2016_XJWELLS.GPJ Oct 21, 16



WELL CONSTRUCTION DETAILS

| | | |
|---|----------------------------|-----------------------|
| Type of protective cover | Well Vault | |
| Height of Guard Pipe above ground surface | 3.1 ft | |
| Height of top of riser above ground surface | 2.7 ft | |
| Type of protective casing | Guard Pipe | |
| Length | 5.0 ft | |
| Inside diameter | 8.5 in | |
| Depth of bottom of Guard Pipe | 1.9 ft | |
| Type of riser pipe | Schedule 40 PVC | |
| Inside diameter of riser pipe | 4.0 in | |
| Depth of bottom of riser pipe | 115.0 ft | |
| Type of Seals | Top of Seal (ft) | Thickness (ft) |
| Grout | 1.0 | 104.0 |
| Bentonite | 105.0 | 5.0 |
| Bentonite | 187.0 | 17.0 |
| Diameter of borehole | 8.5 in | |
| Depth to top of well screen | 115.0 ft | |
| Type of screen | Machine slotted Sch 40 PVC | |
| Screen gauge or size of openings | 0.020 in. | |
| Diameter of screen | 4.0 in | |
| Type of Backfill around Screen | No. 8-12 Co. Silica Sand | |
| Depth to bottom of well screen | 180 ft | |
| Bottom of silt trap | 185.0 ft | |
| Depth of bottom of borehole | 204.0 ft | |

GROUNDWATER OBSERVATION WELL INSTALLATION REPORT

Well No. TTU-11
Boring No. TTU-11

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor Yellow Jacket Drilling
Driller Butch Eldred

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

File No. 39014
Date Installed 11 Sep 2015
H&A Rep. B. Kienerberger
Location See Plan

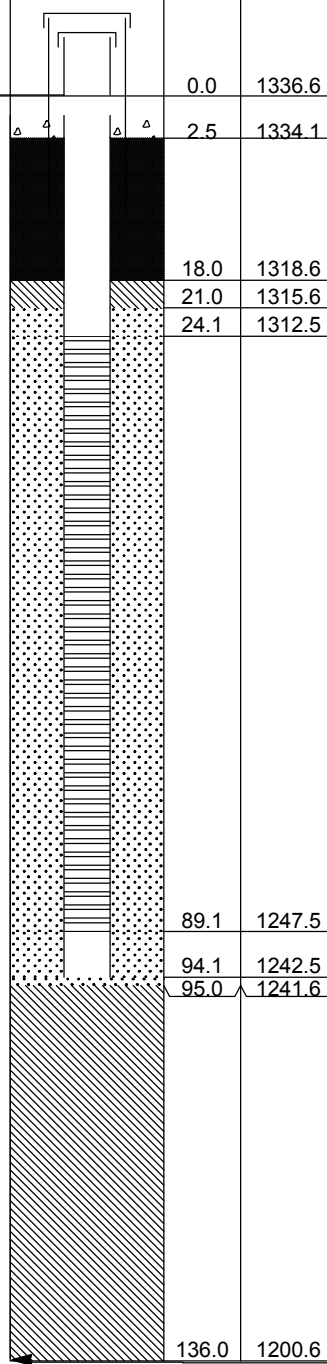
Ground El. 1336.6
Datum NAVD 88

Initial Water Level (depth bgs) 33.8 ft

GW INSTALLATION REPORT-07-1 HA-LIB07-1-BOS.GLB HA-LIB07-1-BOS.GLB HA-TB+CORE+WELL-07-1.GDT G:\PROJECTS\NAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\2015_2016_XJWELLS.GPJ Jul 15, 16

| SOIL/ROCK | | GRAPHIC | WELL DETAILS | DEPTH (ft.) | ELEVATION (ft.) | WELL CONSTRUCTION DETAILS |
|--|----------------|---------|-----------------|----------------|--------------------|--|
| CONDITIONS | DEPTH (ft.) | | | | | |
| 0 | | | 0.0 | 1336.6 | | Type of protective cover <u>Well Vault</u> |
| 5 | 1.0 | Δ Δ Δ Δ | 2.5 | 1334.1 | | Height of Guard Pipe above ground surface <u>3.0 ft</u> |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> SILTY SAND WITH GRAVEL Dark brown, dry. </div> | | | | | | Height of top of riser above ground surface <u>2.6 ft</u> |
| | | | | | | Type of protective casing <u>Guard Pipe</u> |
| | | | | | | Length <u>5.0 ft</u> |
| 10 | | | 18.0 | 1318.6 | | Inside diameter <u>12.5 in.</u> |
| 15 | | | 21.0 | 1315.6 | | Depth of bottom of Guard Pipe <u>2.0 ft</u> |
| 20 | | | 24.1 | 1312.5 | | Type of riser pipe <u>Schedule 40 PVC</u> |
| 25 | | | | | | Inside diameter of riser pipe <u>4.0 in</u> |
| 30 | | | | | | Depth of bottom of riser pipe <u>24.1 ft</u> |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |
| 55 | | | | | | |
| 60 | | | | | | <u>Type of Seals</u> <u>Top of Seal (ft)</u> <u>Thickness (ft)</u> |
| 65 | | | | | | <u>Grout</u> <u>2.5</u> <u>15.5</u> |
| 70 | | | | | | <u>Bentonite</u> <u>18.0</u> <u>3.0</u> |
| 75 | | | | | | <u>Bentonite</u> <u>95.0</u> <u>41.0</u> |
| 80 | | | | | | |
| 85 | | | | | | Diameter of borehole <u>8.0 in</u> |
| 90 | | | 89.1 | 1247.5 | | Depth to top of well screen <u>24.1 ft</u> |
| 95 | | | 94.1 | 1242.5 | | Type of screen <u>Machine slotted Sch 40 PVC</u> |
| 100 | | | 95.0 | 1241.6 | | Screen gauge or size of openings <u>0.020 in.</u> |
| 105 | | | | | | Diameter of screen <u>4.0 in</u> |
| 110 | | | | | | Type of Backfill around Screen <u>No. 8-12 Co. Silica Sand</u> |
| 115 | | | | | | Depth to bottom of well screen <u>89.1 ft</u> |
| 120 | | | | | | |
| 125 | | | | | | Bottom of silt trap <u>N/A</u> |
| 130 | | | | | | |
| 135 | | | 136.0 | 1200.6 | | Depth of bottom of borehole <u>136.0 ft</u> |

BEDROCK
Moderately weathered to unweathered granitic bedrock.



TTU-12

Location: TPU- B 12
 Date: 7/19/18
 Geologist: S. Hensel
 Borehole Diameter: 5in

Drilling Company and Rig: Resilient Drilling
 Drilling and Sampling Method: Open hole HSD/Air rotary
 Backfill Material: _____

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|---|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|------------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 0-15 | SW-SM well graded sand w/ silt | SW-SM | 10 | 30 | 20 | 30 | 10 | 10mm | A-SA | A-SA | None | None | - | St |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 2.5 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|------------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|------------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 15-20 | S. Hy sand | SM | 10 | 50 | 20 | 20 | 10 | 12mm | A-SA | A-SA | None | None | - | Wk |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 2.5 yr 4/3 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|----------------------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|------------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 20-25 | Silty sand w/ gravel | SM | 30 | 40 | 15 | 10 | 10 | 11mm | A-SA | A-SA | None | None | - | Wk |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 2.5 yr 4/3 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|--|-------------------------------------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-----------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 25-60 | well graded gravel with silt + sand | GW-GM | 55 | 15 | 15 | 10 | 5 | 12mm | A-SA | A-SA | None | None | - | Non |
| Comments: Granite - gravel consists of GZ + GZ + clay - decomposed | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 10 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------------------------------|---------------------------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-----------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 60-65 | well graded gravel w/sand | GW-GM | 60 | 15 | 10 | 5 | 10 | 22mm | A-SA | A-SA | None | None | - | Wk |
| Comments: Granite - decomposed | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 10 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------------------------------|---------------------------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-----------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 85-105 | well graded gravel w/sand | GW-GM | 55 | 20 | 10 | 5 | 10 | 25mm | A-SA | A-SA | None | None | - | Wk |
| Comments: Granite - decomposed | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 10 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------------------------------|---------------------------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-----------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 105-140 | well graded gravel w/sand | GW-GM | 50 | 20 | 10 | 10 | 10 | 20mm | A-SA | A-SA | None | None | - | Wk |
| Comments: granite - decomposed | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 10 yr 4/4 | | |

Location: TTU-12

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|------------------------------|----------------------------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-----------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 140-148 | well graded gravel w/ sand | GW-GM55 | 55 | 20 | 10 | 10 | 5 | 22mm | A-SA | A-SA | None | None | - | White |
| Comments: Granite-decomposed | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | large | | 10 yr 1/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|-----------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| | | | | | | | | | | | | | | |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | | | | | | | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|-----------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| | | | | | | | | | | | | | | |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | | | | | | | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|-----------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| | | | | | | | | | | | | | | |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | | | | | | | | |

TTU-13

Location: TTU-13
 Date: 7/20/14
 Geologist: S. Haxel
 Borehole Diameter: 5 in

Drilling Company and Rig: Resident Drilling
 Drilling and Sampling Method: Open hole HSA/Air rotary
 Backfill Material: _____

| Depth | USCS Name | USCS Symbol | % Gravel Coarse / Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|----------------------------|-------------|------------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|------------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 0-10 | well graded sand with silt | SW-SM | 5 | 30 | 25 | 25 | 15 | 13mm | A-SA | A-SA | None | None | - | Ag |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist Dry | | | loose | | 2.5 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse / Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|----------------------|-------------|------------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|------------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 10-20 | silty sand w/ gravel | SM | 25 | 35 | 20 | 10 | 10 | 22mm | A-SA | A-SR | None | None | - | Wk |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 2.5 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse / Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|--|--------------------------------------|-------------|------------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|------------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 20-30 | well graded gravel not silt and sand | GW-GM | 60 | 20 | 10 | 5 | 5 | 25mm | SA-SR | A-SA | None | None | - | Wk |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| Granite - gravel consists of Qtz - feldspar - plagioclase - decomposed | | | | | | | moist | | | loose | | 2.5 yr 4/4 | | |

Location: TTU-13

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------------------------------|----------------------------|--|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-----------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 30-45 | well graded gravel w/ sand | G U -600 G U -60M | 70 | 10 | 10 | 5 | 5 | 20mm | A-SA | A-SA | None | None | - | None |
| Comments: Granite - decomposed | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 10 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------------------------------|----------------------------|--|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-----------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| 45-80 | well graded gravel w/ sand | G U -60 G U -6M | 60 | 20 | 10 | 5 | 5 | 18mm | A-SA | A-SA | None | None | - | wk |
| Comments: Granite - decomposed | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | moist | | | loose | | 10 yr 4/4 | | |

| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|-----------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| | | | | | | | | | | | | | | |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | | | | | | | | |








| Depth | USCS Name | USCS Symbol | % Gravel Coarse /Fine | % SAND | | | % Fines | Coarse-Grained Information | | | Fine-Grained Information | | | HCL Rxn |
|-----------|-----------|-------------|-----------------------|--------|----------|----|--------------------------------|----------------------------|--------------|-------------|--------------------------|-------|-----------------|---------|
| | | | | CRS | MED | FN | | Max. | Gravel Round | Sand Round | Plastic | Tough | Dilat/ Dry Strg | |
| | | | | | | | | | | | | | | |
| Comments: | | | Hardness | | PID/Odor | | Moisture/Shape/Hardness/Cement | | | Consistency | | Color | | |
| | | | | | | | | | | | | | | |

**GROUNDWATER OBSERVATION WELL
INSTALLATION REPORT**

Well No. TTU-14
Boring No. TTU-14

Project Nammo Talley TTU Closure
Location Mesa, AZ
Client Nammo Talley
Contractor Resilient Drilling
Driller

Well Diagram

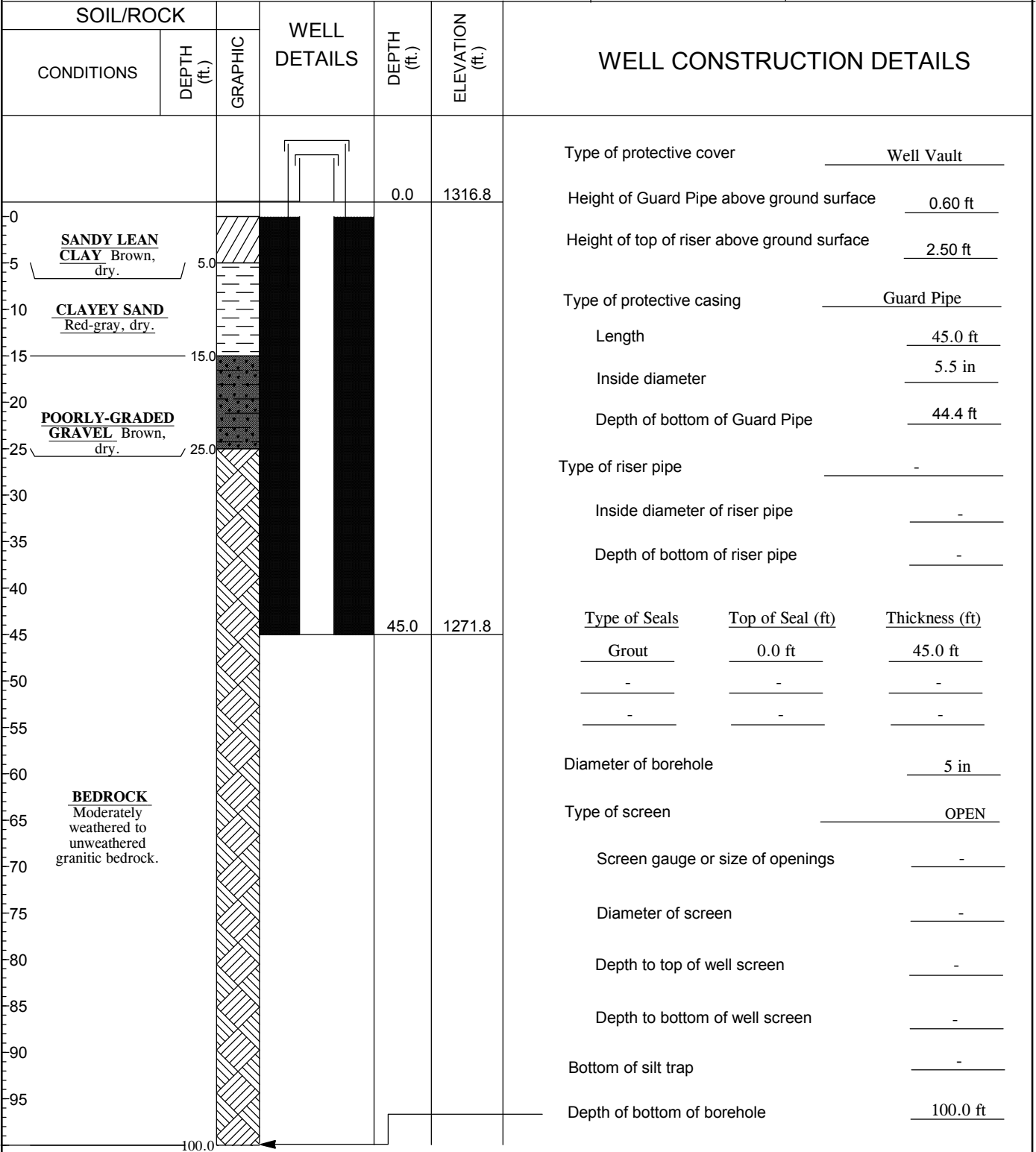
-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

File No. 39014
Date Installed 19 Jul 2018
H&A Rep. S. Hensel
Location See Plan

Ground El. 1316.8
Datum NAVD 88

Initial Water Level (depth bgs) 54.3 ft

HA-LIB07-1-SDG.GLB GW INSTALLATION REPORT-07-1 HA-TB-CORE-WELL-07-1.GDT G:\PROJECT\SINAMMO TALLEY\39014-TTU CLOSURE\PROJECT DATA\GINT\NAMMOTALLEYTTUWELLLOGS - COPY.GPJ Aug 28, 18



COMMENTS: -

TTU-15



Arizona Department of Water Resources
 Water Management Division
 P.O. Box 36020 Phoenix, Arizona 85067-6020
 (602) 771-8627 • (602) 771-8690 fax
 • www.azwater.gov •

**Well Driller Report
 and
 Well Log**

THIS REPORT MUST BE FILED WITHIN **30 DAYS** OF COMPLETING THE WELL.
 PLEASE PRINT CLEARLY USING BLACK OR BLUE INK.

FILE NUMBER
 WELL REGISTRATION NUMBER
55 - 228014
 PERMIT NUMBER (IF ISSUED)

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm

| | | | |
|-----------------|---|---|--------------------|
| Mail To: | NAME Resilient Drilling Services, LLC | DWR LICENSE NUMBER 855 | RECEIVED |
| | ADDRESS 2615 S. 40th St., Suite B | TELEPHONE NUMBER (602) 218-8848 | APR 05 2018 |
| | CITY / STATE / ZIP Phoenix, AZ 85034 | FAX (844) 265-4426 | ADWR |

SECTION 2. REGISTRY INFORMATION

| | | | | | | | |
|---|------------------------------|---|-----------------------------|----------------------|---------------------------|--------------------------|--------------------------|
| Well Owner | | Location of Well | | | | | |
| FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL Nammo Talley, Inc. | | WELL LOCATION ADDRESS (IF ANY) | | | | | |
| MAILING ADDRESS P.O. Box 34299 | | TOWNSHIP (N/S) 2 N | RANGE (E/W) 6 E | SECTION 23 | 160 ACRE NE 1/4 | 40 ACRE SW 1/4 | 10 ACRE SW 1/4 |
| CITY / STATE / ZIP CODE Mesa, AZ 85277-4299 | | LATITUDE | | | LONGITUDE | | |
| CONTACT PERSON NAME AND TITLE Brad Anderer, Health, Environmental & Safety Mgr. | | METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade | | | | | |
| TELEPHONE NUMBER (480) 898-2600 | FAX (480) 898-2410 | LAND SURFACE ELEVATION AT WELL <div style="text-align: right;">Feet Above Sea Level</div> | | | | | |
| WELL NAME (e.g., MW-1, PZ-3, Lot 25 Well, Smith Well, etc.) TTU-15 | | METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade *GEOGRAPHIC COORDINATE DATUM (CHECK ONE) <input type="checkbox"/> NAD-83 <input type="checkbox"/> Other (please specify): | | | | | |
| | | COUNTY Maricopa - ASLD | ASSESSOR'S PARCEL ID NUMBER | | | | |
| | | | BOOK 141 | MAP 91 | PARCEL 146 | | |

SECTION 3. WELL CONSTRUCTION DETAILS

| | | |
|--|---|---|
| Drill Method | Method of Well Development | Method of Sealing at Reduction Points |
| CHECK ALL THAT APPLY <input type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input checked="" type="checkbox"/> Other (please specify): Tubex 115mm | CHECK ALL THAT APPLY <input type="checkbox"/> Airlift <input checked="" type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify): Condition of Well CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Pump Installed | CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input type="checkbox"/> Other (please specify): <div style="text-align: center;">N/A</div> Construction Dates DATE WELL CONSTRUCTION STARTED 12/5/2017 DATE WELL CONSTRUCTION COMPLETED 1/25/2018 |

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

| | |
|---|------------------------|
| SIGNATURE OF QUALIFYING PARTY <i>Mark Allen For Greg Jones</i> | DATE 3/14/18 |
|---|------------------------|

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 228014

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

| Depth | | |
|-----------------|-------------------------------------|--|
| DEPTH OF BORING | 100' Feet Below Land Surface | DEPTH OF COMPLETED WELL 100' Feet Below Land Surface |

Water Level Information

| | | | |
|---|-----------------------------------|---------------|--|
| STATIC WATER LEVEL Approx 30' Feet Below Land Surface | DATE MEASURED 12/6/2017 | TIME MEASURED | IF FLOWING WELL, METHOD OF FLOW REGULATION <input type="checkbox"/> Valve <input type="checkbox"/> Other: |
|---|-----------------------------------|---------------|--|

| Borehole | | | Installed Casing | | | | | | | | | | | | | | | |
|--------------------|-----------|----------------------------|--------------------|-----------|-------------------------|---------------------|-----|-----|-------------------------|------------------------|-----------|----------------|-------------|---------|---------------------------|-------------------------|--|--|
| DEPTH FROM SURFACE | | BOREHOLE DIAMETER (inches) | DEPTH FROM SURFACE | | OUTER DIAMETER (inches) | MATERIAL TYPE (T) | | | | PERFORATION TYPE (T) | | | | | SLOT SIZE IF ANY (inches) | | | |
| FROM (feet) | TO (feet) | | FROM (feet) | TO (feet) | | STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | | IF OTHER TYPE, DESCRIBE | | |
| 0' | 10' | 10" | 0' | 10' | 5" | x | | | | | | | | | | | | |
| 10' | 100' | 4.5" | Open Hole | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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Installed Annular Material

| DEPTH FROM SURFACE | | ANNULAR MATERIAL TYPE (T) | | | | | | | FILTER PACK | | | | |
|--------------------|-----------|-----------------------------|----------|-----------------------------|------------------------|-----------|-------|---------|---|------|--------|------|--|
| FROM (feet) | TO (feet) | NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE | | | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | SAND | GRAVEL | SIZE | |
| | | | | | | GROUT | CHIPS | PELLETS | | | | | |
| 0' | 10' | | | x | | | | | | | | | |
| | | | | | | | | | | | | | |
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SECTION 5. GEOLOGIC LOG OF WELL

| DEPTH FROM SURFACE | | Description Describe material, grain size, color, etc. | Check (T) every interval where water was encountered (if known) |
|--------------------|-----------|---|---|
| FROM (feet) | TO (feet) | | |
| 0' | 10' | Gravelly Sand | |
| 10' | 100' | Granite | |
| | | | |
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Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 228014

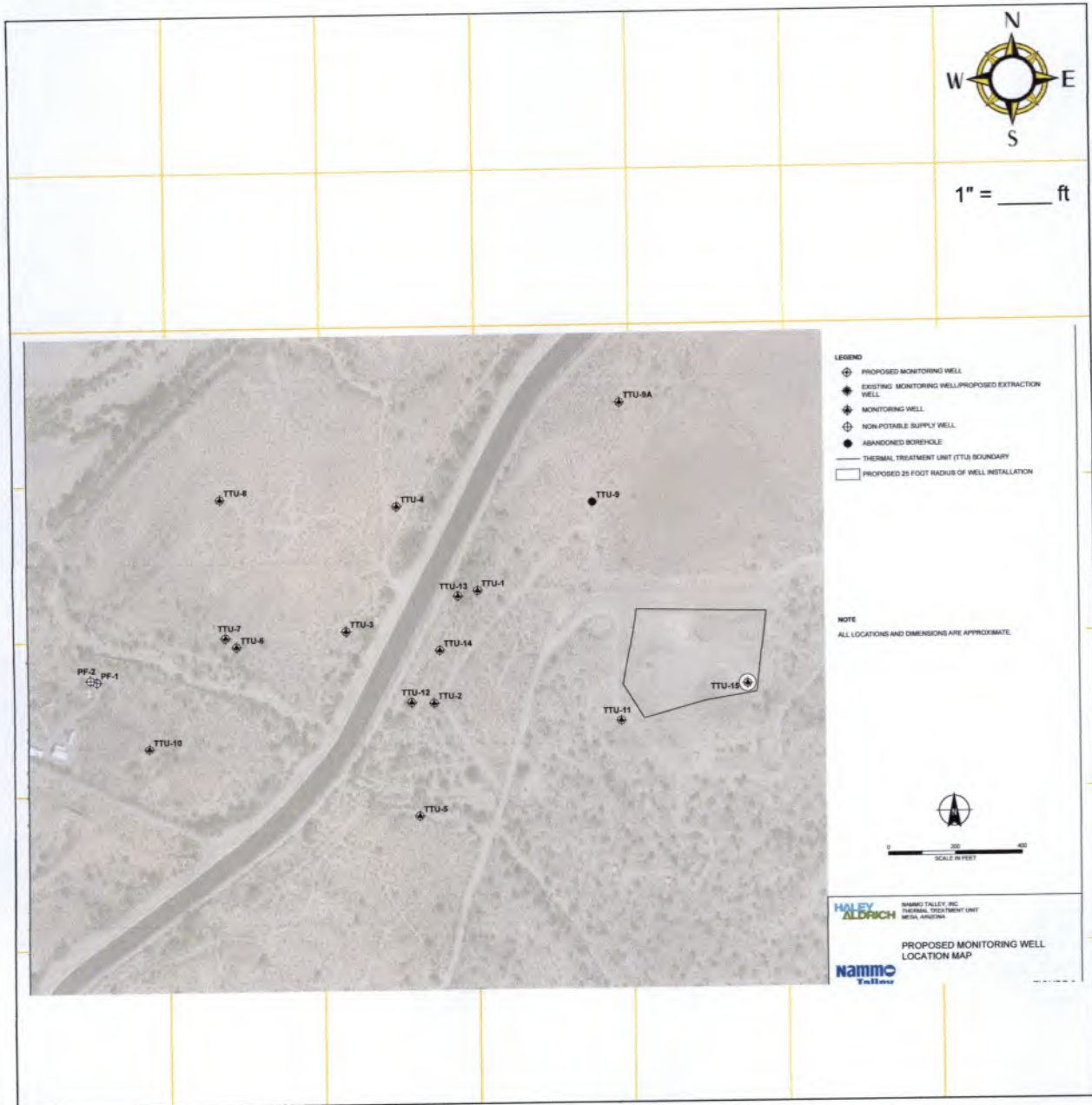
SECTION 6. WELL SITE PLAN

NAME OF WELL OWNER
Nammo Talley, Inc.

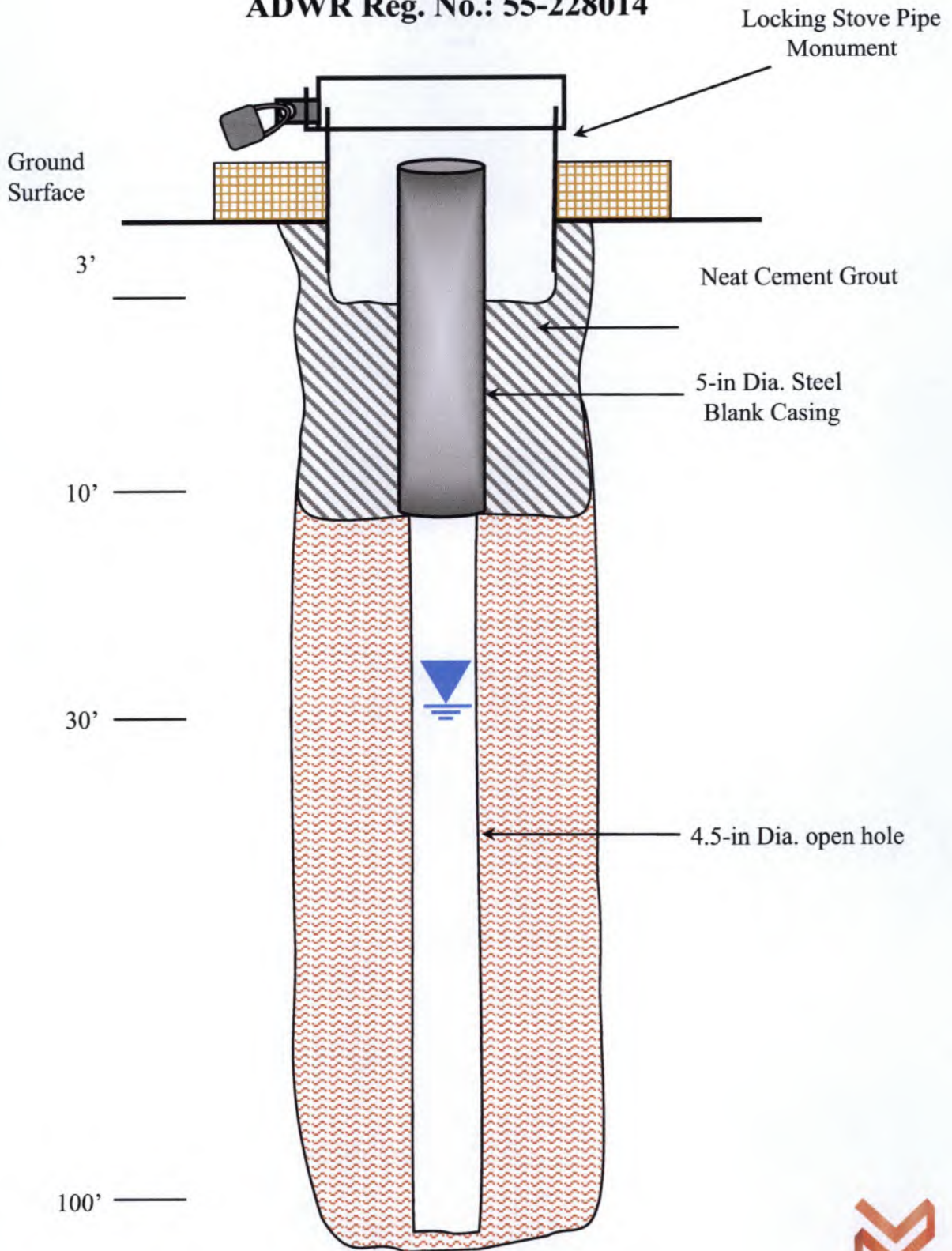
COUNTY ASSESSOR'S PARCEL ID NUMBER

| | | |
|-------------------------|------------------|----------------------|
| BOOK ASLD 141 | MAP 91 | PARCEL 146 |
|-------------------------|------------------|----------------------|

- ❖ Please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- ❖ Please indicate the distance between the well location and any septic tank system or sewer system.

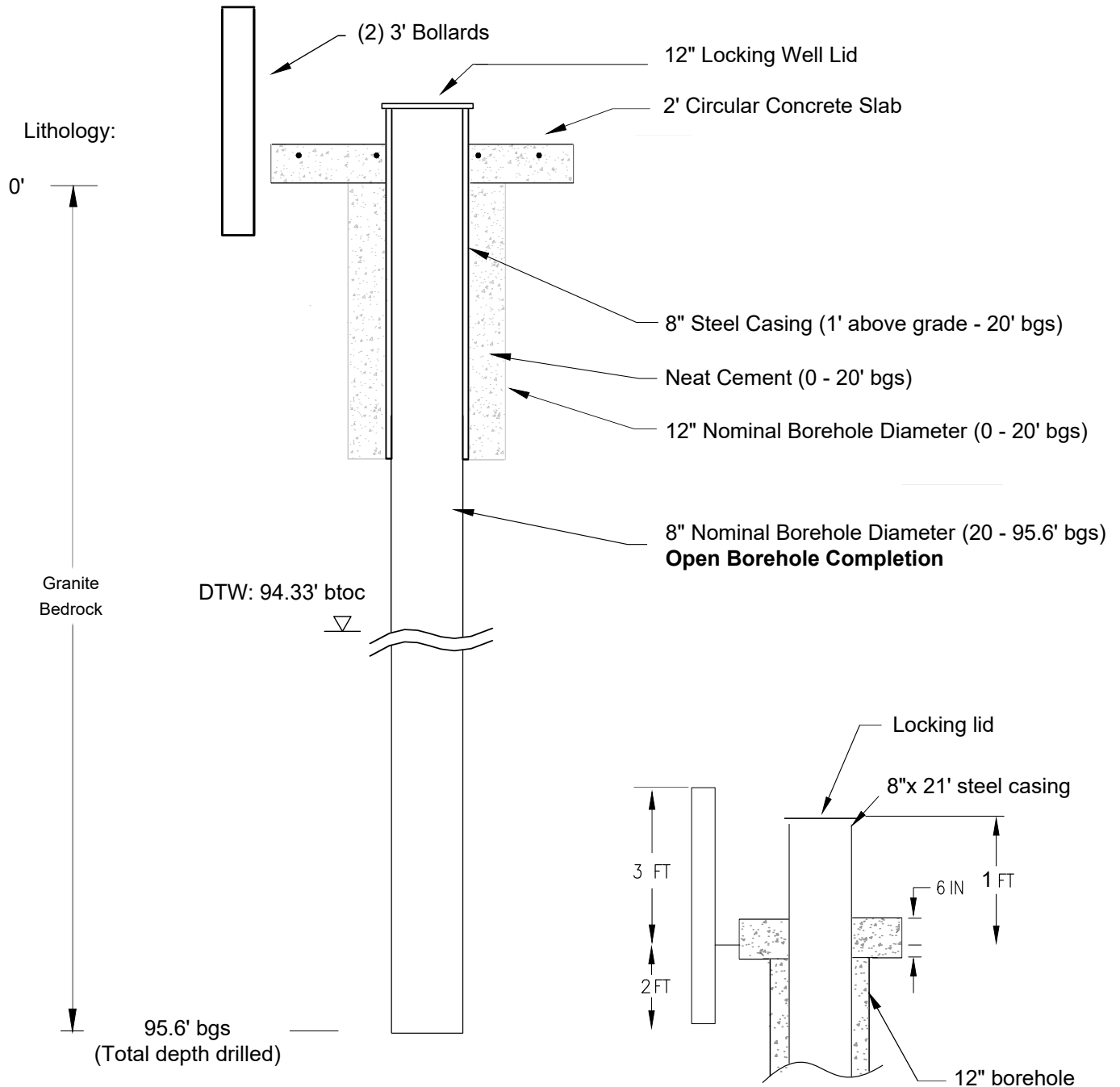


Well Completion Diagram
Well ID: TTU-15
ADWR Reg. No.: 55-228014



Not to Scale

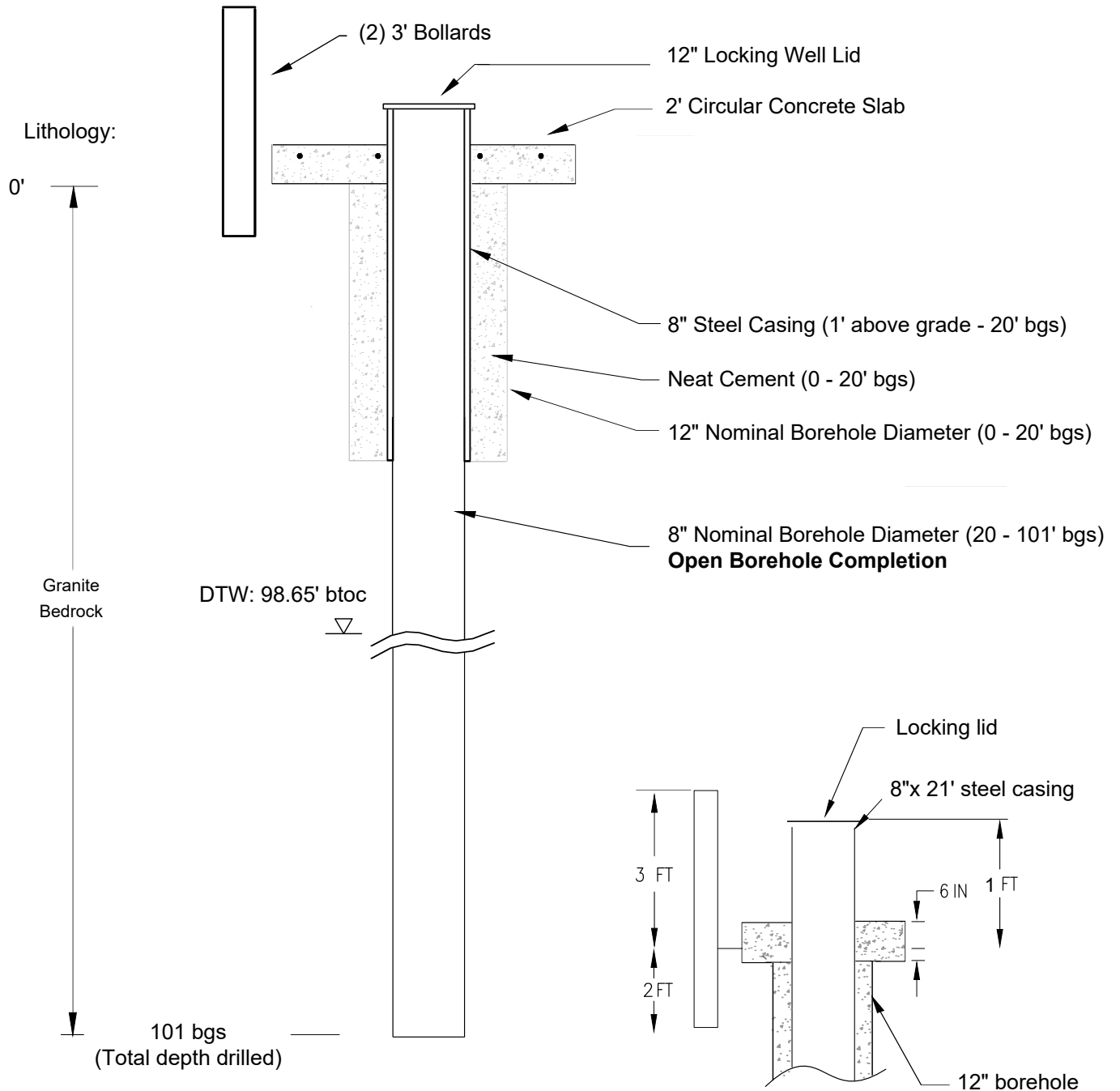
| | | |
|--|---|---|
| Drilling Start Date: 01/27/2020 | Boring Depth (ft): 95.6 | Well Depth (ft): 95.6 |
| Drilling End Date: 01/28/2020 | Boring Diameter (in): 12" to 20', 8" to 95.6' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): 94.33 | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1338.55 | Seal Material(s): N/A |
| Logged By: T. Luttermoser | Location (X,Y): 33.49894, -111.713776 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



TTU-16 Completion Detail

Not to Scale
DTW - depth to water
btoc - below top of casing
bgs - below ground surface

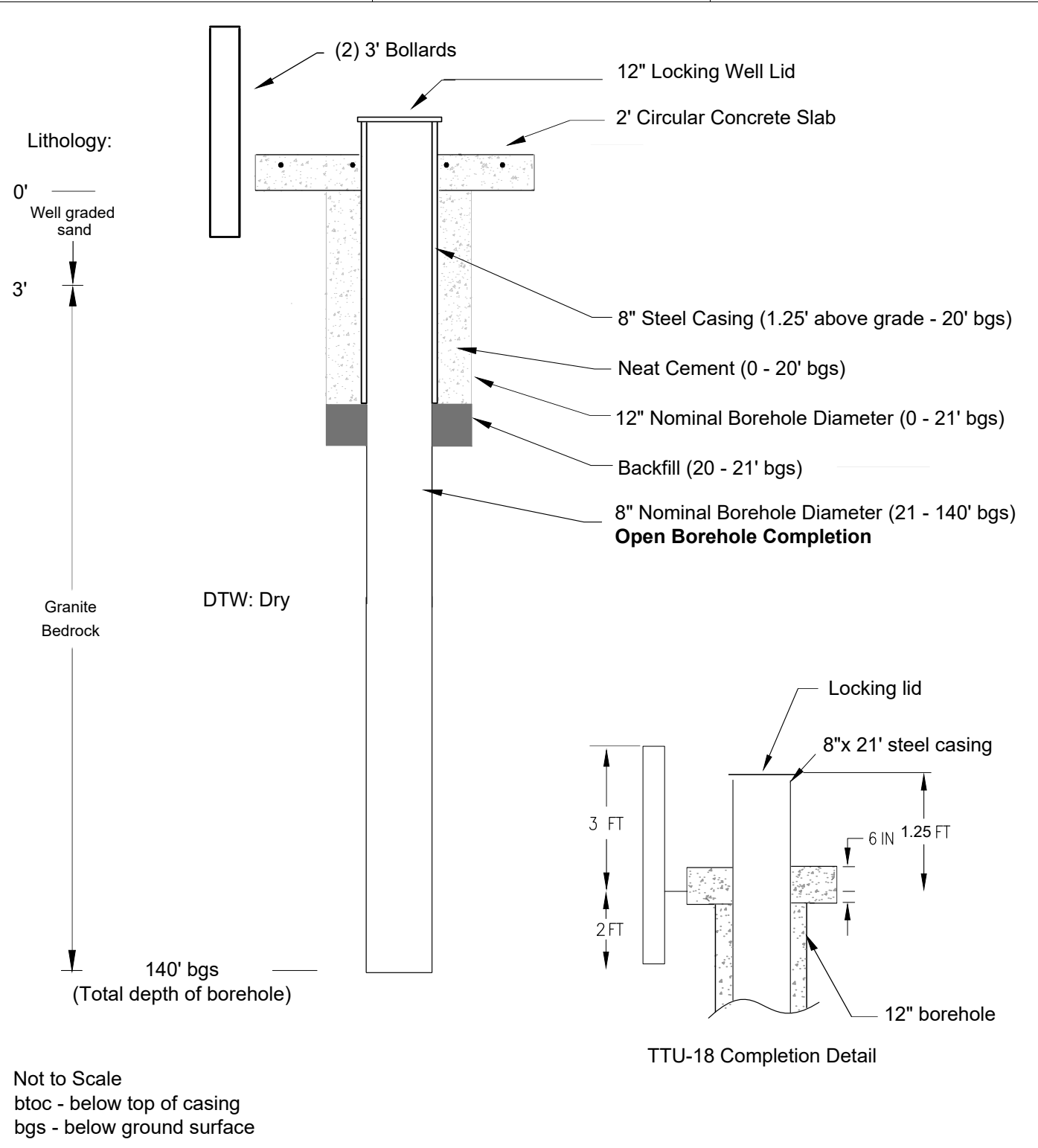
| | | |
|--|--|---|
| Drilling Start Date: 01/27/2020 | Boring Depth (ft): 101 | Well Depth (ft): 101 |
| Drilling End Date: 01/28/2020 | Boring Diameter (in): 12" to 20', 8" to 101' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): 98.65 | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1347.49 | Seal Material(s): N/A |
| Logged By: T. Luttermoser | Location (X,Y): 33.499614, -111.712691 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



Not to Scale
DTW - depth to water
btoc - below top of casing
bgs - below ground surface

TTU-17 Completion Detail

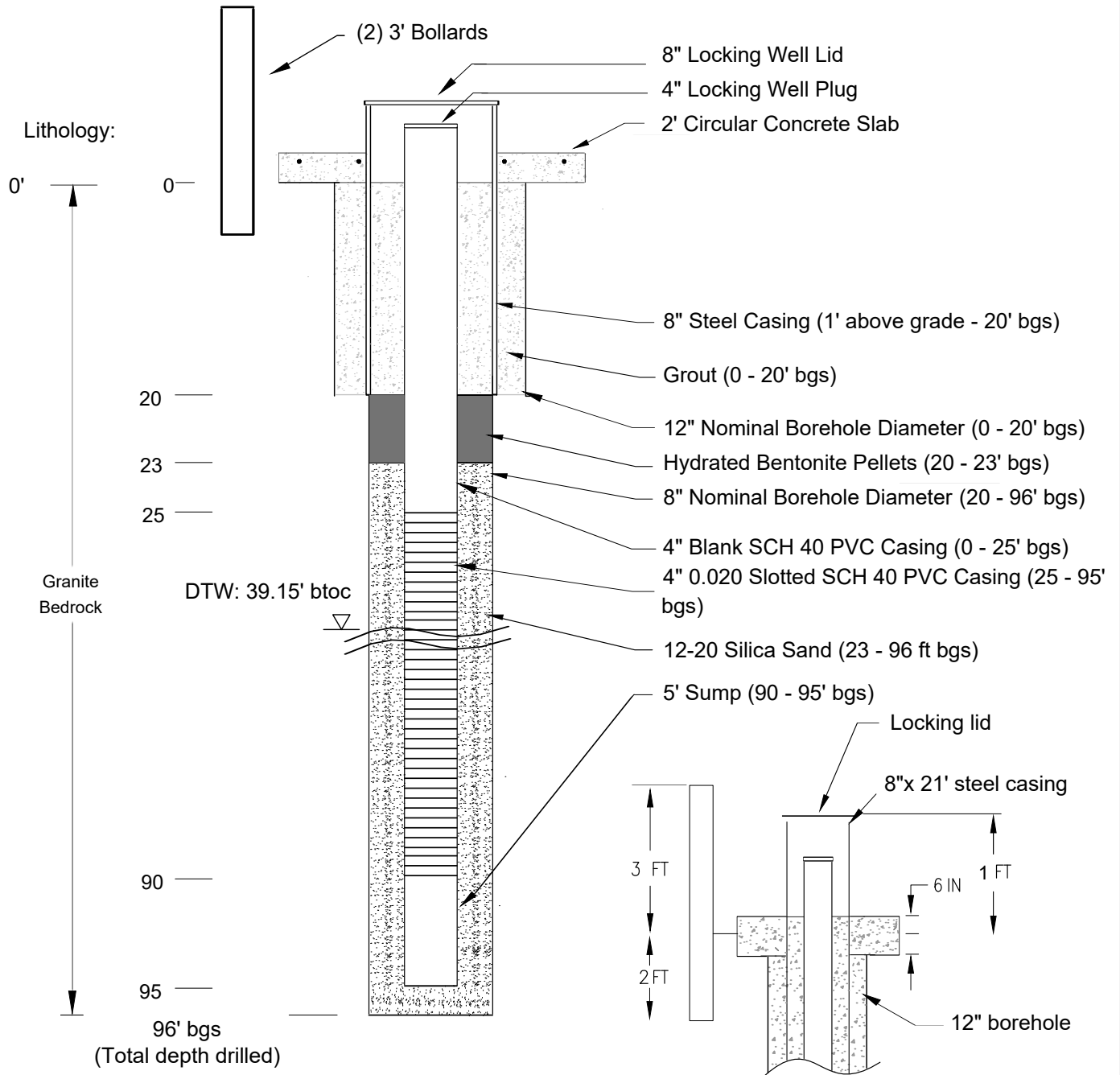
| | | |
|--|--|---|
| Drilling Start Date: 01/22/2020 | Boring Depth (ft): 140 | Well Depth (ft): 140 |
| Drilling End Date: 01/25/2020 | Boring Diameter (in): 12" to 21', 8" to 140' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): dry | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1320.25 | Seal Material(s): N/A |
| Logged By: M. Williams | Location (X,Y): 33.496445, -111.716139 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



Drilling Start Date: 09/22/2020
Drilling End Date: 09/24/2020
Drilling Company: Integrity Drilling Services, LLC.
Drilling Method: Air Rotary
Drilling Equipment: Foremost DR-24
Driller: C. Ashley
Logged By: T. Luttermoser

Boring Depth (ft): 96
Boring Diameter (in): 12" to 20", 8" to 96"
Sampling Method(s): grab
DTW During Drilling (ft): dry
DTW After Drilling (ft): 50
Top of Casing Elev. (ft): 1336.67
Location (X,Y): 33.498682, -111.714305

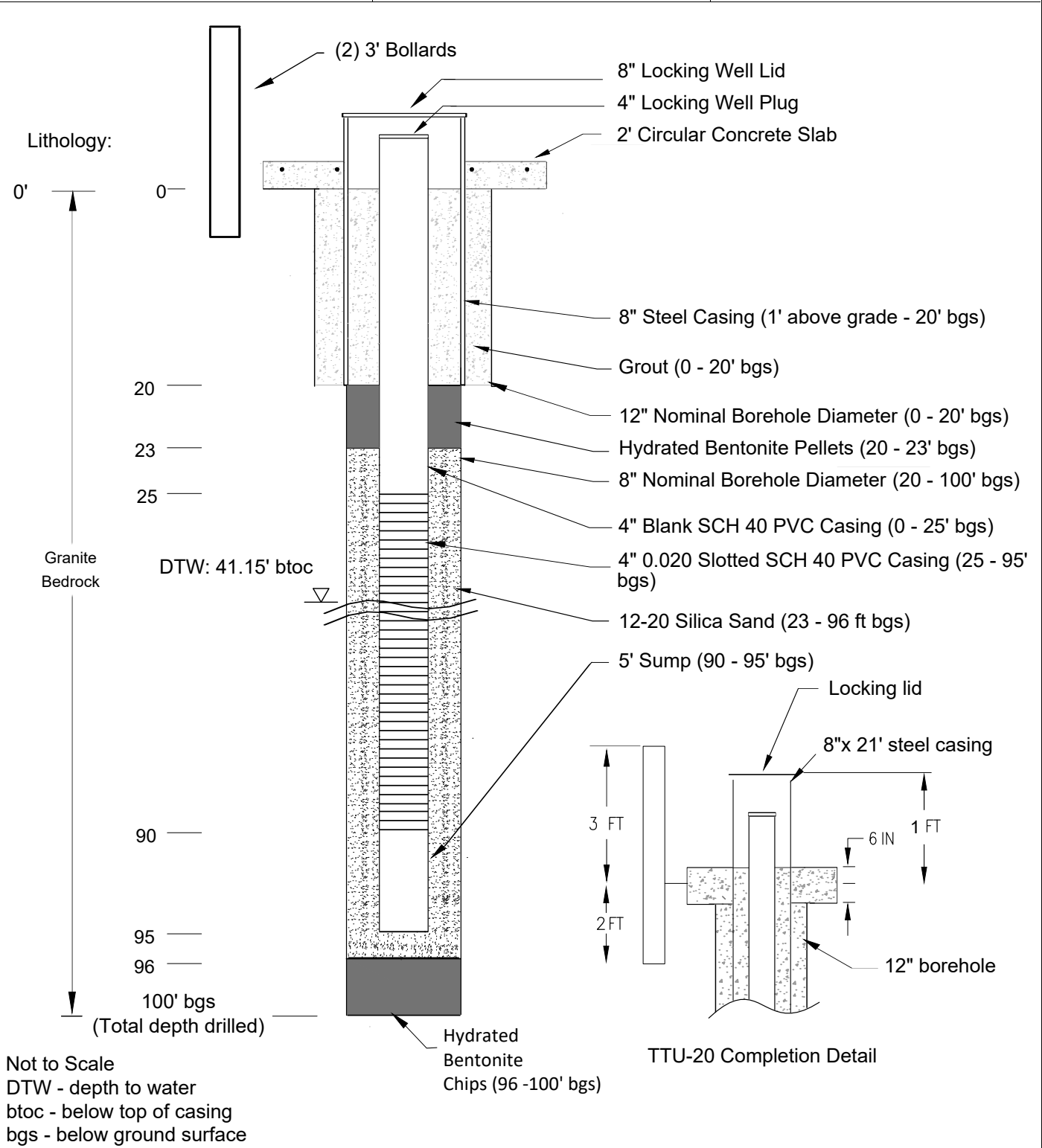
Well Depth (ft): 95
Well Diameter (in): 4
Screen Slot (in): 0.020
Riser Material: PVC
Screen Material: PVC
Seal Material(s): Bent. Pellets, Grout
Filter Type: 12-20 Silica Sand



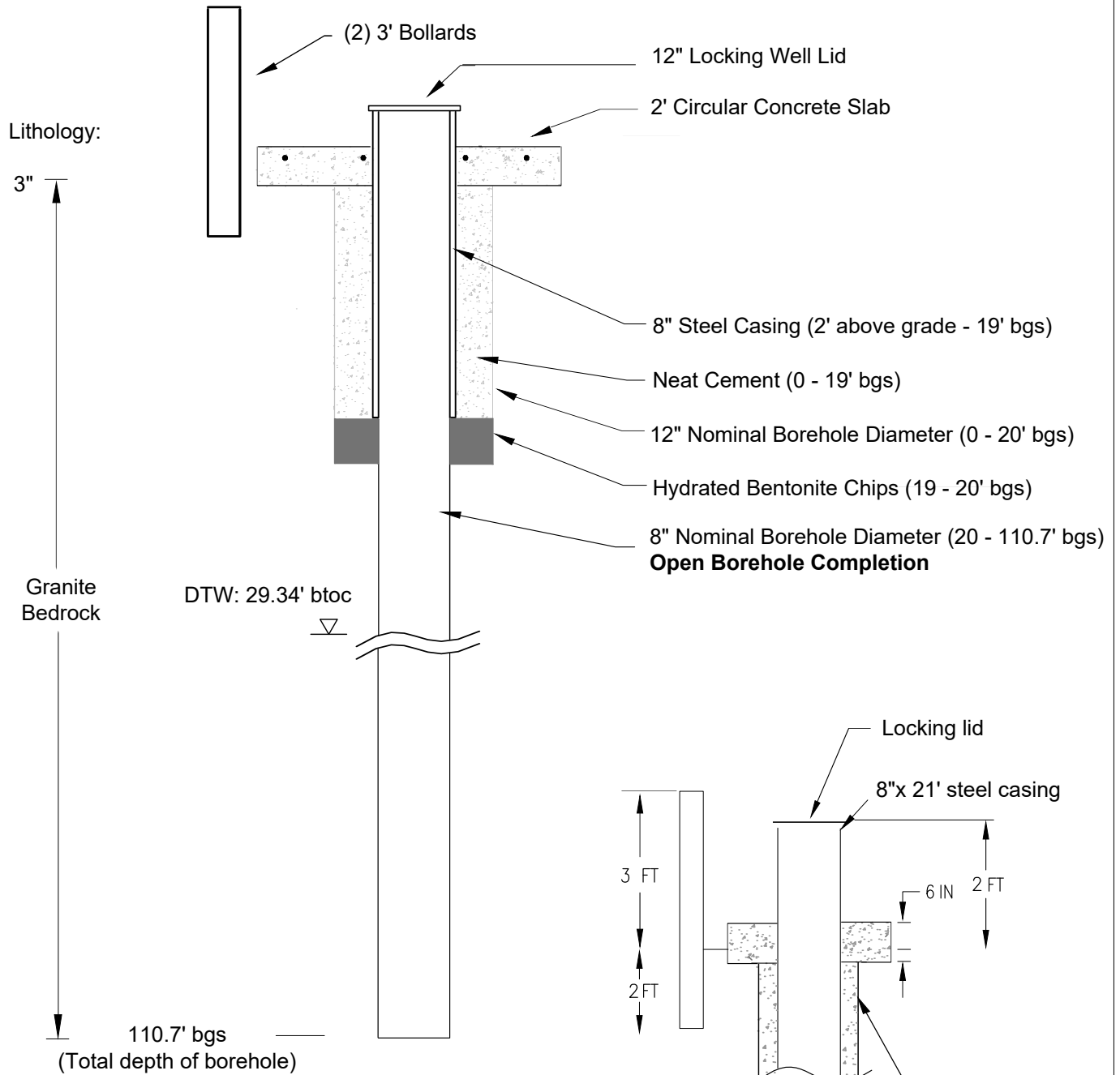
Not to Scale
DTW - depth to water
btoc - below top of casing
bgs - below ground surface

TTU-19 Completion Detail

| | | |
|---|--|--|
| Drilling Start Date: 09/21/2020 | Boring Depth (ft): 100 | Well Depth (ft): 95 |
| Drilling End Date: 09/24/2020 | Boring Diameter (in): 12" to 20', 8" to 100' | Well Diameter (in): 4 |
| Drilling Company: Integrity Drilling Services, LLC. | Sampling Method(s): grab | Screen Slot (in): 0.020 |
| Drilling Method: Air Rotary | DTW During Drilling (ft): dry | Riser Material: PVC |
| Drilling Equipment: Foremost DR-24 | DTW After Drilling (ft): 41.15 | Screen Material: PVC |
| Driller: C. Ashley | Top of Casing Elev. (ft): 1336.76 | Seal Material(s): Bent. Pellets, Grout |
| Logged By: T. Luttermoser | Location (X,Y): 33.498659, -111.714327 | Filter Type: 12-20 Silica Sand |



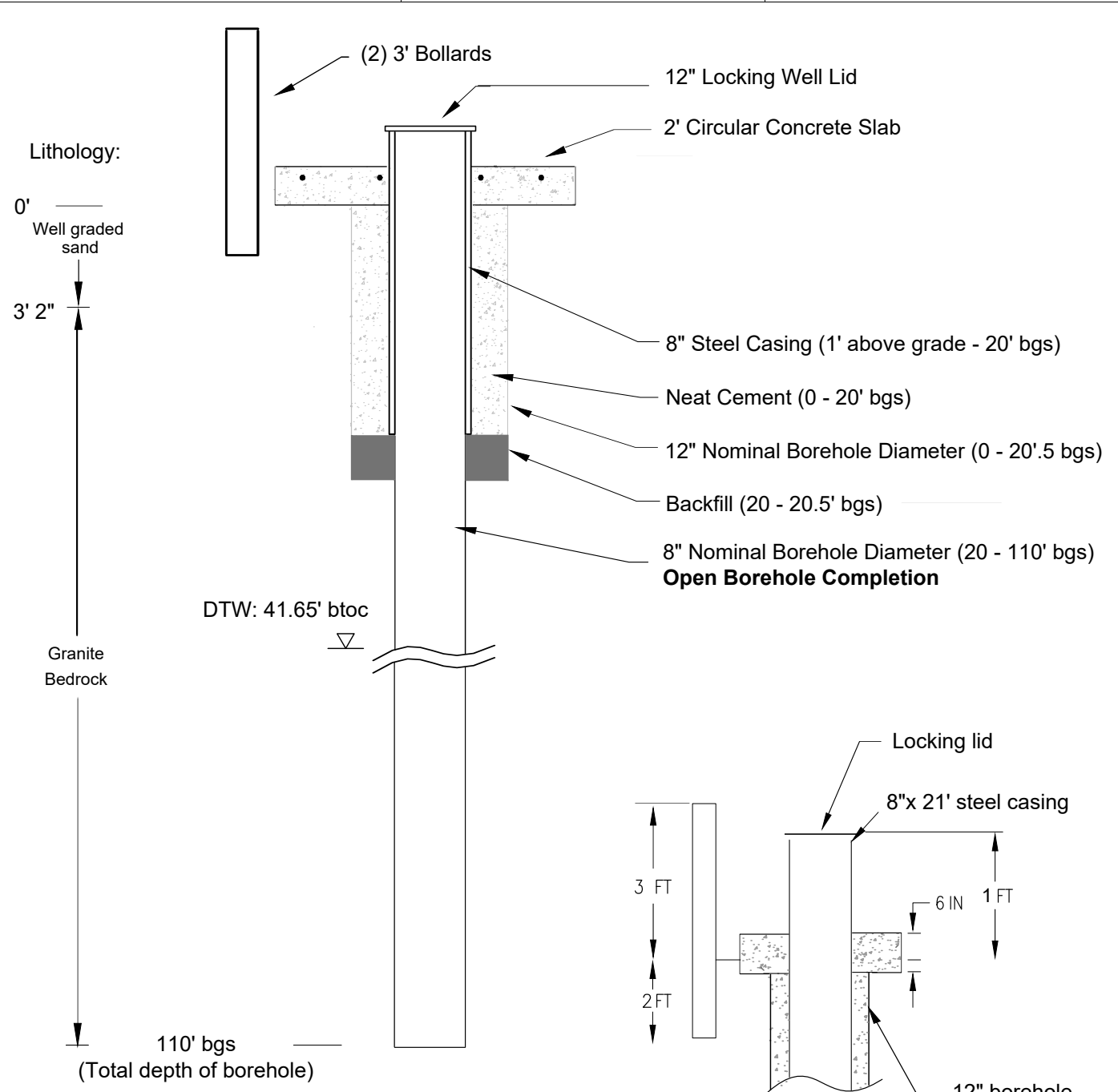
| | | |
|--|--|---|
| Drilling Start Date: 01/22/2020 | Boring Depth (ft): 110.7 | Well Depth (ft): 110.7' btoc |
| Drilling End Date: 01/25/2020 | Boring Diameter (in): 12" to 20', 8" to 110.7' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): 29.34 | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1321.69 | Seal Material(s): N/A |
| Logged By: M. Williams | Location (X,Y): 33.49944, -111.714722 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



TTU-EX-1 Completion Detail

DTW - depth to water
btoc - below top of casing
bgs - below ground surface

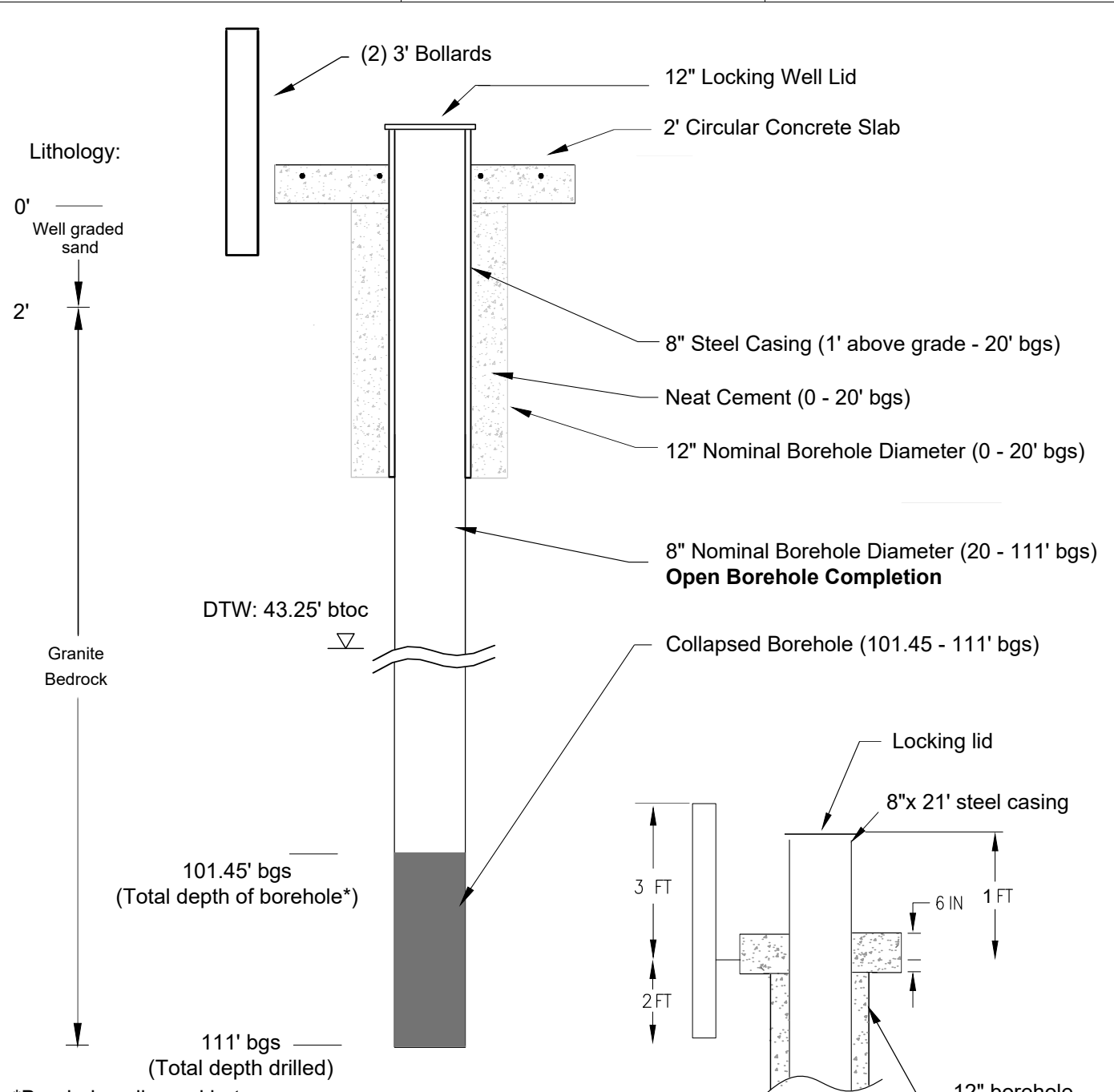
| | | |
|--|--|---|
| Drilling Start Date: 01/20/2020 | Boring Depth (ft): 110 | Well Depth (ft): 110 |
| Drilling End Date: 01/23/2020 | Boring Diameter (in): 12" to 20.5', 8" to 110' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): 41.65 | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1316.40 | Seal Material(s): N/A |
| Logged By: M. Williams | Location (X,Y): 33.499336, -111.714941 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



Not to Scale
DTW - depth to water
btoc - below top of casing
bgs - below ground surface

TTU-EX-2 Completion Detail

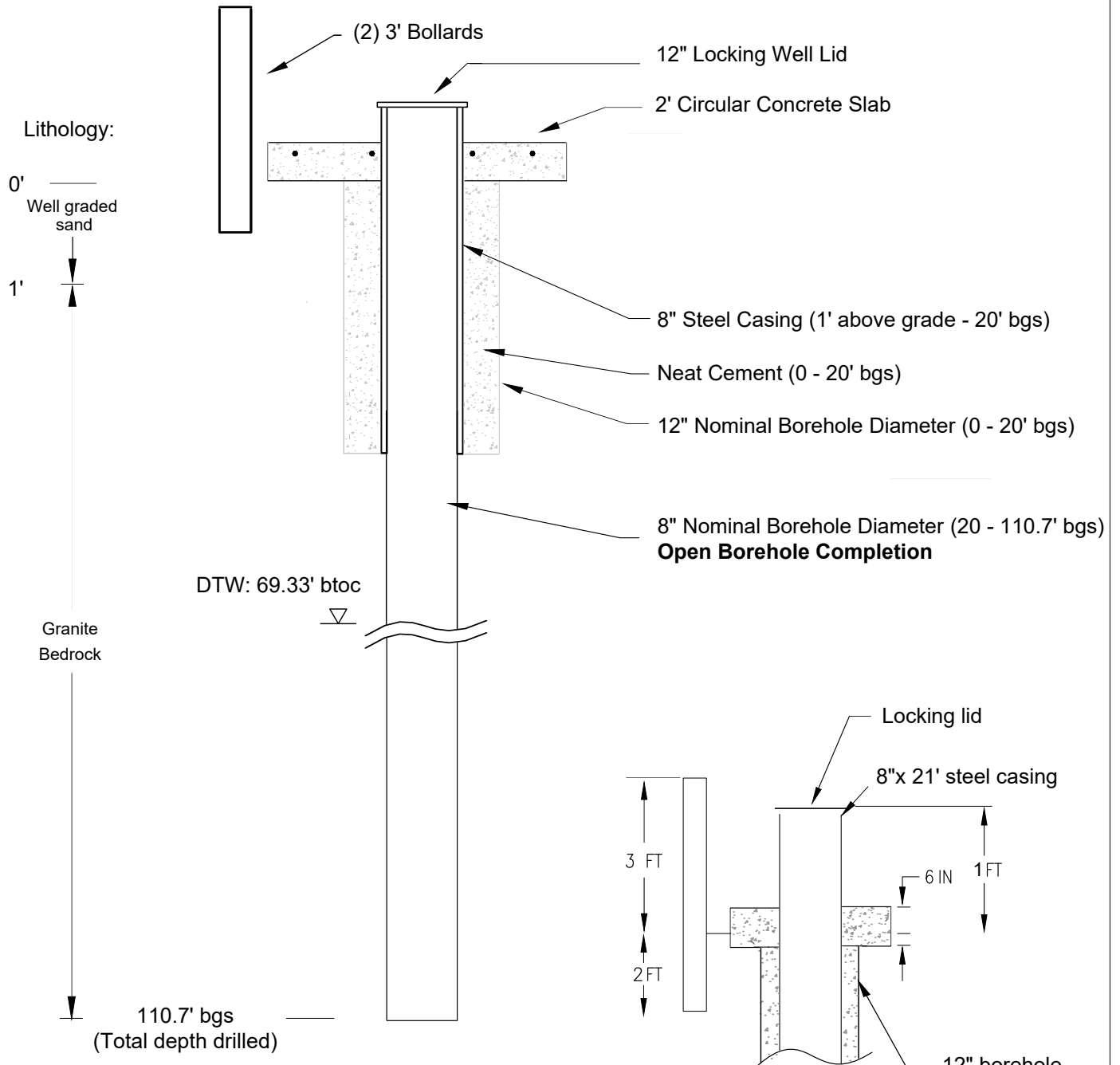
| | | |
|--|--|---|
| Drilling Start Date: 01/21/2020 | Boring Depth (ft): 111 | Well Depth (ft): 101.45 |
| Drilling End Date: 01/24/2020 | Boring Diameter (in): 12" to 20', 8" to 111' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): 43.25 | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1316.85 | Seal Material(s): N/A |
| Logged By: M. Williams | Location (X,Y): 33.49869, -111.715033 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



*Borehole collapsed between 1/27/2020 and 2/4/2020.
Not to Scale
DTW - depth to water
btoc - below top of casing
bgs - below ground surface

TTU-EX-3 Completion Detail

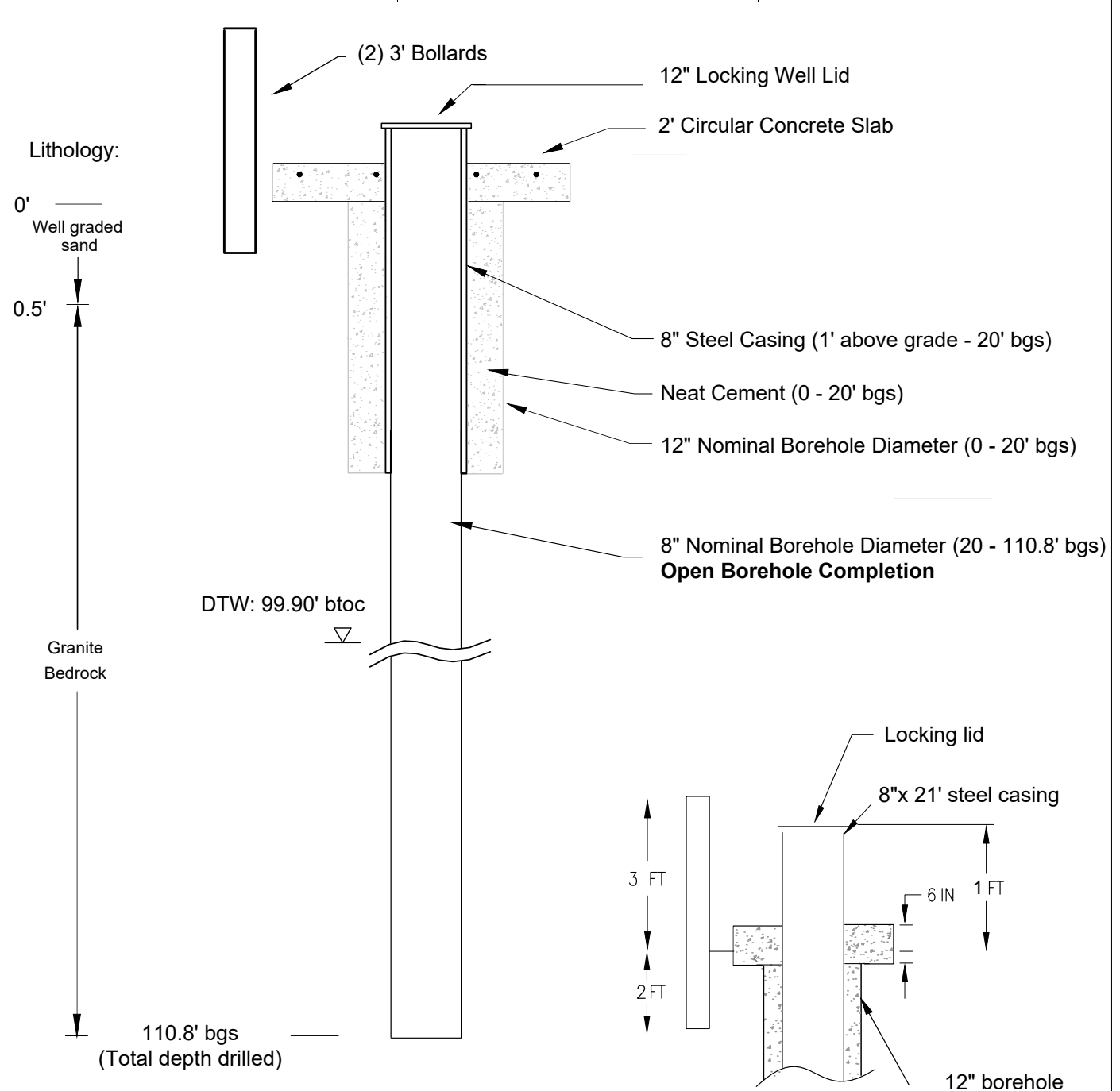
| | | |
|--|--|---|
| Drilling Start Date: 01/21/2020 | Boring Depth (ft): 110.7 | Well Depth (ft): 110.7' btoc |
| Drilling End Date: 01/24/2020 | Boring Diameter (in): 12" to 20', 8" to 110.7' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): 69.33 | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1319.96 | Seal Material(s): N/A |
| Logged By: M. Williams | Location (X,Y): 33.49874, -111.715108 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



TTU-EX-4 Completion Detail

Not to Scale
DTW - depth to water
btoc - below top of casing
bgs - below ground surface

| | | |
|--|--|---|
| Drilling Start Date: 01/22/2020 | Boring Depth (ft): 110.8 | Well Depth (ft): 110.8' btoc |
| Drilling End Date: 01/24/2020 | Boring Diameter (in): 12" to 20', 8" to 110.8' | Well Diameter (in): 8" |
| Drilling Company: Hard Core Drilling Professionals | Sampling Method(s): grab | Screen Slot (in): N/A |
| Drilling Method: ARCH | DTW During Drilling (ft): dry | Riser Material: N/A |
| Drilling Equipment: Speedstar 30K Truck | DTW After Drilling (ft): 99.90 | Screen Material: N/A |
| Driller: G. Gutierrez | Top of Casing Elev. (ft): 1319.50 | Seal Material(s): N/A |
| Logged By: M. Williams | Location (X,Y): 33.498493, -111.715173 | Filter Type: N/A |
| | | Not applicable, open borehole completion. |



Not to Scale
DTW - depth to water
btoc - below top of casing
bgs - below ground surface

PF-2



Well Driller Report and Well Log

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK.

SALT RIVER PIMA-MARICOPA

FILE NUMBER

WELL REGISTRATION NUMBER
55 -

PERMIT NUMBER (IF ISSUED)
SC-13-03866

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm

| | | |
|-----------------|---|---|
| Mail To: | NAME AZ PRESTON DRILLING, LLC | DWR LICENSE NUMBER #619 |
| | ADDRESS 895 E. PALM LANE | TELEPHONE NUMBER 480-986-6285 |
| | CITY / STATE / ZIP MESE, AZ 85207 | FAX |
| | | |

SECTION 2. REGISTRY INFORMATION

Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL
UNIVERSITY OF WASHINGTON

MAILING ADDRESS
4202 N. HIGLEY ROAD

CITY / STATE / ZIP CODE
MESE, AZ 85215

Location of Well

WELL LOCATION ADDRESS (IF ANY)

| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE |
|----------------|-------------|---------|---------------|---------------|---------------|
| | | | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |

LATITUDE

| | | | |
|---------|---------|---------|----|
| Degrees | Minutes | Seconds | "N |
| | | | |

LONGITUDE

| | | | |
|---------|---------|---------|----|
| Degrees | Minutes | Seconds | "W |
| | | | |

METHOD OF LATITUDE/LONGITUDE (CHECK ONE)

*GPS: Hand-Held *GPS: Survey-Grade

LAND SURFACE ELEVATION AT WELL

Feet Above Sea Level

METHOD OF ELEVATION (CHECK ONE)

*GPS: Hand-Held *GPS: Survey-Grade

*GEOGRAPHIC COORDINATE DATUM (CHECK ONE)

NAD-83 Other (please specify):

COUNTY

| ASSESSOR'S PARCEL ID NUMBER | | |
|-----------------------------|-----|--------|
| BOOK | MAP | PARCEL |

CONTACT PERSON NAME AND TITLE
KEN DURK / AZ BREEDING COLONY

TELEPHONE NUMBER
206-616-4318

FAX

WELL NAME (e.g., MW-1, PZ-3, Lot 25 Well, Smith Well, etc.)

SECTION 3. WELL CONSTRUCTION DETAILS

Drill Method

CHECK ALL THAT APPLY

Air Rotary

Bored or Augered

Cable Tool

Dual Rotary

Mud Rotary

Reverse Circulation

Driven

Jetted

Air Percussion / Odex Tubing

Other (please specify):

Method of Well Development

CHECK ALL THAT APPLY

Airlift

Bail

Surge Block

Surge Pump

Other (please specify):

Method of Sealing at Reduction Points

CHECK ONE

None

Packed

Swedged

Welded

Other (please specify):

Condition of Well

CHECK ONE

Capped

Pump Installed

Construction Dates

DATE WELL CONSTRUCTION STARTED
3-26-13

DATE WELL CONSTRUCTION COMPLETED
3-27-13

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY

DATE
3-27-13

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 -

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

| Depth | |
|--------------------------|---------------------------------|
| DEPTH OF BORING, 400' | DEPTH OF COMPLETED WELL 400' |
| Feet Below Land Surface | Feet Below Land Surface |

| Water Level Information | | | | |
|---------------------------|-------------------------|--------------------------|--------------------------|--|
| STATIC WATER LEVEL 117 | Feet Below Land Surface | DATE MEASURED 3-27-13 | TIME MEASURED 3:00 pm | IF FLOWING WELL, METHOD OF FLOW REGULATION <input type="checkbox"/> Valve <input type="checkbox"/> Other: |

| Borehole | | | Installed Casing | | | | | | | | | | | | | | |
|--------------------|-----------|----------------------------|--------------------|-----------|-------------------------|---------------------|-----|-----|-------------------------|------------------------|-----------|----------------|-------------|---------|---------------------------|-------------------------|--------|
| DEPTH FROM SURFACE | | BOREHOLE DIAMETER (inches) | DEPTH FROM SURFACE | | OUTER DIAMETER (inches) | MATERIAL TYPE (T) | | | | PERFORATION TYPE (T) | | | | | SLOT SIZE IF ANY (inches) | | |
| FROM (feet) | TO (feet) | | FROM (feet) | TO (feet) | | STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | | IF OTHER TYPE, DESCRIBE | |
| 0 | 20' | 12 1/4" | +1' | 20' | 8 5/8 | ✓ | | | | | | | | | | | |
| 20 | 400' | 8" | +1' | 300' | 6 5/8 | ✓ | | | | | | | | | | | |
| | | | 300' | 400' | 6 5/8 | ✓ | | | | | | | | | | | 1/8x3" |

| DEPTH FROM SURFACE | | Installed Annular Material | | | | | | | | | | | |
|--------------------|-----------|----------------------------|----------|-----------------------------|------------------------|-----------|-------|---------|---|-------------|--------|------|--|
| FROM (feet) | TO (feet) | NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE | | | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | FILTER PACK | | | |
| | | | | | | GROUT | CHIPS | PELLETS | | SAND | GRAVEL | SIZE | |
| 0 | 20' | | | ✓ | | | | | | | | | |

SECTION 5. GEOLOGIC LOG OF WELL

| DEPTH FROM SURFACE | | Description Describe material, grain size, color, etc. | Check (T) every interval where water was encountered (if known) |
|--------------------|-----------|---|---|
| FROM (feet) | TO (feet) | | |
| 0 | 15' | Boulders, SAND, CLAY | |
| 15' | 30' | Decomposed GRANITE | |
| 30' | 130' | GREY GRANITE | |
| 130 | 150' | FRACTURED GRANITE | ✓ |
| 150' | 240' | GREY GRANITE | |
| 240' | 300' | FRACTURED GREY GRANITE | ✓✓ |
| 300' | 400' | GREY & PINK GRANITES | ✓ |
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Attachment 2 – Field Notes

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-20 / 55-232968 | | | | |
| Date Completed | | 9/24/2020 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 25-90 | | | | |
| Well Total Depth (ft btoc) | | 95 | | | | |
| Survey Information | | Northing: 909022.530 / Easting: 761681.990 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/16/2022 @ 1144 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 30.21 | | | | |
| Deployment Depth (ft btoc) | | 73 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/13/22 @ 0854 | | | | |
| DTW (ft btoc) | | 31.21 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | effluent line H2O | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/13/22 @ 0854 | 20.3 | 6.58 | 23.2 | 4690 | 2.56 | 15.1 |
| Sample ID | | TTU-20-73- 20210923 | | | | |
| QAQC Samples | | Dup-01 | | | | |
| Containers | | (2) 125 mL HDPE (no pres.) & (2) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | No | |
| Notes | | Sampler <u>not</u> reset; teflon ^{BCB} removed for later PFAS testing | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-19 / 55-232969 | | | | |
| Date Completed | | 9/24/2020 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 25-90 | | | | |
| Well Total Depth (ft btoc) | | 95 | | | | |
| Survey Information | | Northing: 909030.750 / Easting: 761687.700 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/20/2022 @ 1256 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 26.61 | | | | |
| Deployment Depth (ft btoc) | | 73 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Gross smell, gel in water, effervescing a lot | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/3/22 @ 1031 | | | | |
| DTW (ft btoc) | | 29.49 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF, BCB | | | | |
| Notes | | Smelly, oily water w/ floating sediment | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/3/22 @ 1048 | 27.3 | 6.09 | -132.7 | 1533 | 2.62 | 150 |
| Sample ID | | TTU-19-73-20220903 | | | | |
| QAQC Samples | | HS/MSD | | | | |
| Containers | | (2) 125 mL HDPE (no pres.) & (2) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | Pulled tether for PFAS sampling | | | | |

| Well Sampling Record | | | | | | |
|----------------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-11 / 55-918534 | | | | |
| Date Completed | | 9/11/2015 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 24-89 | | | | |
| Well Total Depth (ft btoc) | | 94 | | | | |
| Survey Information | | Northing: 909029.758 / Easting: 761706.470 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/20/2022 @ 1407 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 31.92 | | | | |
| Deployment Depth (ft btoc) | | 73 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Effervescing quite a bit, smells terrible | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/13/22 @ 0930 | | | | |
| DTW (ft btoc) | | 31.49 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | awful smell, floating chunks of something unknown | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/13/22 @ 0940 | 31.4 | 5.47 | -185.0 | 1618 | 1.75 | 102.9 |
| Sample ID | | TTU-11-73-20220903 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | No | |
| Notes Tether removed for PFAS | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|--|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-EXT-5 / 55-231736 | | | | |
| Date Completed | | 1/24/2020 | | | | |
| Casing Material | | | | | | |
| Casing Diameter (in) | | 8 | | | | |
| Screen (ft btoc) | | OPEN | | | | |
| Well Total Depth (ft btoc) | | 112.4 | | | | |
| Survey Information | | Northing: 908971.770 / Easting: 761423.325 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 0750 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 40.58 | | | | |
| Deployment Depth (ft btoc) | | 80 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | 1.5" Sediment @ bottom of sleeve, 3/4 of water clear | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 0719 | | | | |
| DTW (ft btoc) | | 40.92 | | | | |
| Sampler Integrity | | good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | ~1" sed @ bottom of sampler, H2O cloudy | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 0719 | 27.1 | 7.09 | 6.2 | 1104 | 2.12 | 24.0 |
| Sample ID | | TTU-EXT-5-80-70720908 | | | | |
| QAQC Samples | | DUP-02 | | | | |
| Containers | | (2) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | Sampler & tether removed for later PFAS sampling | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|--|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-EXT-4 / 55-231732 | | | | |
| Date Completed | | 1/25/2020 | | | | |
| Casing Material | | | | | | |
| Casing Diameter (in) | | 8 | | | | |
| Screen (ft btoc) | | OPEN | | | | |
| Well Total Depth (ft btoc) | | 112 | | | | |
| Survey Information | | Northing: 909051.298 / Easting: 761442.876 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 0834 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 41.62 | | | | |
| Deployment Depth (ft btoc) | | 77 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | 1.5" Sediment @ bottom of sleeve, ¾ of water clear | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 0754 | | | | |
| DTW (ft btoc) | | 41.95 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | Small amount of sediment, silty toward bottom | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ Ø8Ø2 | 27.3 | 6.87 | 42.1 | 2128 | 1.59 | 32.2 |
| Sample ID | | TTU-EXT-4-77-20220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | No | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|--|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-EXT-3 / 55-231731 | | | | |
| Date Completed | | 1/24/2020 | | | | |
| Casing Material | | | | | | |
| Casing Diameter (in) | | 8 | | | | |
| Screen (ft btoc) | | OPEN | | | | |
| Well Total Depth (ft btoc) | | 111 | | | | |
| Survey Information | | Northing: 909134.941 / Easting: 761465.507 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 0907 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 36.50 | | | | |
| Deployment Depth (ft btoc) | | 76 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | About 1" of sediment @ the bottom of sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 0819 | | | | |
| DTW (ft btoc) | | 36.09 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | 1" rocks + sediment @ bottom of HS | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 0830 | 26.8 | 6.57 | 68.8 | 5321 *this is what it read, no error | 2.24 | 13.5 |
| Sample ID | | TTU-EXT-3-76-20220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | ((1) 125 mL HDPE (no pres.) & ((6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-EXT-2 / 55-231734 | | | | |
| Date Completed | | 1/28/2020 | | | | |
| Casing Material | | | | | | |
| Casing Diameter (in) | | 8 | | | | |
| Screen (ft btoc) | | OPEN | | | | |
| Well Total Depth (ft btoc) | | 110 | | | | |
| Survey Information | | Northing: 909268.187 / Easting: 761493.214 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 0931 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 33.69 | | | | |
| Deployment Depth (ft btoc) | | 74 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water 3/4 clear, 5" sediment @ the bottom of sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 0846 | | | | |
| DTW (ft btoc) | | 23.66 | | | | |
| Sampler Integrity | | GOOD | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | < 1" sediment @ bottom, very silty | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 0855 | 26.7 | 7.77 | 29.2 | 1316 | 3.28 | 86.5 |
| Sample ID | | TTU-EXT-2-74-20720908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | No | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|--|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-EXT-1 / 55-231733 | | | | |
| Date Completed | | 1/29/2020 | | | | |
| Casing Material | | | | | | |
| Casing Diameter (in) | | 8 | | | | |
| Screen (ft btoc) | | OPEN | | | | |
| Well Total Depth (ft btoc) | | 109 | | | | |
| Survey Information | | Northing: 909350.574 / Easting: 761597.823 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 1000 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 44.58 | | | | |
| Deployment Depth (ft btoc) | | 69 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water clear; 5" sediment @ bottom of sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 0910 | | | | |
| DTW (ft btoc) | | 16.32 | | | | |
| Sampler Integrity | | good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | bottom 78 BCB 1/3rd of sampler rusty colored, H ₂ O cloudy | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 0919 | 26.4 | 7.13 | 33.7 | 2311 | 3.94 | 116 |
| Sample ID | | TTU-EXT-1-69-20220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-17 / 55-23173 | | | | |
| Date Completed | | 1/22/2020 | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | 8 | | | | |
| Screen (ft btoc) | | OPEN | | | | |
| Well Total Depth (ft btoc) | | 102 | | | | |
| Survey Information | | Northing: 909370.903 / Easting: 762179.168 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 1027 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 36.40 | | | | |
| Deployment Depth (ft btoc) | | 80 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Black sediment in sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 0947 | | | | |
| DTW (ft btoc) | | 37.89 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | Light rotten smell, black sediment in sleeve | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 0956 | 26.7 | 7.11 | -150.8 | 1076 | 1.62 | 36.0 |
| Sample ID | | TTU-17-80-76220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-15 / 55-228014 | | | | |
| Date Completed | | 1/25/2018 | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | N/A | | | | |
| Screen (ft btoc) | | Open | | | | |
| Well Total Depth (ft btoc) | | 100 | | | | |
| Survey Information | | Northing: 909185.100 / Easting: 762065.910 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 1103 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 28.72 | | | | |
| Deployment Depth (ft btoc) | | 75 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | 0.5" Red/brown sediment @ bottom of sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 1019 | | | | |
| DTW (ft btoc) | | 30.79 | | | | |
| Sampler Integrity | | GOOD | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | Clear w/ copper particles | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 1019 | 26.4 | 7.15 | -27.3 | 247 | 1.95 | 6.38 |
| Sample ID | | TTU-15-75-20210908 | | | | |
| QAQC Samples | | MS/MSD | | | | |
| Containers | | (2) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | No | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|---------------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-16 / 55-231730 | | | | |
| Date Completed | | 1/23/2020 | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | 8 | | | | |
| Screen (ft btoc) | | OPEN | | | | |
| Well Total Depth (ft btoc) | | 96.6 | | | | |
| Survey Information | | Northing: 909124.980 / Easting: 76.1848.851 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 1127 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 20.21 | | | | |
| Deployment Depth (ft btoc) | | 80 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water copper colored & silty | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/18/22 @ 1108 | | | | |
| DTW (ft btoc) | | 19.13 | | | | |
| Sampler Integrity | | good | | | | |
| Personnel | | BCB, IGF | | | | |
| Notes | | H ₂ O is copper colored | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/18/22 @ 1117 | 28.4 | 6.29 | 81.4 | 9991 *NOT a typo | 1.66 | 1046 |
| Sample ID | | TTU-16-80- 20220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-9A / NA | | | | |
| Date Completed | | 6/16/2016 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 24-99 | | | | |
| Well Total Depth (ft btoc) | | 104 | | | | |
| Survey Information | | Northing: 909974.490 / Easting: 761710.151 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 0839 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 29.00 | | | | |
| Deployment Depth (ft btoc) | | 61 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water clear | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 1145 | | | | |
| DTW (ft btoc) | | 28.34 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | Water clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 1153 | 28.3 | 7.60 | 78.9 | 1607 | 4.08 | 5.10 |
| Sample ID | | TTU-9A-61-20220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|--|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-5 / NA | | | | |
| Date Completed | | 9/20/2014 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 59.5-164.5 | | | | |
| Well Total Depth (ft btoc) | | 169.5 | | | | |
| Survey Information | | Northing: 908747.636 / Easting: 761102.227 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 1204 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 78.19 | | | | |
| Deployment Depth (ft btoc) | | 110 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water clear; 0.5" sediment @ bottom of sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ 1246 | | | | |
| DTW (ft btoc) | | 80.84 | | | | |
| Sampler Integrity | | good | | | | |
| Personnel | | BCB, IGF | | | | |
| Notes | | H2O clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 1253 | 27.4 | 7.35 | 78.2 | 711 | 2.93 | 1.66 |
| Sample ID | | TTU-5-110- 20220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes did not remove transducer from well | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-13 / NA | | | | |
| Date Completed | | 7/20/2018 | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | 5 | | | | |
| Screen (ft btoc) | | Open to 80 | | | | |
| Well Total Depth (ft btoc) | | 80 | | | | |
| Survey Information | | Northing: 909405.920 / Easting: 761232.180 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 1306 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 44.22 | | | | |
| Deployment Depth (ft btoc) | | 51 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water clear | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/8/22 @ | | | | |
| DTW (ft btoc) | | 34.81 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | H2O clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/8/22 @ 1216 | 25.7 | 6.99 | 80.0 | 1192 | 3.12 | 3.27 |
| Sample ID | | TTU-13-51-20220908 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-14 / NA | | | | |
| Date Completed | | 7/19/2018 | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | 5 | | | | |
| Screen (ft btoc) | | Open to 100 | | | | |
| Well Total Depth (ft btoc) | | 100 | | | | |
| Survey Information | | Northing: 909224.260 / Easting: 761848.230 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/14/2022 @ 0642 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS 2 IL | | | | |
| DTW (ft btoc) | | 61.61 | | | | |
| Deployment Depth (ft btoc) | | 64 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | 0.5" Sediment @ bottom of sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 0745 | | | | |
| DTW (ft btoc) | | 58.74 | | | | |
| Sampler Integrity | | good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | H2O clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/9/22 @ 0755 | 26.7 | 6.78 | 130.3 | 3000 | 3.06 | 9.77 |
| Sample ID | | TTU-14-64-20220909 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-12 / NA | | | | |
| Date Completed | | 7/31/2018 | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | 5 | | | | |
| Screen (ft btoc) | | Open to 180 | | | | |
| Well Total Depth (ft btoc) | | 180 | | | | |
| Survey Information | | Northing: 909105.990 / Easting: 761103.280 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/13/2022 @ 1235 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 75.14 | | | | |
| Deployment Depth (ft btoc) | | 82 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water clear; 0.5" sediment @ bottom of sleeve | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 0810 | | | | |
| DTW (ft btoc) | | 73.27 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | H ₂ O clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/9/22 @ 0818 | 25.0 | 6.71 | 97.5 | 3366 | 4.06 | 4.78 |
| Sample ID | | TTU-12-82-20220909 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-8 / NA | | | | |
| Date Completed | | 4/18/2016 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 135-185 | | | | |
| Well Total Depth (ft btoc) | | 190 | | | | |
| Survey Information | | Northing: 909699.266 / Easting: 760514.908 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/14/2022 @ 1047 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 150.47 | | | | |
| Deployment Depth (ft btoc) | | 164 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | None | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 1000 | | | | |
| DTW (ft btoc) | | 151.60 | | | | |
| Sampler Integrity | | good | | | | |
| Personnel | | BCB, IGF | | | | |
| Notes | | - | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/9/22 @ 1010 | 26.4 | 7.00 | -42.3 | 3220 | 2.14 | 12.3 |
| Sample ID | | TTU-8-164-20220909 | | | | |
| QAQC Samples | | DUP-03 | | | | |
| Containers | | (2) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-7 / NA | | | | |
| Date Completed | | 10/8/2014 | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | 8.5 | | | | |
| Screen (ft btoc) | | 280-410 | | | | |
| Well Total Depth (ft btoc) | | 410 | | | | |
| Survey Information | | Northing: 909287.611 / Easting: 760527.269 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/14/2022 @ 1152 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 131.52 | | | | |
| Deployment Depth (ft btoc) | | 345 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Black sediment in sleeve & on rope | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 1100 | | | | |
| DTW (ft btoc) | | 133.87 | | | | |
| Sampler Integrity | | good | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | Black sediment @ bottom, 1" | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/9/22 @ 1110 | 26.0 | 7.10 | -83.4 | 3919 | 1.79 | 12.1 |
| Sample ID | | TTU-7-345-20220909 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-4 / NA | | | | |
| Date Completed | | 10/25/2013 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 39.5-99.5 | | | | |
| Well Total Depth (ft btoc) | | 104.9 | | | | |
| Survey Information | | Northing: 909673.680 / Easting: 761041.975 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/14/2022 @ 1016 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 52.90 | | | | |
| Deployment Depth (ft btoc) | | 57 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Sleeve only 1/2 way full, water clear | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 1032 | | | | |
| DTW (ft btoc) | | 53.05 | | | | |
| Sampler Integrity | | GOOD | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | H ₂ O clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/9/22 @ 1040 | 26.2 | 7.49 | 12.5 | 2222 | 2.24 | 2.29 |
| Sample ID | | TTU-4-57-20220908IF9 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | No | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-3 / NA | | | | |
| Date Completed | | 10/18/2013 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 78.1-138.1 | | | | |
| Well Total Depth (ft btoc) | | 143.6 | | | | |
| Survey Information | | Northing: 909303.363 / Easting: 760888.204 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/14/2022 @ 1124 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 91.13 | | | | |
| Deployment Depth (ft btoc) | | 108 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water clear | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 1158 | | | | |
| DTW (ft btoc) | | 90.65 | | | | |
| Sampler Integrity | | Good | | | | |
| Personnel | | BCB, IGF | | | | |
| Notes | | H2O very clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/9/22 @ 1207 | 25.6 | 6.98 | 28.8 | 1434 | 4.42 | 4.21 |
| Sample ID | | TTU-3-108-20220909 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-6 / NA | | | | |
| Date Completed | | 10/7/2014 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 110-175 | | | | |
| Well Total Depth (ft btoc) | | 180 | | | | |
| Survey Information | | Northing: 909260.820 / Easting: 760560.096 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/14/2022 @ 1216 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 131.30 | | | | |
| Deployment Depth (ft btoc) | | 143 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Water clear | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 1135 | | | | |
| DTW (ft btoc) | | 128.69 | | | | |
| Sampler Integrity | | GOOD | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | H ₂ O clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 9/9/22 @ 1143 | 26.8 | 7.13 | -4.8 | 1925 | 2.70 | 3.96 |
| Sample ID | | TTU-6-143-20220909 | | | | |
| QAQC Samples | | MS/MSD | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (2) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |

| Well Sampling Record | | | | | | |
|---|-----------------|---|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-10 / NA | | | | |
| Date Completed | | 4/18/2016 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 115-180 | | | | |
| Well Total Depth (ft btoc) | | 185 | | | | |
| Survey Information | | Northing: 908960.114 / Easting: 760297.013 | | | | |
| Deployment | | | | | | |
| Date / Time | | 6/14/2022 @ 1306 | | | | |
| Type of Sampler | | HydraSleeve | | | | |
| Size of Sampler | | HS-2-1L | | | | |
| DTW (ft btoc) | | 157.18 | | | | |
| Deployment Depth (ft btoc) | | 153 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | None | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 4/18/22 IF 9/9/22 @ 1246 | | | | |
| DTW (ft btoc) | | 162.49 | | | | |
| Sampler Integrity | | GOOD | | | | |
| Personnel | | IGF + BCB | | | | |
| Notes | | H ₂ O clear | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 4/18/22 IF @ | 26.3 | 7.30 | 28.2 | 1472 | 3.78 | 4.67 |
| 9/9/22 @ 1254 | | | | | | |
| Sample ID | | TTU-10-153-20220909 IF TTU-10-165-20220909 | | | | |
| QAQC Samples | | - | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (1) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |
| <p>Set @ 1426, 9/8/22 (H₂O level too low, nothing in sampler)</p> <p>↳ set at 161 ft</p> <p>*9/9/22, sampler empty, re-set to 165' + took sample directly after setting very gently.</p> | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|--|----------|-----------------|-----------|-----------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | PF-2 | | | | |
| Date Completed | | N/A | | | | |
| Casing Material | | Steel | | | | |
| Casing Diameter (in) | | 6 5/8 | | | | |
| Screen (ft btoc) | | 300-400 | | | | |
| Well Total Depth (ft btoc) | | 400 | | | | |
| Survey Information | | Northing: 909166.890 / Easting: 760122.250 | | | | |
| Deployment | | | | | | |
| Date / Time | | NA | | | | |
| Type of Sampler | | Production Well; spigot | | | | |
| Size of Sampler | | NA | | | | |
| DTW (ft btoc) | | NA | | | | |
| Deployment Depth (ft btoc) | | 400 | | | | |
| Personnel | | NA | | | | |
| Notes | | Purge 15 minutes. Take parameters (starting and 15 min. after) | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 9/9/22 @ 1330 (Pace samples), 1342 (Eurofins) | | | | |
| DTW (ft btoc) | | N/A | | | | |
| Sampler Integrity | | - | | | | |
| Personnel | | BBS, IGF | | | | |
| Notes | | - | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 1304 → 9/9/22 | 25.3 | 7.24 | 24.4 | 1237 | 3.27 | 5.35 |
| 1309 BBS | 25.1 | 7.26 | 24.1 | 1251 | 3.46 | 14.2 |
| 1314 | 25.5 | 7.23 | 25.9 | 1257 | 3.52 | 1.87 |
| 1319 | 26.0 | 7.23 | 33.7 | 1261 | 2.97 | 1.11 |
| Sample ID | | PF-2-400-70710909 | | | | |
| QAQC Samples | | - 250 | | | | |
| Containers | | (1) 125 mL HDPE (no pres.) & (6) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate (Method 6850, filtered) / VOCs / 1,4-Dioxane Pace Samples | | | | |
| Sampler Reset | | Yes | | | No | |
| Notes | | | | | | |
| Well on @ 1301; off @ 1415 | | | | | | |

each sample calibrated to 1.00 before testing

| Well Sampling Record | | | | | | |
|--|-----------------|--|----------|-----------------|-----------|---|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-2 / NA | | | | |
| Date Completed | | 10/17/2013 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 49.4-179.6 | | | | |
| Well Total Depth (ft btoc) | | 185 | | | | |
| Survey Information | | Northing: 909087.852 / Easting: 761148.265 | | | | |
| Deployment | | | | | | |
| Date / Time | | NA | | | | |
| Type of Sampler | | Production Well; spigot | | | | |
| Size of Sampler | | NA | | | | |
| DTW (ft btoc) | | NR | | | | |
| Deployment Depth (ft btoc) | | 114.5 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Unable to collect DTW, collect before turning on. | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 10/10/22 @ 1543 | | | | |
| DTW (ft btoc) | | Meter got stuck twice (in the well) around 27' down, unable to collect | | | | |
| Sampler Integrity | | NA | | | | |
| Personnel | | IGF | | | | |
| Notes | | | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 10/10/22 @ 1556 IGF | 24.8 | 6.83 | 33.7 | 3388 | 5.66 | 0.32 |
| | | | | | | *Calibrated to 1.00 (3) times to make sure accuracy |
| Sample ID | | TTU-2-114-20221010 | | | | |
| QAQC Samples | | MS/MSD | | | | |
| Containers | | (2) 125 mL HDPE (no pres.) & (2) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | | | | | |
| **Make sure well has been off for 1 week. When sampling, turn on and let run for 1 hour before sampling. Turn off after. | | | | | | |
| Pump on @ 1613, pump on (Emailed Mark about sampling) being complete + well being on IGF 5 | | | | | | |

| Well Sampling Record | | | | | | |
|----------------------------|-----------------|--|----------|-----------------|-----------|---------------------------|
| Project Name | | Nammo TTU | | | | |
| Project Number | | 722152201.002 | | | | |
| Well ID / ADWR # | | TTU-1 / 55-914440 | | | | |
| Date Completed | | 6/6/2012 | | | | |
| Casing Material | | PVC | | | | |
| Casing Diameter (in) | | 4 | | | | |
| Screen (ft btoc) | | 30-70 | | | | |
| Well Total Depth (ft btoc) | | 75 | | | | |
| Survey Information | | Northing: 909420.734 / Easting: 761281.203 | | | | |
| Deployment | | | | | | |
| Date / Time | | NA | | | | |
| Type of Sampler | | Production Well; spigot | | | | |
| Size of Sampler | | NA | | | | |
| DTW (ft btoc) | | NR | | | | |
| Deployment Depth (ft btoc) | | 50 | | | | |
| Personnel | | BCB & IGF | | | | |
| Notes | | Unable to collect DTW, collect before turning on. | | | | |
| Retrieval and/or Sampling | | | | | | |
| Date / Time | | 10/10/22 @ 10/11/22 @ 1646 | | | | |
| DTW (ft btoc) | | 37.03 | | | | |
| Sampler Integrity | | NA | | | | |
| Personnel | | L. Foster | | | | |
| Notes | | | | | | |
| Field Parameters | | | | | | |
| Date / Time | Water Temp (°C) | pH (SU) | ORP (mV) | Sp Cond (µS/cm) | DO (mg/L) | Turbidity |
| 10/11/22 1700 | 27.2 | 7.47 | 61.0 | 1044 | 4.50 | 0.31 |
| | | | | | | *calibrated to 1.00 twice |
| Sample ID | | TTU-1-50-20221011 | | | | |
| QAQC Samples | | Dup-01 | | | | |
| Containers | | (2) 125 mL HDPE (no pres.) & (2) 40 mL amber VOAs | | | | |
| Preservatives | | HCl | | | | |
| Analysis | | Perchlorate / VOCs / 1,4-Dioxane | | | | |
| Sampler Reset | | Yes | | | (No) | |
| Notes | | <p>Make sure well has been off for 1 week. When sampling, turn on and let run for 1 hour before sampling. Turn off after.</p> <p>Not off for a week before sampling</p> <p>Well on both days (10/10 + 10/11) upon arrival - see field notes * for more details *</p> | | | | |

Attachment 3 – Laboratory Analytical Reports

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Pinyon Environmental

Sample Delivery Group: L1533315
Samples Received: 09/07/2022
Project Number: 722152201.002
Description: Nammo TTU Groundwater Monitoring

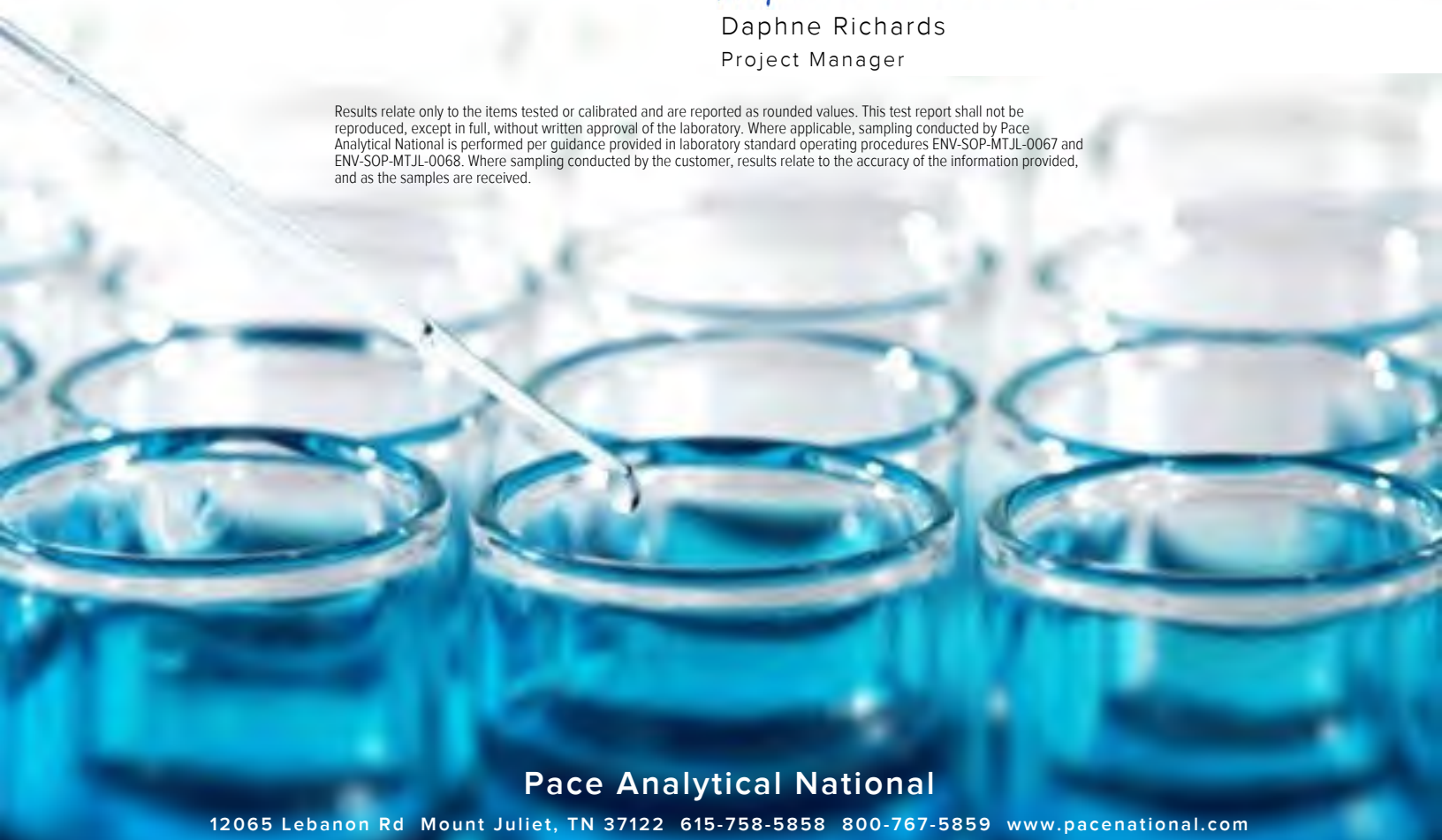
Report To: Jeremy Musson
4815 E. Carefree Highway
#108-274
Cave Creek, AZ 85331

Entire Report Reviewed By:



Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

TTU-11-73-20220903 L1533315-01 GW

Collected by Isabella Foster Collected date/time 09/03/22 09:30 Received date/time 09/07/22 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1928871 | 1 | 09/10/22 03:42 | 09/10/22 03:42 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1924204 | 10 | 09/11/22 00:01 | 09/11/22 00:01 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1927005 | 10 | 09/16/22 00:46 | 09/16/22 00:46 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926249 | 1 | 09/14/22 18:47 | 09/14/22 18:47 | JHH | Mt. Juliet, TN |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

TTU-19-73-20220903 L1533315-02 GW

Collected by Isabella Foster Collected date/time 09/03/22 10:31 Received date/time 09/07/22 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1924008 | 20 | 09/10/22 04:06 | 09/10/22 04:06 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1924204 | 5 | 09/11/22 00:22 | 09/11/22 00:22 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1927005 | 5 | 09/16/22 01:08 | 09/16/22 01:08 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1928820 | 10 | 09/20/22 14:12 | 09/20/22 14:12 | ADM | Mt. Juliet, TN |

TTU-20-73-20220903 L1533315-03 GW

Collected by Isabella Foster Collected date/time 09/03/22 08:44 Received date/time 09/07/22 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1924008 | 10000 | 09/10/22 06:06 | 09/10/22 06:06 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1926870 | 100 | 09/16/22 01:20 | 09/16/22 01:20 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1928820 | 10 | 09/20/22 14:32 | 09/20/22 14:32 | ADM | Mt. Juliet, TN |

DUP-01 L1533315-04 GW

Collected by Isabella Foster Collected date/time 09/03/22 08:44 Received date/time 09/07/22 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1924008 | 10000 | 09/10/22 06:30 | 09/10/22 06:30 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1924204 | 1 | 09/10/22 23:41 | 09/10/22 23:41 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1927005 | 200 | 09/16/22 01:29 | 09/16/22 01:29 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1928820 | 10 | 09/20/22 14:52 | 09/20/22 14:52 | ADM | Mt. Juliet, TN |

TRIP BLANK 2 L1533315-05 GW

Collected by Isabella Foster Collected date/time 09/03/22 00:00 Received date/time 09/07/22 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1924204 | 1 | 09/10/22 19:08 | 09/10/22 19:08 | ACG | Mt. Juliet, TN |

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

| <u>Lab Sample ID</u> | <u>Project Sample ID</u> | <u>Method</u> |
|-----------------------------|------------------------------------|---------------|
| L1533315-01 | TTU-11-73-20220903 | 8260B |
| L1533315-02 | TTU-19-73-20220903 | 8260B |

No extra volume received to perform Matrix Spike samples.

| <u>Lab Sample ID</u> | <u>Project Sample ID</u> | <u>Method</u> |
|-----------------------------|------------------------------------|------------------|
| L1533315-01 | TTU-11-73-20220903 | 8260B, 8260B-SIM |
| L1533315-02 | TTU-19-73-20220903 | 8260B |
| L1533315-04 | DUP-01 | 8260B |



Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | U | <u>J6</u> | 0.300 | 4.00 | 1 | 09/10/2022 03:42 | WG1928871 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-------------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 358 | <u>J J3</u> | 113 | 500 | 10 | 09/11/2022 00:01 | WG1924204 |
| Acrolein | U | | 25.4 | 500 | 10 | 09/11/2022 00:01 | WG1924204 |
| Acrylonitrile | U | | 6.71 | 100 | 10 | 09/11/2022 00:01 | WG1924204 |
| Benzene | 1.26 | <u>J</u> | 0.941 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Bromobenzene | U | <u>J3</u> | 1.18 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Bromodichloromethane | U | | 1.36 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Bromoform | U | | 1.29 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Bromomethane | U | | 6.05 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,3-Butadiene | U | <u>J3</u> | 2.99 | 20.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| n-Butylbenzene | U | | 1.57 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| sec-Butylbenzene | U | | 1.25 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| tert-Butylbenzene | U | | 1.27 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Carbon tetrachloride | U | | 1.28 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Carbon disulfide | U | | 0.962 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Chlorobenzene | U | | 1.16 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Chlorodibromomethane | U | | 1.40 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Chloroethane | U | <u>J3</u> | 1.92 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Chloroform | U | | 1.11 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Chloromethane | U | | 9.60 | 25.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Cyclohexane | U | | 1.88 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 2-Chlorotoluene | U | | 1.06 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 4-Chlorotoluene | U | | 1.14 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2-Dibromo-3-Chloropropane | U | | 2.76 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2-Dibromoethane | U | | 1.26 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Dibromomethane | U | | 1.22 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2-Dichlorobenzene | U | | 1.07 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,3-Dichlorobenzene | U | | 1.10 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,4-Dichlorobenzene | U | | 1.20 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Dichlorodifluoromethane | U | | 3.74 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1-Dichloroethane | U | | 1.00 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2-Dichloroethane | U | | 0.819 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1-Dichloroethene | 4.93 | <u>J</u> | 1.88 | 10.0 | 10 | 09/16/2022 00:46 | WG1927005 |
| cis-1,2-Dichloroethene | 11.8 | | 1.26 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| trans-1,2-Dichloroethene | U | | 1.49 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2-Dichloropropane | U | | 1.49 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1-Dichloropropene | U | | 1.42 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,3-Dichloropropane | U | | 1.10 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| cis-1,3-Dichloropropene | U | | 1.11 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| trans-1,3-Dichloropropene | U | | 1.18 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 2,2-Dichloropropane | U | | 1.61 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Dicyclopentadiene | U | | 2.53 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Di-isopropyl ether | U | | 1.05 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Ethylbenzene | U | | 1.37 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 4-Ethyltoluene | U | | 2.08 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Hexachloro-1,3-butadiene | U | <u>J3</u> | 3.37 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| n-Hexane | U | | 7.49 | 100 | 10 | 09/11/2022 00:01 | WG1924204 |
| Isopropylbenzene | U | | 1.05 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| p-Isopropyltoluene | U | | 1.20 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 2-Butanone (MEK) | 216 | | 11.9 | 100 | 10 | 09/11/2022 00:01 | WG1924204 |
| Methyl Cyclohexane | U | | 6.60 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | 4.81 | <u>J</u> | 4.30 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 4-Methyl-2-pentanone (MIBK) | 62.7 | <u>J</u> | 4.78 | 100 | 10 | 09/11/2022 00:01 | WG1924204 |
| Methyl tert-butyl ether | U | | 1.01 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Naphthalene | U | <u>J3</u> | 10.0 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Propene | U | <u>J3 J4</u> | 9.36 | 25.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| n-Propylbenzene | U | | 0.993 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Styrene | U | | 1.18 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1,1,2-Tetrachloroethane | U | | 1.47 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1,2,2-Tetrachloroethane | U | | 1.33 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1,2-Trichlorotrifluoroethane | U | <u>J4</u> | 1.80 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Tetrachloroethene | U | | 3.00 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Toluene | U | | 2.78 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2,3-Trichlorobenzene | U | <u>J3</u> | 2.30 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2,4-Trichlorobenzene | U | <u>J3</u> | 4.81 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1,1-Trichloroethane | U | | 1.49 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,1,2-Trichloroethane | U | <u>J4</u> | 1.58 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Trichloroethene | 58.2 | | 1.90 | 10.0 | 10 | 09/16/2022 00:46 | WG1927005 |
| Trichlorofluoromethane | U | | 1.60 | 50.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2,3-Trichloropropane | U | | 2.37 | 25.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2,4-Trimethylbenzene | U | | 3.22 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,2,3-Trimethylbenzene | U | | 1.04 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| 1,3,5-Trimethylbenzene | U | | 1.04 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Vinyl chloride | U | | 2.34 | 10.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| Xylenes, Total | U | | 1.74 | 30.0 | 10 | 09/11/2022 00:01 | WG1924204 |
| (S) Toluene-d8 | 116 | | | 80.0-120 | | 09/11/2022 00:01 | WG1924204 |
| (S) Toluene-d8 | 111 | | | 80.0-120 | | 09/16/2022 00:46 | WG1927005 |
| (S) 4-Bromofluorobenzene | 89.9 | | | 77.0-126 | | 09/11/2022 00:01 | WG1924204 |
| (S) 4-Bromofluorobenzene | 105 | | | 77.0-126 | | 09/16/2022 00:46 | WG1927005 |
| (S) 1,2-Dichloroethane-d4 | 87.2 | | | 70.0-130 | | 09/11/2022 00:01 | WG1924204 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/16/2022 00:46 | WG1927005 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Sample Narrative:

L1533315-01 WG1924204: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | <u>J3</u> | 0.597 | 3.00 | 1 | 09/14/2022 18:47 | WG1926249 |
| (S) Toluene-d8 | 107 | | | 77.0-127 | | 09/14/2022 18:47 | WG1926249 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-------------------------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 67.6 | J J3 J5 | 6.00 | 80.0 | 20 | 09/10/2022 04:06 | WG1924008 |

Sample Narrative:

L1533315-02 WG1924008: Sample history: 20x dilution

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|----------------------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 170 | J J6 | 56.5 | 250 | 5 | 09/11/2022 00:22 | WG1924204 |
| Acrolein | U | | 12.7 | 250 | 5 | 09/11/2022 00:22 | WG1924204 |
| Acrylonitrile | U | | 3.36 | 50.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| Benzene | 3.68 | J | 0.471 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Bromobenzene | U | | 0.590 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Bromodichloromethane | U | | 0.680 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Bromoform | U | | 0.645 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Bromomethane | U | | 3.03 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,3-Butadiene | U | J5 | 1.49 | 10.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| n-Butylbenzene | U | | 0.785 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| sec-Butylbenzene | U | | 0.625 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| tert-Butylbenzene | U | | 0.635 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Carbon tetrachloride | U | | 0.640 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Carbon disulfide | U | | 0.481 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Chlorobenzene | U | | 0.580 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Chlorodibromomethane | U | | 0.700 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Chloroethane | U | | 0.960 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| Chloroform | U | | 0.555 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| Chloromethane | U | | 4.80 | 12.5 | 5 | 09/11/2022 00:22 | WG1924204 |
| Cyclohexane | U | | 0.940 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 2-Chlorotoluene | U | | 0.530 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 4-Chlorotoluene | U | | 0.570 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.38 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2-Dibromoethane | U | | 0.630 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Dibromomethane | U | | 0.610 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2-Dichlorobenzene | U | | 0.535 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,3-Dichlorobenzene | U | | 0.550 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,4-Dichlorobenzene | U | | 0.600 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Dichlorodifluoromethane | U | J5 | 1.87 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1-Dichloroethane | U | | 0.500 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2-Dichloroethane | U | | 0.409 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1-Dichloroethene | 40.2 | | 0.940 | 5.00 | 5 | 09/16/2022 01:08 | WG1927005 |
| cis-1,2-Dichloroethene | 61.6 | | 0.630 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| trans-1,2-Dichloroethene | 2.11 | J | 0.745 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2-Dichloropropane | U | | 0.745 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1-Dichloropropene | U | | 0.710 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,3-Dichloropropane | U | | 0.550 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| cis-1,3-Dichloropropene | U | | 0.555 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| trans-1,3-Dichloropropene | U | | 0.590 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 2,2-Dichloropropane | U | | 0.805 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Dicyclopentadiene | U | | 1.27 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Di-isopropyl ether | U | | 0.525 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Ethylbenzene | U | | 0.685 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 4-Ethyltoluene | U | | 1.04 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Hexachloro-1,3-butadiene | U | | 1.69 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| n-Hexane | U | | 3.74 | 50.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| Isopropylbenzene | U | | 0.525 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| p-Isopropyltoluene | U | | 0.600 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 2-Butanone (MEK) | 329 | | 5.95 | 50.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| Methyl Cyclohexane | U | | 3.30 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Methylene Chloride | 5.56 | <u>J</u> | 2.15 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| 4-Methyl-2-pentanone (MIBK) | 3.40 | <u>J</u> | 2.39 | 50.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| Methyl tert-butyl ether | U | | 0.505 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Naphthalene | U | | 5.00 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| Propene | U | <u>J4 J5</u> | 4.68 | 12.5 | 5 | 09/11/2022 00:22 | WG1924204 |
| n-Propylbenzene | U | | 0.497 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Styrene | U | | 0.590 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1,1,2-Tetrachloroethane | U | | 0.735 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1,2,2-Tetrachloroethane | U | | 0.665 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1,2-Trichlorotrifluoroethane | U | <u>J4 J5</u> | 0.900 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Tetrachloroethene | U | | 1.50 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Toluene | U | | 1.39 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2,3-Trichlorobenzene | U | | 1.15 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2,4-Trichlorobenzene | U | | 2.41 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1,1-Trichloroethane | U | | 0.745 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,1,2-Trichloroethane | U | <u>J4</u> | 0.790 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Trichloroethene | 293 | <u>V</u> | 0.950 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Trichlorofluoromethane | U | <u>J5</u> | 0.800 | 25.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2,3-Trichloropropane | U | | 1.19 | 12.5 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2,4-Trimethylbenzene | U | | 1.61 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,2,3-Trimethylbenzene | U | | 0.520 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| 1,3,5-Trimethylbenzene | U | | 0.520 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Vinyl chloride | 2.28 | <u>J J5</u> | 1.17 | 5.00 | 5 | 09/11/2022 00:22 | WG1924204 |
| Xylenes, Total | U | | 0.870 | 15.0 | 5 | 09/11/2022 00:22 | WG1924204 |
| (S) Toluene-d8 | 119 | | | 80.0-120 | | 09/11/2022 00:22 | WG1924204 |
| (S) Toluene-d8 | 110 | | | 80.0-120 | | 09/16/2022 01:08 | WG1927005 |
| (S) 4-Bromofluorobenzene | 92.7 | | | 77.0-126 | | 09/11/2022 00:22 | WG1924204 |
| (S) 4-Bromofluorobenzene | 109 | | | 77.0-126 | | 09/16/2022 01:08 | WG1927005 |
| (S) 1,2-Dichloroethane-d4 | 92.8 | | | 70.0-130 | | 09/11/2022 00:22 | WG1924204 |
| (S) 1,2-Dichloroethane-d4 | 105 | | | 70.0-130 | | 09/16/2022 01:08 | WG1927005 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Sample Narrative:

L1533315-02 WG1924204: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 152 | <u>Q</u> | 5.97 | 30.0 | 10 | 09/20/2022 14:12 | WG1928820 |
| (S) Toluene-d8 | 102 | | | 77.0-127 | | 09/20/2022 14:12 | WG1928820 |

Sample Narrative:

L1533315-02 WG1928820: Non-target compounds too high to run at a lower dilution.

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 528000 | | 3000 | 40000 | 10000 | 09/10/2022 06:06 | WG1924008 |

Sample Narrative:

L1533315-03 WG1924008: Sample history: 10000x dilution

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1130 | 5000 | 100 | 09/16/2022 01:20 | WG1926870 |
| Acrolein | U | | 254 | 5000 | 100 | 09/16/2022 01:20 | WG1926870 |
| Acrylonitrile | U | | 67.1 | 1000 | 100 | 09/16/2022 01:20 | WG1926870 |
| Benzene | 77.9 | J | 9.41 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Bromobenzene | U | | 11.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Bromodichloromethane | U | | 13.6 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Bromoform | U | | 12.9 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Bromomethane | U | | 60.5 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,3-Butadiene | U | | 29.9 | 200 | 100 | 09/16/2022 01:20 | WG1926870 |
| n-Butylbenzene | U | | 15.7 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| sec-Butylbenzene | U | | 12.5 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| tert-Butylbenzene | U | | 12.7 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Carbon tetrachloride | U | | 12.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Carbon disulfide | U | | 9.62 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Chlorobenzene | U | | 11.6 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Chlorodibromomethane | U | | 14.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Chloroethane | U | | 19.2 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| Chloroform | 17.2 | J | 11.1 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| Chloromethane | U | | 96.0 | 250 | 100 | 09/16/2022 01:20 | WG1926870 |
| Cyclohexane | U | | 18.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 2-Chlorotoluene | U | | 10.6 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 4-Chlorotoluene | U | | 11.4 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2-Dibromo-3-Chloropropane | U | | 27.6 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2-Dibromoethane | U | | 12.6 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Dibromomethane | U | | 12.2 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2-Dichlorobenzene | U | | 10.7 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,3-Dichlorobenzene | U | | 11.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,4-Dichlorobenzene | U | | 12.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Dichlorodifluoromethane | U | | 37.4 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1-Dichloroethane | 27.6 | J | 10.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2-Dichloroethane | U | | 8.19 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1-Dichloroethene | 2610 | J4 | 18.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| cis-1,2-Dichloroethene | 146 | | 12.6 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| trans-1,2-Dichloroethene | 18.9 | J J4 | 14.9 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2-Dichloropropane | U | | 14.9 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1-Dichloropropene | U | | 14.2 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,3-Dichloropropane | U | | 11.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| cis-1,3-Dichloropropene | U | | 11.1 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| trans-1,3-Dichloropropene | U | | 11.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 2,2-Dichloropropane | U | | 16.1 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Dicyclopentadiene | U | | 25.3 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Di-isopropyl ether | U | | 10.5 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Ethylbenzene | U | | 13.7 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 4-Ethyltoluene | 35.0 | J | 20.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Hexachloro-1,3-butadiene | U | | 33.7 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| n-Hexane | U | | 74.9 | 1000 | 100 | 09/16/2022 01:20 | WG1926870 |
| Isopropylbenzene | U | | 10.5 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| p-Isopropyltoluene | U | | 12.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 2-Butanone (MEK) | U | | 119 | 1000 | 100 | 09/16/2022 01:20 | WG1926870 |
| Methyl Cyclohexane | U | | 66.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Methylene Chloride | 116 | <u>U</u> | 43.0 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| 4-Methyl-2-pentanone (MIBK) | U | | 47.8 | 1000 | 100 | 09/16/2022 01:20 | WG1926870 |
| Methyl tert-butyl ether | U | | 10.1 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Naphthalene | 122 | <u>U</u> | 100 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| Propene | U | | 93.6 | 250 | 100 | 09/16/2022 01:20 | WG1926870 |
| n-Propylbenzene | U | | 9.93 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Styrene | U | | 11.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1,1,2-Tetrachloroethane | U | | 14.7 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1,2,2-Tetrachloroethane | U | | 13.3 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1,2-Trichlorotrifluoroethane | U | | 18.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Tetrachloroethene | U | | 30.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Toluene | U | | 27.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2,3-Trichlorobenzene | U | | 23.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2,4-Trichlorobenzene | U | | 48.1 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1,1-Trichloroethane | U | | 14.9 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,1,2-Trichloroethane | U | | 15.8 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Trichloroethene | 13200 | <u>J4</u> | 19.0 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Trichlorofluoromethane | U | | 16.0 | 500 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2,3-Trichloropropane | U | | 23.7 | 250 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2,4-Trimethylbenzene | 105 | | 32.2 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,2,3-Trimethylbenzene | 42.0 | <u>U</u> | 10.4 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| 1,3,5-Trimethylbenzene | 27.7 | <u>U</u> | 10.4 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Vinyl chloride | U | | 23.4 | 100 | 100 | 09/16/2022 01:20 | WG1926870 |
| Xylenes, Total | 55.7 | <u>U</u> | 17.4 | 300 | 100 | 09/16/2022 01:20 | WG1926870 |
| (S) Toluene-d8 | 107 | | | 80.0-120 | | 09/16/2022 01:20 | WG1926870 |
| (S) 4-Bromofluorobenzene | 116 | | | 77.0-126 | | 09/16/2022 01:20 | WG1926870 |
| (S) 1,2-Dichloroethane-d4 | 95.1 | | | 70.0-130 | | 09/16/2022 01:20 | WG1926870 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 1140 | <u>Q</u> | 5.97 | 30.0 | 10 | 09/20/2022 14:32 | WG1928820 |
| (S) Toluene-d8 | 104 | | | 77.0-127 | | 09/20/2022 14:32 | WG1928820 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 537000 | | 3000 | 40000 | 10000 | 09/10/2022 06:30 | WG1924008 |

Sample Narrative:

L1533315-04 WG1924008: Sample history: 10000x dilution

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | J3 | 11.3 | 50.0 | 1 | 09/10/2022 23:41 | WG1924204 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/10/2022 23:41 | WG1924204 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/10/2022 23:41 | WG1924204 |
| Benzene | 77.7 | | 0.0941 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Bromobenzene | U | J3 | 0.118 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,3-Butadiene | U | J3 | 0.299 | 2.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Chloroethane | U | J3 | 0.192 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Chloroform | 19.8 | | 0.111 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/10/2022 23:41 | WG1924204 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2-Dichlorobenzene | 1.53 | | 0.107 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,3-Dichlorobenzene | 0.155 | J | 0.110 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,4-Dichlorobenzene | 0.454 | J | 0.120 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1-Dichloroethane | 28.8 | | 0.100 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2-Dichloroethane | 4.15 | | 0.0819 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1-Dichloroethene | 2230 | | 37.6 | 200 | 200 | 09/16/2022 01:29 | WG1927005 |
| cis-1,2-Dichloroethene | 141 | | 0.126 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| trans-1,2-Dichloroethene | 22.2 | | 0.149 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Di-isopropyl ether | 0.267 | J | 0.105 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Hexachloro-1,3-butadiene | U | J3 | 0.337 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/10/2022 23:41 | WG1924204 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/10/2022 23:41 | WG1924204 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Methylene Chloride | 112 | | 0.430 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/10/2022 23:41 | WG1924204 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Naphthalene | U | <u>J3</u> | 1.00 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Propene | U | <u>J3 J4</u> | 0.936 | 2.50 | 1 | 09/10/2022 23:41 | WG1924204 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1,2-Trichlorotrifluoroethane | U | <u>J4</u> | 0.180 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Tetrachloroethene | 27.9 | | 0.300 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Toluene | 1.42 | | 0.278 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2,3-Trichlorobenzene | U | <u>J3</u> | 0.230 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2,4-Trichlorobenzene | U | <u>J3</u> | 0.481 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,1,2-Trichloroethane | 20.9 | <u>J4</u> | 0.158 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Trichloroethene | 10700 | | 38.0 | 200 | 200 | 09/16/2022 01:29 | WG1927005 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Vinyl chloride | 1.87 | | 0.234 | 1.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| Xylenes, Total | 2.65 | <u>J</u> | 0.174 | 3.00 | 1 | 09/10/2022 23:41 | WG1924204 |
| (S) Toluene-d8 | 115 | | | 80.0-120 | | 09/10/2022 23:41 | WG1924204 |
| (S) Toluene-d8 | 111 | | | 80.0-120 | | 09/16/2022 01:29 | WG1927005 |
| (S) 4-Bromofluorobenzene | 92.3 | | | 77.0-126 | | 09/10/2022 23:41 | WG1924204 |
| (S) 4-Bromofluorobenzene | 102 | | | 77.0-126 | | 09/16/2022 01:29 | WG1927005 |
| (S) 1,2-Dichloroethane-d4 | 92.4 | | | 70.0-130 | | 09/10/2022 23:41 | WG1924204 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/16/2022 01:29 | WG1927005 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 1250 | <u>Q</u> | 5.97 | 30.0 | 10 | 09/20/2022 14:52 | WG1928820 |
| (S) Toluene-d8 | 104 | | | 77.0-127 | | 09/20/2022 14:52 | WG1928820 |

TRIP BLANK 2

SAMPLE RESULTS - 05

Collected date/time: 09/03/22 00:00

L1533315

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|-----------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | J3 | 11.3 | 50.0 | 1 | 09/10/2022 19:08 | WG1924204 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/10/2022 19:08 | WG1924204 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/10/2022 19:08 | WG1924204 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Bromobenzene | U | J3 | 0.118 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,3-Butadiene | U | J3 | 0.299 | 2.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Chloroethane | U | J3 | 0.192 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/10/2022 19:08 | WG1924204 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Hexachloro-1,3-butadiene | U | J3 | 0.337 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/10/2022 19:08 | WG1924204 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/10/2022 19:08 | WG1924204 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/10/2022 19:08 | WG1924204 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Naphthalene | U | J3 | 1.00 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Propene | U | J3 J4 | 0.936 | 2.50 | 1 | 09/10/2022 19:08 | WG1924204 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

TRIP BLANK 2

SAMPLE RESULTS - 05

Collected date/time: 09/03/22 00:00

L1533315

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Styrene | U | | 0.118 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1,2-Trichlorotrifluoroethane | U | J4 | 0.180 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.230 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.481 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,1,2-Trichloroethane | U | J4 | 0.158 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/10/2022 19:08 | WG1924204 |
| (S) Toluene-d8 | 115 | | | 80.0-120 | | 09/10/2022 19:08 | WG1924204 |
| (S) 4-Bromofluorobenzene | 90.8 | | | 77.0-126 | | 09/10/2022 19:08 | WG1924204 |
| (S) 1,2-Dichloroethane-d4 | 94.3 | | | 70.0-130 | | 09/10/2022 19:08 | WG1924204 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3837798-1 09/09/22 21:14

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|-------------|-----------|--------------|--------|--------|
| Perchlorate | U | | 0.300 | 4.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1533314-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1533314-02 09/10/22 00:31 • (DUP) R3837798-5 09/10/22 01:43

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|-------------|-----------------|------------|----------|---------|---------------|----------------|
| Perchlorate | U | U | 1 | 0.000 | | 15 |

⁷Is

⁸Gl

⁹Al

Laboratory Control Sample (LCS)

(LCS) R3837798-2 09/09/22 22:02

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|-------------|--------------|------------|----------|-------------|---------------|
| Perchlorate | 10.0 | 10.7 | 107 | 90.0-110 | |

¹⁰Sc

L1533314-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533314-01 09/09/22 23:20 • (MS) R3837798-3 09/09/22 23:43 • (MSD) R3837798-4 09/10/22 00:07

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|-------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Perchlorate | 50.0 | 147 | 202 | 182 | 110 | 69.9 | 5 | 80.0-120 | | J6 | 10.4 | 15 |

Sample Narrative:

OS: Sample history: 5x dilution

L1533315-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533315-02 09/10/22 04:06 • (MS) R3837798-10 09/10/22 04:30 • (MSD) R3837798-11 09/10/22 04:54

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|-------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Perchlorate | 200 | 67.6 | 456 | 389 | 194 | 161 | 20 | 80.0-120 | J5 | J3 J5 | 15.8 | 15 |

Sample Narrative:

OS: Sample history: 20x dilution

Method Blank (MB)

(MB) R3838899-2 09/09/22 22:29

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-------------|-------------------|--------------|----------------|----------------|
| Perchlorate | U | | 0.300 | 4.00 |

Laboratory Control Sample (LCS)

(LCS) R3838899-1 09/09/22 22:02

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|----------------------|--------------------|---------------|------------------|---------------|
| Perchlorate | 10.0 | 10.7 | 107 | 90.0-110 | |

L1533315-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1533315-01 09/10/22 03:42 • (MS) R3838899-3 09/10/22 07:17

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|-------------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Perchlorate | 10.0 | U | U | 0.000 | 1 | 80.0-120 | <u>J6</u> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3837604-3 09/10/22 17:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| 1,3-Butadiene | U | | 0.299 | 2.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Carbon disulfide | U | | 0.0962 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| Cyclohexane | U | | 0.188 | 1.00 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3837604-3 09/10/22 17:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Dicyclopentadiene | U | | 0.253 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |
| n-Hexane | U | | 0.749 | 10.0 |
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| Propene | U | | 0.936 | 2.50 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| (S) Toluene-d8 | 119 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 90.7 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 95.6 | | | 70.0-130 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837604-1 09/10/22 16:41 • (LCSD) R3837604-2 09/10/22 17:02

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone | 25.0 | 27.3 | 17.6 | 109 | 70.4 | 19.0-160 | | J3 | 43.2 | 27 |
| Acrolein | 25.0 | 13.1 | 16.7 | 52.4 | 66.8 | 30.0-160 | | | 24.2 | 26 |
| Acrylonitrile | 25.0 | 26.8 | 23.6 | 107 | 94.4 | 55.0-149 | | | 12.7 | 20 |
| Benzene | 5.00 | 5.45 | 5.73 | 109 | 115 | 70.0-123 | | | 5.01 | 20 |
| Bromobenzene | 5.00 | 4.65 | 5.71 | 93.0 | 114 | 73.0-121 | | J3 | 20.5 | 20 |
| Bromodichloromethane | 5.00 | 4.87 | 5.13 | 97.4 | 103 | 75.0-120 | | | 5.20 | 20 |
| Bromoform | 5.00 | 4.51 | 4.49 | 90.2 | 89.8 | 68.0-132 | | | 0.444 | 20 |
| Bromomethane | 5.00 | 5.61 | 6.54 | 112 | 131 | 30.0-160 | | | 15.3 | 25 |
| 1,3-Butadiene | 5.00 | 5.06 | 7.32 | 101 | 146 | 45.0-147 | | J3 | 36.5 | 20 |
| n-Butylbenzene | 5.00 | 4.99 | 4.33 | 99.8 | 86.6 | 73.0-125 | | | 14.2 | 20 |
| sec-Butylbenzene | 5.00 | 5.01 | 5.78 | 100 | 116 | 75.0-125 | | | 14.3 | 20 |
| tert-Butylbenzene | 5.00 | 4.73 | 5.60 | 94.6 | 112 | 76.0-124 | | | 16.8 | 20 |
| Carbon tetrachloride | 5.00 | 4.84 | 5.40 | 96.8 | 108 | 68.0-126 | | | 10.9 | 20 |
| Carbon disulfide | 5.00 | 4.91 | 5.96 | 98.2 | 119 | 61.0-128 | | | 19.3 | 20 |
| Chlorobenzene | 5.00 | 5.52 | 5.79 | 110 | 116 | 80.0-121 | | | 4.77 | 20 |
| Chlorodibromomethane | 5.00 | 4.53 | 4.99 | 90.6 | 99.8 | 77.0-125 | | | 9.66 | 20 |
| Chloroethane | 5.00 | 3.51 | 5.62 | 70.2 | 112 | 47.0-150 | | J3 | 46.2 | 20 |
| Chloroform | 5.00 | 5.55 | 5.47 | 111 | 109 | 73.0-120 | | | 1.45 | 20 |
| Chloromethane | 5.00 | 4.69 | 5.58 | 93.8 | 112 | 41.0-142 | | | 17.3 | 20 |
| Cyclohexane | 5.00 | 5.65 | 5.88 | 113 | 118 | 71.0-124 | | | 3.99 | 20 |
| 2-Chlorotoluene | 5.00 | 4.96 | 5.76 | 99.2 | 115 | 76.0-123 | | | 14.9 | 20 |
| 4-Chlorotoluene | 5.00 | 4.77 | 5.55 | 95.4 | 111 | 75.0-122 | | | 15.1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.36 | 4.15 | 87.2 | 83.0 | 58.0-134 | | | 4.94 | 20 |
| 1,2-Dibromoethane | 5.00 | 5.40 | 5.23 | 108 | 105 | 80.0-122 | | | 3.20 | 20 |
| Dibromomethane | 5.00 | 5.13 | 5.49 | 103 | 110 | 80.0-120 | | | 6.78 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 5.44 | 4.96 | 109 | 99.2 | 79.0-121 | | | 9.23 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 5.10 | 5.15 | 102 | 103 | 79.0-120 | | | 0.976 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 5.32 | 5.52 | 106 | 110 | 79.0-120 | | | 3.69 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.44 | 6.16 | 109 | 123 | 51.0-149 | | | 12.4 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.24 | 5.49 | 105 | 110 | 70.0-126 | | | 4.66 | 20 |
| 1,2-Dichloroethane | 5.00 | 4.91 | 5.08 | 98.2 | 102 | 70.0-128 | | | 3.40 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.60 | 5.89 | 112 | 118 | 71.0-124 | | | 5.05 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 5.47 | 5.66 | 109 | 113 | 73.0-120 | | | 3.41 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 5.46 | 5.87 | 109 | 117 | 73.0-120 | | | 7.24 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.11 | 5.32 | 102 | 106 | 77.0-125 | | | 4.03 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.29 | 5.62 | 106 | 112 | 74.0-126 | | | 6.05 | 20 |
| 1,3-Dichloropropane | 5.00 | 5.30 | 5.76 | 106 | 115 | 80.0-120 | | | 8.32 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.55 | 4.80 | 91.0 | 96.0 | 80.0-123 | | | 5.35 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.52 | 4.87 | 90.4 | 97.4 | 78.0-124 | | | 7.45 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.47 | 4.90 | 89.4 | 98.0 | 58.0-130 | | | 9.18 | 20 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837604-1 09/10/22 16:41 • (LCSD) R3837604-2 09/10/22 17:02

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | 5.01 | 5.40 | 100 | 108 | 74.0-126 | | | 7.49 | 20 |
| Di-isopropyl ether | 5.00 | 4.87 | 5.11 | 97.4 | 102 | 58.0-138 | | | 4.81 | 20 |
| Ethylbenzene | 5.00 | 5.47 | 5.80 | 109 | 116 | 79.0-123 | | | 5.86 | 20 |
| 4-Ethyltoluene | 5.00 | 4.80 | 5.50 | 96.0 | 110 | 74.0-127 | | | 13.6 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 5.00 | 3.34 | 100 | 66.8 | 54.0-138 | | J3 | 39.8 | 20 |
| n-Hexane | 5.00 | 4.55 | 5.26 | 91.0 | 105 | 57.0-133 | | | 14.5 | 20 |
| Isopropylbenzene | 5.00 | 5.27 | 5.03 | 105 | 101 | 76.0-127 | | | 4.66 | 20 |
| p-Isopropyltoluene | 5.00 | 4.96 | 5.02 | 99.2 | 100 | 76.0-125 | | | 1.20 | 20 |
| 2-Butanone (MEK) | 25.0 | 26.7 | 23.8 | 107 | 95.2 | 44.0-160 | | | 11.5 | 20 |
| Methyl Cyclohexane | 5.00 | 5.06 | 5.45 | 101 | 109 | 68.0-126 | | | 7.42 | 20 |
| Methylene Chloride | 5.00 | 5.62 | 5.85 | 112 | 117 | 67.0-120 | | | 4.01 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 26.5 | 27.2 | 106 | 109 | 68.0-142 | | | 2.61 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.88 | 5.04 | 97.6 | 101 | 68.0-125 | | | 3.23 | 20 |
| Naphthalene | 5.00 | 5.58 | 3.47 | 112 | 69.4 | 54.0-135 | | J3 | 46.6 | 20 |
| Propene | 5.00 | 4.48 | 8.69 | 89.6 | 174 | 30.0-160 | | J3 J4 | 63.9 | 20 |
| n-Propylbenzene | 5.00 | 5.09 | 5.96 | 102 | 119 | 77.0-124 | | | 15.7 | 20 |
| Styrene | 5.00 | 5.17 | 5.14 | 103 | 103 | 73.0-130 | | | 0.582 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.00 | 5.12 | 100 | 102 | 75.0-125 | | | 2.37 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.72 | 5.46 | 94.4 | 109 | 65.0-130 | | | 14.5 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 6.05 | 6.95 | 121 | 139 | 69.0-132 | | J4 | 13.8 | 20 |
| Tetrachloroethene | 5.00 | 5.32 | 6.09 | 106 | 122 | 72.0-132 | | | 13.5 | 20 |
| Toluene | 5.00 | 5.30 | 5.86 | 106 | 117 | 79.0-120 | | | 10.0 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 5.59 | 3.77 | 112 | 75.4 | 50.0-138 | | J3 | 38.9 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.90 | 3.04 | 98.0 | 60.8 | 57.0-137 | | J3 | 46.9 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 5.09 | 5.60 | 102 | 112 | 73.0-124 | | | 9.54 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 5.25 | 6.24 | 105 | 125 | 80.0-120 | | J4 | 17.2 | 20 |
| Trichloroethene | 5.00 | 5.63 | 6.12 | 113 | 122 | 78.0-124 | | | 8.34 | 20 |
| Trichlorofluoromethane | 5.00 | 5.49 | 6.51 | 110 | 130 | 59.0-147 | | | 17.0 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 5.03 | 5.52 | 101 | 110 | 73.0-130 | | | 9.29 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.88 | 4.78 | 97.6 | 95.6 | 76.0-121 | | | 2.07 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 5.10 | 5.04 | 102 | 101 | 77.0-120 | | | 1.18 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.85 | 5.41 | 97.0 | 108 | 76.0-122 | | | 10.9 | 20 |
| Vinyl chloride | 5.00 | 5.57 | 6.57 | 111 | 131 | 67.0-131 | | | 16.5 | 20 |
| Xylenes, Total | 15.0 | 15.9 | 16.5 | 106 | 110 | 79.0-123 | | | 3.70 | 20 |
| (S) Toluene-d8 | | | | 109 | 116 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 99.9 | 93.4 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 93.6 | 95.9 | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1533308-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533308-04 09/10/22 21:14 • (MS) R3837604-4 09/11/22 01:05 • (MSD) R3837604-5 09/11/22 01:26

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone | 25.0 | U | 19.6 | 23.2 | 78.4 | 92.8 | 1 | 10.0-160 | | | 16.8 | 35 |
| Acrolein | 25.0 | U | 19.3 | 23.1 | 77.2 | 92.4 | 1 | 10.0-160 | | | 17.9 | 39 |
| Acrylonitrile | 25.0 | U | 29.9 | 30.4 | 120 | 122 | 1 | 21.0-160 | | | 1.66 | 32 |
| Benzene | 5.00 | U | 7.08 | 7.07 | 142 | 141 | 1 | 17.0-158 | | | 0.141 | 27 |
| Bromobenzene | 5.00 | U | 7.25 | 7.71 | 145 | 154 | 1 | 30.0-149 | | J5 | 6.15 | 28 |
| Bromodichloromethane | 5.00 | U | 6.12 | 6.49 | 122 | 130 | 1 | 31.0-150 | | | 5.87 | 27 |
| Bromoform | 5.00 | U | 4.93 | 5.14 | 98.6 | 103 | 1 | 29.0-150 | | | 4.17 | 29 |
| Bromomethane | 5.00 | U | 7.89 | 7.12 | 158 | 142 | 1 | 10.0-160 | | | 10.3 | 38 |
| 1,3-Butadiene | 5.00 | U | 8.67 | 9.25 | 173 | 185 | 1 | 10.0-160 | J5 | J5 | 6.47 | 22 |
| n-Butylbenzene | 5.00 | U | 5.75 | 5.85 | 115 | 117 | 1 | 31.0-150 | | | 1.72 | 30 |
| sec-Butylbenzene | 5.00 | U | 6.65 | 6.99 | 133 | 140 | 1 | 33.0-155 | | | 4.99 | 29 |
| tert-Butylbenzene | 5.00 | U | 7.05 | 7.38 | 141 | 148 | 1 | 34.0-153 | | | 4.57 | 28 |
| Carbon tetrachloride | 5.00 | U | 6.49 | 7.33 | 130 | 147 | 1 | 23.0-159 | | | 12.2 | 28 |
| Carbon disulfide | 5.00 | U | 7.42 | 7.52 | 148 | 150 | 1 | 10.0-156 | | | 1.34 | 28 |
| Chlorobenzene | 5.00 | U | 7.08 | 7.14 | 142 | 143 | 1 | 33.0-152 | | | 0.844 | 27 |
| Chlorodibromomethane | 5.00 | U | 6.18 | 5.99 | 124 | 120 | 1 | 37.0-149 | | | 3.12 | 27 |
| Chloroethane | 5.00 | U | 6.49 | 6.70 | 130 | 134 | 1 | 10.0-160 | | | 3.18 | 30 |
| Chloroform | 5.00 | U | 6.85 | 7.02 | 137 | 140 | 1 | 29.0-154 | | | 2.45 | 28 |
| Chloromethane | 5.00 | U | 6.67 | 7.16 | 133 | 143 | 1 | 10.0-160 | | | 7.09 | 29 |
| Cyclohexane | 5.00 | U | 7.44 | 7.51 | 149 | 150 | 1 | 19.0-160 | | | 0.936 | 23 |
| 2-Chlorotoluene | 5.00 | U | 7.03 | 7.61 | 141 | 152 | 1 | 32.0-153 | | | 7.92 | 28 |
| 4-Chlorotoluene | 5.00 | U | 6.99 | 7.21 | 140 | 144 | 1 | 32.0-150 | | | 3.10 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 5.19 | 4.84 | 104 | 96.8 | 1 | 22.0-151 | | | 6.98 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 6.85 | 6.93 | 137 | 139 | 1 | 34.0-147 | | | 1.16 | 27 |
| Dibromomethane | 5.00 | U | 6.73 | 6.68 | 135 | 134 | 1 | 30.0-151 | | | 0.746 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 6.18 | 6.35 | 124 | 127 | 1 | 34.0-149 | | | 2.71 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 6.35 | 6.71 | 127 | 134 | 1 | 36.0-146 | | | 5.51 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 6.27 | 7.06 | 125 | 141 | 1 | 35.0-142 | | | 11.9 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 6.72 | 7.02 | 134 | 140 | 1 | 10.0-160 | | | 4.37 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 6.71 | 6.95 | 134 | 139 | 1 | 25.0-158 | | | 3.51 | 27 |
| 1,2-Dichloroethane | 5.00 | 0.0966 | 6.31 | 6.44 | 124 | 127 | 1 | 29.0-151 | | | 2.04 | 27 |
| 1,1-Dichloroethene | 5.00 | U | 7.57 | 8.07 | 151 | 161 | 1 | 11.0-160 | | J5 | 6.39 | 29 |
| cis-1,2-Dichloroethene | 5.00 | U | 7.10 | 7.25 | 142 | 145 | 1 | 10.0-160 | | | 2.09 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 7.15 | 7.16 | 143 | 143 | 1 | 17.0-153 | | | 0.140 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 6.90 | 6.63 | 138 | 133 | 1 | 30.0-156 | | | 3.99 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 7.22 | 7.27 | 144 | 145 | 1 | 25.0-158 | | | 0.690 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 6.95 | 6.77 | 139 | 135 | 1 | 38.0-147 | | | 2.62 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 5.62 | 5.50 | 112 | 110 | 1 | 34.0-149 | | | 2.16 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 5.94 | 5.86 | 119 | 117 | 1 | 32.0-149 | | | 1.36 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 6.44 | 6.66 | 129 | 133 | 1 | 24.0-152 | | | 3.36 | 29 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

L1533308-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533308-04 09/10/22 21:14 • (MS) R3837604-4 09/11/22 01:05 • (MSD) R3837604-5 09/11/22 01:26

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | U | 0.953 | 2.48 | 19.1 | 49.6 | 1 | 51.0-139 | J6 | J3 J6 | 89.0 | 20 |
| Di-isopropyl ether | 5.00 | U | 6.10 | 6.12 | 122 | 122 | 1 | 21.0-160 | | | 0.327 | 28 |
| Ethylbenzene | 5.00 | U | 7.19 | 6.73 | 144 | 135 | 1 | 30.0-155 | | | 6.61 | 27 |
| 4-Ethyltoluene | 5.00 | U | 6.66 | 7.27 | 133 | 145 | 1 | 10.0-160 | | | 8.76 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | U | 4.04 | 3.99 | 80.8 | 79.8 | 1 | 20.0-154 | | | 1.25 | 34 |
| n-Hexane | 5.00 | U | 5.65 | 6.20 | 113 | 124 | 1 | 10.0-153 | | | 9.28 | 28 |
| Isopropylbenzene | 5.00 | U | 6.15 | 6.43 | 123 | 129 | 1 | 28.0-157 | | | 4.45 | 27 |
| p-Isopropyltoluene | 5.00 | U | 6.33 | 6.57 | 127 | 131 | 1 | 30.0-154 | | | 3.72 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 28.9 | 30.0 | 116 | 120 | 1 | 10.0-160 | | | 3.74 | 32 |
| Methyl Cyclohexane | 5.00 | U | 6.12 | 6.61 | 122 | 132 | 1 | 11.0-160 | | | 7.70 | 24 |
| Methylene Chloride | 5.00 | U | 7.20 | 6.87 | 144 | 137 | 1 | 23.0-144 | | | 4.69 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 33.9 | 33.5 | 136 | 134 | 1 | 29.0-160 | | | 1.19 | 29 |
| Methyl tert-butyl ether | 5.00 | U | 5.89 | 6.02 | 118 | 120 | 1 | 28.0-150 | | | 2.18 | 29 |
| Naphthalene | 5.00 | U | 4.36 | 4.28 | 87.2 | 85.6 | 1 | 12.0-156 | | | 1.85 | 35 |
| Propene | 5.00 | U | 7.53 | 9.83 | 151 | 197 | 1 | 10.0-160 | | J5 | 26.5 | 29 |
| n-Propylbenzene | 5.00 | U | 7.30 | 7.88 | 146 | 158 | 1 | 31.0-154 | | J5 | 7.64 | 28 |
| Styrene | 5.00 | U | 4.96 | 6.09 | 99.2 | 122 | 1 | 33.0-155 | | | 20.5 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 6.39 | 6.35 | 128 | 127 | 1 | 36.0-151 | | | 0.628 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 7.84 | 8.17 | 157 | 163 | 1 | 33.0-150 | J5 | J5 | 4.12 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 7.99 | 8.05 | 160 | 161 | 1 | 23.0-160 | | J5 | 0.748 | 30 |
| Tetrachloroethene | 5.00 | U | 7.78 | 7.81 | 156 | 156 | 1 | 10.0-160 | | | 0.385 | 27 |
| Toluene | 5.00 | U | 7.28 | 7.48 | 146 | 150 | 1 | 26.0-154 | | | 2.71 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 4.35 | 4.20 | 87.0 | 84.0 | 1 | 17.0-150 | | | 3.51 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 3.96 | 3.61 | 79.2 | 72.2 | 1 | 24.0-150 | | | 9.25 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 7.14 | 7.31 | 143 | 146 | 1 | 23.0-160 | | | 2.35 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 7.24 | 7.30 | 145 | 146 | 1 | 35.0-147 | | | 0.825 | 27 |
| Trichloroethene | 5.00 | U | 7.77 | 7.94 | 155 | 159 | 1 | 10.0-160 | | | 2.16 | 25 |
| Trichlorofluoromethane | 5.00 | U | 7.93 | 8.56 | 159 | 171 | 1 | 17.0-160 | | J5 | 7.64 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 7.54 | 7.85 | 151 | 157 | 1 | 34.0-151 | | J5 | 4.03 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 6.09 | 6.63 | 122 | 133 | 1 | 26.0-154 | | | 8.49 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 6.13 | 6.30 | 123 | 126 | 1 | 32.0-149 | | | 2.74 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 6.54 | 7.01 | 131 | 140 | 1 | 28.0-153 | | | 6.94 | 27 |
| Vinyl chloride | 5.00 | U | 8.50 | 8.25 | 170 | 165 | 1 | 10.0-160 | J5 | J5 | 2.99 | 27 |
| Xylenes, Total | 15.0 | U | 20.1 | 20.2 | 134 | 135 | 1 | 29.0-154 | | | 0.496 | 28 |
| (S) Toluene-d8 | | | | | 115 | 114 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 92.9 | 89.6 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 92.6 | 95.3 | | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1533314-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533314-01 09/10/22 21:35 • (MS) R3837604-6 09/11/22 01:47 • (MSD) R3837604-7 09/11/22 02:08

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone | 25.0 | U | 24.3 | 24.9 | 97.2 | 99.6 | 1 | 10.0-160 | | | 2.44 | 35 |
| Acrolein | 25.0 | U | 27.3 | 32.0 | 109 | 128 | 1 | 10.0-160 | | | 15.9 | 39 |
| Acrylonitrile | 25.0 | U | 32.2 | 32.9 | 129 | 132 | 1 | 21.0-160 | | | 2.15 | 32 |
| Benzene | 5.00 | U | 7.64 | 7.37 | 153 | 147 | 1 | 17.0-158 | | | 3.60 | 27 |
| Bromobenzene | 5.00 | U | 7.51 | 7.85 | 150 | 157 | 1 | 30.0-149 | J5 | J5 | 4.43 | 28 |
| Bromodichloromethane | 5.00 | U | 6.52 | 6.26 | 130 | 125 | 1 | 31.0-150 | | | 4.07 | 27 |
| Bromoform | 5.00 | U | 4.92 | 5.46 | 98.4 | 109 | 1 | 29.0-150 | | | 10.4 | 29 |
| Bromomethane | 5.00 | U | 7.79 | 7.32 | 156 | 146 | 1 | 10.0-160 | | | 6.22 | 38 |
| 1,3-Butadiene | 5.00 | U | 10.7 | 10.6 | 214 | 212 | 1 | 10.0-160 | J5 | J5 | 0.939 | 22 |
| n-Butylbenzene | 5.00 | U | 6.19 | 5.88 | 124 | 118 | 1 | 31.0-150 | | | 5.14 | 30 |
| sec-Butylbenzene | 5.00 | U | 7.85 | 7.48 | 157 | 150 | 1 | 33.0-155 | J5 | | 4.83 | 29 |
| tert-Butylbenzene | 5.00 | U | 7.87 | 7.60 | 157 | 152 | 1 | 34.0-153 | J5 | | 3.49 | 28 |
| Carbon tetrachloride | 5.00 | U | 6.22 | 7.61 | 124 | 152 | 1 | 23.0-159 | | | 20.1 | 28 |
| Carbon disulfide | 5.00 | U | 7.73 | 7.57 | 155 | 151 | 1 | 10.0-156 | | | 2.09 | 28 |
| Chlorobenzene | 5.00 | U | 7.41 | 7.21 | 148 | 144 | 1 | 33.0-152 | | | 2.74 | 27 |
| Chlorodibromomethane | 5.00 | U | 6.02 | 6.20 | 120 | 124 | 1 | 37.0-149 | | | 2.95 | 27 |
| Chloroethane | 5.00 | U | 7.45 | 7.26 | 149 | 145 | 1 | 10.0-160 | | | 2.58 | 30 |
| Chloroform | 5.00 | 0.294 | 7.76 | 7.42 | 149 | 143 | 1 | 29.0-154 | | | 4.48 | 28 |
| Chloromethane | 5.00 | U | 7.39 | 7.44 | 148 | 149 | 1 | 10.0-160 | | | 0.674 | 29 |
| Cyclohexane | 5.00 | U | 8.09 | 8.23 | 162 | 165 | 1 | 19.0-160 | J5 | J5 | 1.72 | 23 |
| 2-Chlorotoluene | 5.00 | U | 7.55 | 7.93 | 151 | 159 | 1 | 32.0-153 | | J5 | 4.91 | 28 |
| 4-Chlorotoluene | 5.00 | U | 7.12 | 7.30 | 142 | 146 | 1 | 32.0-150 | | | 2.50 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 5.23 | 5.04 | 105 | 101 | 1 | 22.0-151 | | | 3.70 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 7.21 | 7.11 | 144 | 142 | 1 | 34.0-147 | | | 1.40 | 27 |
| Dibromomethane | 5.00 | U | 6.90 | 6.94 | 138 | 139 | 1 | 30.0-151 | | | 0.578 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 6.60 | 6.62 | 132 | 132 | 1 | 34.0-149 | | | 0.303 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 6.53 | 6.81 | 131 | 136 | 1 | 36.0-146 | | | 4.20 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 6.77 | 6.66 | 135 | 133 | 1 | 35.0-142 | | | 1.64 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 7.32 | 7.39 | 146 | 148 | 1 | 10.0-160 | | | 0.952 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 7.44 | 7.08 | 149 | 142 | 1 | 25.0-158 | | | 4.96 | 27 |
| 1,2-Dichloroethane | 5.00 | U | 6.67 | 6.46 | 133 | 129 | 1 | 29.0-151 | | | 3.20 | 27 |
| 1,1-Dichloroethene | 5.00 | 0.870 | 9.29 | 8.99 | 168 | 162 | 1 | 11.0-160 | J5 | J5 | 3.28 | 29 |
| cis-1,2-Dichloroethene | 5.00 | U | 7.53 | 7.52 | 151 | 150 | 1 | 10.0-160 | | | 0.133 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 7.28 | 7.54 | 146 | 151 | 1 | 17.0-153 | | | 3.51 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 6.85 | 6.90 | 137 | 138 | 1 | 30.0-156 | | | 0.727 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 7.65 | 7.51 | 153 | 150 | 1 | 25.0-158 | | | 1.85 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 7.31 | 7.24 | 146 | 145 | 1 | 38.0-147 | | | 0.962 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 5.89 | 5.96 | 118 | 119 | 1 | 34.0-149 | | | 1.18 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 5.93 | 6.17 | 119 | 123 | 1 | 32.0-149 | | | 3.97 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 6.35 | 6.66 | 127 | 133 | 1 | 24.0-152 | | | 4.77 | 29 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1533314-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533314-01 09/10/22 21:35 • (MS) R3837604-6 09/11/22 01:47 • (MSD) R3837604-7 09/11/22 02:08

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | U | 7.41 | 7.36 | 148 | 147 | 1 | 51.0-139 | J5 | J5 | 0.677 | 20 |
| Di-isopropyl ether | 5.00 | U | 6.31 | 6.60 | 126 | 132 | 1 | 21.0-160 | | | 4.49 | 28 |
| Ethylbenzene | 5.00 | U | 7.00 | 7.29 | 140 | 146 | 1 | 30.0-155 | | | 4.06 | 27 |
| 4-Ethyltoluene | 5.00 | U | 7.52 | 7.41 | 150 | 148 | 1 | 10.0-160 | | | 1.47 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | U | 4.76 | 4.22 | 95.2 | 84.4 | 1 | 20.0-154 | | | 12.0 | 34 |
| n-Hexane | 5.00 | U | 5.93 | 6.18 | 119 | 124 | 1 | 10.0-153 | | | 4.13 | 28 |
| Isopropylbenzene | 5.00 | U | 6.60 | 6.58 | 132 | 132 | 1 | 28.0-157 | | | 0.303 | 27 |
| p-Isopropyltoluene | 5.00 | U | 7.12 | 6.82 | 142 | 136 | 1 | 30.0-154 | | | 4.30 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 31.7 | 31.4 | 127 | 126 | 1 | 10.0-160 | | | 0.951 | 32 |
| Methyl Cyclohexane | 5.00 | U | 6.37 | 6.93 | 127 | 139 | 1 | 11.0-160 | | | 8.42 | 24 |
| Methylene Chloride | 5.00 | U | 7.68 | 7.57 | 154 | 151 | 1 | 23.0-144 | J5 | J5 | 1.44 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 34.2 | 34.5 | 137 | 138 | 1 | 29.0-160 | | | 0.873 | 29 |
| Methyl tert-butyl ether | 5.00 | U | 5.93 | 6.42 | 119 | 128 | 1 | 28.0-150 | | | 7.94 | 29 |
| Naphthalene | 5.00 | U | 4.88 | 4.19 | 97.6 | 83.8 | 1 | 12.0-156 | | | 15.2 | 35 |
| Propene | 5.00 | U | 12.0 | 11.7 | 240 | 234 | 1 | 10.0-160 | J5 | J5 | 2.53 | 29 |
| n-Propylbenzene | 5.00 | U | 7.85 | 7.97 | 157 | 159 | 1 | 31.0-154 | J5 | J5 | 1.52 | 28 |
| Styrene | 5.00 | U | 6.39 | 6.49 | 128 | 130 | 1 | 33.0-155 | | | 1.55 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 6.43 | 6.76 | 129 | 135 | 1 | 36.0-151 | | | 5.00 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 8.25 | 8.63 | 165 | 173 | 1 | 33.0-150 | J5 | J5 | 4.50 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 7.94 | 9.00 | 159 | 180 | 1 | 23.0-160 | | J5 | 12.5 | 30 |
| Tetrachloroethene | 5.00 | U | 8.03 | 7.51 | 161 | 150 | 1 | 10.0-160 | J5 | | 6.69 | 27 |
| Toluene | 5.00 | U | 7.62 | 7.71 | 152 | 154 | 1 | 26.0-154 | | | 1.17 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 5.24 | 4.48 | 105 | 89.6 | 1 | 17.0-150 | | | 15.6 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 4.09 | 3.42 | 81.8 | 68.4 | 1 | 24.0-150 | | | 17.8 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 6.97 | 7.38 | 139 | 148 | 1 | 23.0-160 | | | 5.71 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 7.33 | 7.46 | 147 | 149 | 1 | 35.0-147 | | J5 | 1.76 | 27 |
| Trichloroethene | 5.00 | 1.52 | 10.1 | 10.0 | 172 | 170 | 1 | 10.0-160 | J5 | J5 | 0.995 | 25 |
| Trichlorofluoromethane | 5.00 | U | 8.69 | 9.05 | 174 | 181 | 1 | 17.0-160 | J5 | J5 | 4.06 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 7.72 | 8.35 | 154 | 167 | 1 | 34.0-151 | J5 | J5 | 7.84 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 6.48 | 6.55 | 130 | 131 | 1 | 26.0-154 | | | 1.07 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 6.72 | 6.31 | 134 | 126 | 1 | 32.0-149 | | | 6.29 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 7.19 | 7.25 | 144 | 145 | 1 | 28.0-153 | | | 0.831 | 27 |
| Vinyl chloride | 5.00 | U | 9.11 | 8.87 | 182 | 177 | 1 | 10.0-160 | J5 | J5 | 2.67 | 27 |
| Xylenes, Total | 15.0 | U | 20.3 | 20.7 | 135 | 138 | 1 | 29.0-154 | | | 1.95 | 28 |
| (S) Toluene-d8 | | | | | 113 | 113 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 88.3 | 91.9 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 97.5 | 96.4 | | 70.0-130 | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Is
8 Gl
9 Al
10 Sc

L1533315-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533315-02 09/11/22 00:22 • (MS) R3837604-8 09/11/22 02:29 • (MSD) R3837604-9 09/11/22 02:50

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone | 125 | 170 | 213 | 178 | 34.4 | 6.40 | 5 | 10.0-160 | | J6 | 17.9 | 35 |
| Acrolein | 125 | U | 75.7 | 75.7 | 60.6 | 60.6 | 5 | 10.0-160 | | | 0.000 | 39 |
| Acrylonitrile | 125 | U | 80.1 | 95.2 | 64.1 | 76.2 | 5 | 21.0-160 | | | 17.2 | 32 |
| Benzene | 25.0 | 3.68 | 36.3 | 36.4 | 130 | 131 | 5 | 17.0-158 | | | 0.275 | 27 |
| Bromobenzene | 25.0 | U | 32.0 | 34.6 | 128 | 138 | 5 | 30.0-149 | | | 7.81 | 28 |
| Bromodichloromethane | 25.0 | U | 27.9 | 28.8 | 112 | 115 | 5 | 31.0-150 | | | 3.17 | 27 |
| Bromoform | 25.0 | U | 21.7 | 22.1 | 86.8 | 88.4 | 5 | 29.0-150 | | | 1.83 | 29 |
| Bromomethane | 25.0 | U | 34.8 | 34.7 | 139 | 139 | 5 | 10.0-160 | | | 0.288 | 38 |
| 1,3-Butadiene | 25.0 | U | 47.5 | 53.3 | 190 | 213 | 5 | 10.0-160 | J5 | J5 | 11.5 | 22 |
| n-Butylbenzene | 25.0 | U | 28.8 | 30.3 | 115 | 121 | 5 | 31.0-150 | | | 5.08 | 30 |
| sec-Butylbenzene | 25.0 | U | 32.3 | 32.6 | 129 | 130 | 5 | 33.0-155 | | | 0.925 | 29 |
| tert-Butylbenzene | 25.0 | U | 32.7 | 33.6 | 131 | 134 | 5 | 34.0-153 | | | 2.71 | 28 |
| Carbon tetrachloride | 25.0 | U | 30.4 | 31.6 | 122 | 126 | 5 | 23.0-159 | | | 3.87 | 28 |
| Carbon disulfide | 25.0 | U | 34.6 | 37.7 | 138 | 151 | 5 | 10.0-156 | | | 8.58 | 28 |
| Chlorobenzene | 25.0 | U | 32.5 | 33.4 | 130 | 134 | 5 | 33.0-152 | | | 2.73 | 27 |
| Chlorodibromomethane | 25.0 | U | 27.0 | 27.4 | 108 | 110 | 5 | 37.0-149 | | | 1.47 | 27 |
| Chloroethane | 25.0 | U | 33.9 | 36.6 | 136 | 146 | 5 | 10.0-160 | | | 7.66 | 30 |
| Chloroform | 25.0 | U | 31.5 | 32.9 | 126 | 132 | 5 | 29.0-154 | | | 4.35 | 28 |
| Chloromethane | 25.0 | U | 32.1 | 34.0 | 128 | 136 | 5 | 10.0-160 | | | 5.75 | 29 |
| Cyclohexane | 25.0 | U | 35.7 | 37.3 | 143 | 149 | 5 | 19.0-160 | | | 4.38 | 23 |
| 2-Chlorotoluene | 25.0 | U | 32.5 | 34.4 | 130 | 138 | 5 | 32.0-153 | | | 5.68 | 28 |
| 4-Chlorotoluene | 25.0 | U | 32.4 | 32.0 | 130 | 128 | 5 | 32.0-150 | | | 1.24 | 28 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | U | 24.6 | 27.5 | 98.4 | 110 | 5 | 22.0-151 | | | 11.1 | 34 |
| 1,2-Dibromoethane | 25.0 | U | 30.7 | 31.9 | 123 | 128 | 5 | 34.0-147 | | | 3.83 | 27 |
| Dibromomethane | 25.0 | U | 30.3 | 29.5 | 121 | 118 | 5 | 30.0-151 | | | 2.68 | 27 |
| 1,2-Dichlorobenzene | 25.0 | U | 29.8 | 32.2 | 119 | 129 | 5 | 34.0-149 | | | 7.74 | 28 |
| 1,3-Dichlorobenzene | 25.0 | U | 30.6 | 31.6 | 122 | 126 | 5 | 36.0-146 | | | 3.22 | 27 |
| 1,4-Dichlorobenzene | 25.0 | U | 31.0 | 32.1 | 124 | 128 | 5 | 35.0-142 | | | 3.49 | 27 |
| Dichlorodifluoromethane | 25.0 | U | 38.0 | 40.3 | 152 | 161 | 5 | 10.0-160 | | J5 | 5.87 | 29 |
| 1,1-Dichloroethane | 25.0 | U | 30.6 | 33.3 | 122 | 133 | 5 | 25.0-158 | | | 8.45 | 27 |
| 1,2-Dichloroethane | 25.0 | U | 27.2 | 27.5 | 109 | 110 | 5 | 29.0-151 | | | 1.10 | 27 |
| 1,1-Dichloroethene | 25.0 | 44.1 | 77.7 | 78.1 | 134 | 136 | 5 | 11.0-160 | | | 0.513 | 29 |
| cis-1,2-Dichloroethene | 25.0 | 61.6 | 94.3 | 92.5 | 131 | 124 | 5 | 10.0-160 | | | 1.93 | 27 |
| trans-1,2-Dichloroethene | 25.0 | 2.11 | 35.7 | 36.2 | 134 | 136 | 5 | 17.0-153 | | | 1.39 | 27 |
| 1,2-Dichloropropane | 25.0 | U | 29.8 | 32.1 | 119 | 128 | 5 | 30.0-156 | | | 7.43 | 27 |
| 1,1-Dichloropropene | 25.0 | U | 33.9 | 34.9 | 136 | 140 | 5 | 25.0-158 | | | 2.91 | 27 |
| 1,3-Dichloropropane | 25.0 | U | 31.5 | 32.8 | 126 | 131 | 5 | 38.0-147 | | | 4.04 | 27 |
| cis-1,3-Dichloropropene | 25.0 | U | 26.0 | 26.7 | 104 | 107 | 5 | 34.0-149 | | | 2.66 | 28 |
| trans-1,3-Dichloropropene | 25.0 | U | 26.6 | 28.6 | 106 | 114 | 5 | 32.0-149 | | | 7.25 | 28 |
| 2,2-Dichloropropane | 25.0 | U | 27.5 | 31.8 | 110 | 127 | 5 | 24.0-152 | | | 14.5 | 29 |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

L1533315-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533315-02 09/11/22 00:22 • (MS) R3837604-8 09/11/22 02:29 • (MSD) R3837604-9 09/11/22 02:50

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Dicyclopentadiene | 25.0 | U | 31.6 | 31.6 | 126 | 126 | 5 | 51.0-139 | | | 0.000 | 20 |
| Di-isopropyl ether | 25.0 | U | 27.5 | 28.3 | 110 | 113 | 5 | 21.0-160 | | | 2.87 | 28 |
| Ethylbenzene | 25.0 | U | 31.0 | 34.0 | 124 | 136 | 5 | 30.0-155 | | | 9.23 | 27 |
| 4-Ethyltoluene | 25.0 | U | 32.8 | 33.1 | 131 | 132 | 5 | 10.0-160 | | | 0.910 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | U | 23.4 | 23.5 | 93.6 | 94.0 | 5 | 20.0-154 | | | 0.426 | 34 |
| n-Hexane | 25.0 | U | 31.3 | 30.1 | 125 | 120 | 5 | 10.0-153 | | | 3.91 | 28 |
| Isopropylbenzene | 25.0 | U | 29.8 | 32.1 | 119 | 128 | 5 | 28.0-157 | | | 7.43 | 27 |
| p-Isopropyltoluene | 25.0 | U | 30.4 | 31.7 | 122 | 127 | 5 | 30.0-154 | | | 4.19 | 29 |
| 2-Butanone (MEK) | 125 | 329 | 487 | 397 | 126 | 54.4 | 5 | 10.0-160 | | | 20.4 | 32 |
| Methyl Cyclohexane | 25.0 | U | 34.0 | 35.0 | 136 | 140 | 5 | 11.0-160 | | | 2.90 | 24 |
| Methylene Chloride | 25.0 | 5.56 | 34.1 | 36.7 | 114 | 125 | 5 | 23.0-144 | | | 7.34 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 3.40 | 138 | 141 | 108 | 110 | 5 | 29.0-160 | | | 2.15 | 29 |
| Methyl tert-butyl ether | 25.0 | U | 23.2 | 27.2 | 92.8 | 109 | 5 | 28.0-150 | | | 15.9 | 29 |
| Naphthalene | 25.0 | U | 24.9 | 28.5 | 99.6 | 114 | 5 | 12.0-156 | | | 13.5 | 35 |
| Propene | 25.0 | U | 60.0 | 66.7 | 240 | 267 | 5 | 10.0-160 | J5 | J5 | 10.6 | 29 |
| n-Propylbenzene | 25.0 | U | 34.5 | 34.9 | 138 | 140 | 5 | 31.0-154 | | | 1.15 | 28 |
| Styrene | 25.0 | U | 28.5 | 29.7 | 114 | 119 | 5 | 33.0-155 | | | 4.12 | 28 |
| 1,1,1,2-Tetrachloroethane | 25.0 | U | 30.0 | 28.8 | 120 | 115 | 5 | 36.0-151 | | | 4.08 | 29 |
| 1,1,2,2-Tetrachloroethane | 25.0 | U | 31.8 | 35.3 | 127 | 141 | 5 | 33.0-150 | | | 10.4 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | U | 42.5 | 44.1 | 170 | 176 | 5 | 23.0-160 | J5 | J5 | 3.70 | 30 |
| Tetrachloroethene | 25.0 | U | 37.9 | 37.7 | 152 | 151 | 5 | 10.0-160 | | | 0.529 | 27 |
| Toluene | 25.0 | U | 34.0 | 34.0 | 136 | 136 | 5 | 26.0-154 | | | 0.000 | 28 |
| 1,2,3-Trichlorobenzene | 25.0 | U | 25.9 | 28.3 | 104 | 113 | 5 | 17.0-150 | | | 8.86 | 36 |
| 1,2,4-Trichlorobenzene | 25.0 | U | 21.3 | 23.0 | 85.2 | 92.0 | 5 | 24.0-150 | | | 7.67 | 33 |
| 1,1,1-Trichloroethane | 25.0 | U | 31.4 | 33.7 | 126 | 135 | 5 | 23.0-160 | | | 7.07 | 28 |
| 1,1,2-Trichloroethane | 25.0 | U | 32.3 | 34.2 | 129 | 137 | 5 | 35.0-147 | | | 5.71 | 27 |
| Trichloroethene | 25.0 | 293 | 309 | 295 | 64.0 | 8.00 | 5 | 10.0-160 | | V | 4.64 | 25 |
| Trichlorofluoromethane | 25.0 | U | 41.2 | 41.9 | 165 | 168 | 5 | 17.0-160 | J5 | J5 | 1.68 | 31 |
| 1,2,3-Trichloropropane | 25.0 | U | 31.9 | 35.1 | 128 | 140 | 5 | 34.0-151 | | | 9.55 | 29 |
| 1,2,4-Trimethylbenzene | 25.0 | U | 31.7 | 31.8 | 127 | 127 | 5 | 26.0-154 | | | 0.315 | 27 |
| 1,2,3-Trimethylbenzene | 25.0 | U | 29.5 | 33.0 | 118 | 132 | 5 | 32.0-149 | | | 11.2 | 28 |
| 1,3,5-Trimethylbenzene | 25.0 | U | 32.0 | 32.2 | 128 | 129 | 5 | 28.0-153 | | | 0.623 | 27 |
| Vinyl chloride | 25.0 | 2.28 | 42.0 | 44.1 | 159 | 167 | 5 | 10.0-160 | | J5 | 4.88 | 27 |
| Xylenes, Total | 75.0 | U | 92.7 | 96.9 | 124 | 129 | 5 | 29.0-154 | | | 4.43 | 28 |
| (S) Toluene-d8 | | | | | 114 | 114 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 95.3 | 95.3 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 93.2 | 87.7 | | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Sample Narrative:

OS: Lowest possible dilution due to sample foaming.

Method Blank (MB)

(MB) R3838082-3 09/15/22 23:38

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| 1,3-Butadiene | U | | 0.299 | 2.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Carbon disulfide | U | | 0.0962 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| Cyclohexane | U | | 0.188 | 1.00 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3838082-3 09/15/22 23:38

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Dicyclopentadiene | U | | 0.253 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |
| n-Hexane | U | | 0.749 | 10.0 |
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| Propene | U | | 0.936 | 2.50 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| (S) Toluene-d8 | 110 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 113 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 94.3 | | | 70.0-130 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3838082-1 09/15/22 22:33 • (LCSD) R3838082-2 09/15/22 22:55

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Acetone | 25.0 | 20.9 | 21.7 | 83.6 | 86.8 | 19.0-160 | | | 3.76 | 27 |
| Acrolein | 25.0 | 27.6 | 29.7 | 110 | 119 | 30.0-160 | | | 7.33 | 26 |
| Acrylonitrile | 25.0 | 24.7 | 25.1 | 98.8 | 100 | 55.0-149 | | | 1.61 | 20 |
| Benzene | 5.00 | 5.53 | 5.80 | 111 | 116 | 70.0-123 | | | 4.77 | 20 |
| Bromobenzene | 5.00 | 3.79 | 3.91 | 75.8 | 78.2 | 73.0-121 | | | 3.12 | 20 |
| Bromodichloromethane | 5.00 | 4.97 | 4.93 | 99.4 | 98.6 | 75.0-120 | | | 0.808 | 20 |
| Bromoform | 5.00 | 5.42 | 5.38 | 108 | 108 | 68.0-132 | | | 0.741 | 20 |
| Bromomethane | 5.00 | 2.20 | 2.37 | 44.0 | 47.4 | 30.0-160 | | | 7.44 | 25 |
| 1,3-Butadiene | 5.00 | 4.21 | 4.65 | 84.2 | 93.0 | 45.0-147 | | | 9.93 | 20 |
| n-Butylbenzene | 5.00 | 3.83 | 3.98 | 76.6 | 79.6 | 73.0-125 | | | 3.84 | 20 |
| sec-Butylbenzene | 5.00 | 4.19 | 4.33 | 83.8 | 86.6 | 75.0-125 | | | 3.29 | 20 |
| tert-Butylbenzene | 5.00 | 4.16 | 4.45 | 83.2 | 89.0 | 76.0-124 | | | 6.74 | 20 |
| Carbon tetrachloride | 5.00 | 5.17 | 5.62 | 103 | 112 | 68.0-126 | | | 8.34 | 20 |
| Carbon disulfide | 5.00 | 5.06 | 5.60 | 101 | 112 | 61.0-128 | | | 10.1 | 20 |
| Chlorobenzene | 5.00 | 5.62 | 5.80 | 112 | 116 | 80.0-121 | | | 3.15 | 20 |
| Chlorodibromomethane | 5.00 | 5.02 | 4.89 | 100 | 97.8 | 77.0-125 | | | 2.62 | 20 |
| Chloroethane | 5.00 | 4.99 | 5.58 | 99.8 | 112 | 47.0-150 | | | 11.2 | 20 |
| Chloroform | 5.00 | 5.42 | 5.41 | 108 | 108 | 73.0-120 | | | 0.185 | 20 |
| Chloromethane | 5.00 | 2.65 | 3.03 | 53.0 | 60.6 | 41.0-142 | | | 13.4 | 20 |
| Cyclohexane | 5.00 | 5.58 | 5.86 | 112 | 117 | 71.0-124 | | | 4.90 | 20 |
| 2-Chlorotoluene | 5.00 | 4.15 | 4.28 | 83.0 | 85.6 | 76.0-123 | | | 3.08 | 20 |
| 4-Chlorotoluene | 5.00 | 3.89 | 4.09 | 77.8 | 81.8 | 75.0-122 | | | 5.01 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 3.91 | 4.00 | 78.2 | 80.0 | 58.0-134 | | | 2.28 | 20 |
| 1,2-Dibromoethane | 5.00 | 5.15 | 5.42 | 103 | 108 | 80.0-122 | | | 5.11 | 20 |
| Dibromomethane | 5.00 | 5.53 | 5.25 | 111 | 105 | 80.0-120 | | | 5.19 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.54 | 4.48 | 90.8 | 89.6 | 79.0-121 | | | 1.33 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.53 | 4.84 | 90.6 | 96.8 | 79.0-120 | | | 6.62 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.65 | 4.42 | 93.0 | 88.4 | 79.0-120 | | | 5.07 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.26 | 5.37 | 105 | 107 | 51.0-149 | | | 2.07 | 20 |
| 1,1-Dichloroethane | 5.00 | 4.90 | 5.47 | 98.0 | 109 | 70.0-126 | | | 11.0 | 20 |
| 1,2-Dichloroethane | 5.00 | 4.54 | 4.50 | 90.8 | 90.0 | 70.0-128 | | | 0.885 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.90 | 6.43 | 118 | 129 | 71.0-124 | | J4 | 8.60 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 5.66 | 5.97 | 113 | 119 | 73.0-120 | | | 5.33 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 6.07 | 6.09 | 121 | 122 | 73.0-120 | J4 | J4 | 0.329 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.16 | 5.35 | 103 | 107 | 77.0-125 | | | 3.62 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.07 | 5.58 | 101 | 112 | 74.0-126 | | | 9.58 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.90 | 4.83 | 98.0 | 96.6 | 80.0-120 | | | 1.44 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.91 | 5.03 | 98.2 | 101 | 80.0-123 | | | 2.41 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.45 | 4.46 | 89.0 | 89.2 | 78.0-124 | | | 0.224 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.38 | 4.49 | 87.6 | 89.8 | 58.0-130 | | | 2.48 | 20 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3838082-1 09/15/22 22:33 • (LCSD) R3838082-2 09/15/22 22:55

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | 3.85 | 3.97 | 77.0 | 79.4 | 74.0-126 | | | 3.07 | 20 |
| Di-isopropyl ether | 5.00 | 4.30 | 4.56 | 86.0 | 91.2 | 58.0-138 | | | 5.87 | 20 |
| Ethylbenzene | 5.00 | 5.32 | 5.49 | 106 | 110 | 79.0-123 | | | 3.15 | 20 |
| 4-Ethyltoluene | 5.00 | 4.12 | 4.24 | 82.4 | 84.8 | 74.0-127 | | | 2.87 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 4.66 | 5.01 | 93.2 | 100 | 54.0-138 | | | 7.24 | 20 |
| n-Hexane | 5.00 | 4.75 | 4.63 | 95.0 | 92.6 | 57.0-133 | | | 2.56 | 20 |
| Isopropylbenzene | 5.00 | 5.34 | 5.61 | 107 | 112 | 76.0-127 | | | 4.93 | 20 |
| p-Isopropyltoluene | 5.00 | 4.23 | 4.29 | 84.6 | 85.8 | 76.0-125 | | | 1.41 | 20 |
| 2-Butanone (MEK) | 25.0 | 20.0 | 21.1 | 80.0 | 84.4 | 44.0-160 | | | 5.35 | 20 |
| Methyl Cyclohexane | 5.00 | 5.38 | 5.68 | 108 | 114 | 68.0-126 | | | 5.42 | 20 |
| Methylene Chloride | 5.00 | 5.49 | 5.71 | 110 | 114 | 67.0-120 | | | 3.93 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 20.1 | 20.8 | 80.4 | 83.2 | 68.0-142 | | | 3.42 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.76 | 5.08 | 95.2 | 102 | 68.0-125 | | | 6.50 | 20 |
| Naphthalene | 5.00 | 3.64 | 4.00 | 72.8 | 80.0 | 54.0-135 | | | 9.42 | 20 |
| Propene | 5.00 | 3.22 | 3.41 | 64.4 | 68.2 | 30.0-160 | | | 5.73 | 20 |
| n-Propylbenzene | 5.00 | 4.06 | 4.16 | 81.2 | 83.2 | 77.0-124 | | | 2.43 | 20 |
| Styrene | 5.00 | 5.08 | 5.32 | 102 | 106 | 73.0-130 | | | 4.62 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.39 | 5.35 | 108 | 107 | 75.0-125 | | | 0.745 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 3.86 | 3.84 | 77.2 | 76.8 | 65.0-130 | | | 0.519 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.79 | 6.17 | 116 | 123 | 69.0-132 | | | 6.35 | 20 |
| Tetrachloroethene | 5.00 | 5.89 | 6.12 | 118 | 122 | 72.0-132 | | | 3.83 | 20 |
| Toluene | 5.00 | 5.18 | 5.39 | 104 | 108 | 79.0-120 | | | 3.97 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.48 | 4.49 | 89.6 | 89.8 | 50.0-138 | | | 0.223 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.43 | 4.78 | 88.6 | 95.6 | 57.0-137 | | | 7.60 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 5.37 | 5.53 | 107 | 111 | 73.0-124 | | | 2.94 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 5.37 | 5.36 | 107 | 107 | 80.0-120 | | | 0.186 | 20 |
| Trichloroethene | 5.00 | 5.89 | 6.49 | 118 | 130 | 78.0-124 | | J4 | 9.69 | 20 |
| Trichlorofluoromethane | 5.00 | 5.80 | 5.94 | 116 | 119 | 59.0-147 | | | 2.39 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.11 | 4.33 | 82.2 | 86.6 | 73.0-130 | | | 5.21 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 3.96 | 4.08 | 79.2 | 81.6 | 76.0-121 | | | 2.99 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.16 | 4.34 | 83.2 | 86.8 | 77.0-120 | | | 4.24 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.02 | 4.24 | 80.4 | 84.8 | 76.0-122 | | | 5.33 | 20 |
| Vinyl chloride | 5.00 | 5.35 | 5.72 | 107 | 114 | 67.0-131 | | | 6.68 | 20 |
| Xylenes, Total | 15.0 | 16.3 | 16.6 | 109 | 111 | 79.0-123 | | | 1.82 | 20 |
| (S) Toluene-d8 | | | | 107 | 105 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 114 | 114 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 95.4 | 93.3 | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1533498-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533498-01 09/16/22 00:15 • (MS) R3838082-4 09/16/22 09:34 • (MSD) R3838082-5 09/16/22 09:55

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone | 25.0 | U | 24.6 | 26.2 | 98.4 | 105 | 1 | 10.0-160 | | | 6.30 | 35 |
| Acrolein | 25.0 | U | 34.3 | 40.5 | 137 | 162 | 1 | 10.0-160 | | J5 | 16.6 | 39 |
| Acrylonitrile | 25.0 | U | 27.8 | 28.9 | 111 | 116 | 1 | 21.0-160 | | | 3.88 | 32 |
| Benzene | 5.00 | U | 4.82 | 6.91 | 96.4 | 138 | 1 | 17.0-158 | | J3 | 35.6 | 27 |
| Bromobenzene | 5.00 | U | 3.55 | 4.50 | 71.0 | 90.0 | 1 | 30.0-149 | | | 23.6 | 28 |
| Bromodichloromethane | 5.00 | U | 4.65 | 6.15 | 93.0 | 123 | 1 | 31.0-150 | | J3 | 27.8 | 27 |
| Bromoform | 5.00 | U | 5.55 | 6.60 | 111 | 132 | 1 | 29.0-150 | | | 17.3 | 29 |
| Bromomethane | 5.00 | U | 1.69 | 3.07 | 33.8 | 61.4 | 1 | 10.0-160 | | J3 | 58.0 | 38 |
| 1,3-Butadiene | 5.00 | U | 3.73 | 5.81 | 74.6 | 116 | 1 | 10.0-160 | | J3 J3 | 43.6 | 22 |
| n-Butylbenzene | 5.00 | U | 3.14 | 4.35 | 62.8 | 87.0 | 1 | 31.0-150 | | J3 J3 | 32.3 | 30 |
| sec-Butylbenzene | 5.00 | U | 3.47 | 5.32 | 69.4 | 106 | 1 | 33.0-155 | | J3 J3 | 42.1 | 29 |
| tert-Butylbenzene | 5.00 | U | 3.53 | 5.31 | 70.6 | 106 | 1 | 34.0-153 | | J3 J3 | 40.3 | 28 |
| Carbon tetrachloride | 5.00 | U | 4.78 | 7.27 | 95.6 | 145 | 1 | 23.0-159 | | J3 J3 | 41.3 | 28 |
| Carbon disulfide | 5.00 | U | 4.29 | 6.76 | 85.8 | 135 | 1 | 10.0-156 | | J3 J3 | 44.7 | 28 |
| Chlorobenzene | 5.00 | U | 4.84 | 6.81 | 96.8 | 136 | 1 | 33.0-152 | | J3 J3 | 33.8 | 27 |
| Chlorodibromomethane | 5.00 | U | 4.80 | 5.68 | 96.0 | 114 | 1 | 37.0-149 | | | 16.8 | 27 |
| Chloroethane | 5.00 | U | 4.61 | 6.81 | 92.2 | 136 | 1 | 10.0-160 | | J3 | 38.5 | 30 |
| Chloroform | 5.00 | U | 4.56 | 6.41 | 91.2 | 128 | 1 | 29.0-154 | | J3 J3 | 33.7 | 28 |
| Chloromethane | 5.00 | U | 2.20 | 3.30 | 44.0 | 66.0 | 1 | 10.0-160 | | J3 J3 | 40.0 | 29 |
| Cyclohexane | 5.00 | U | 4.75 | 7.36 | 95.0 | 147 | 1 | 19.0-160 | | J3 J3 | 43.1 | 23 |
| 2-Chlorotoluene | 5.00 | U | 3.53 | 5.04 | 70.6 | 101 | 1 | 32.0-153 | | J3 J3 | 35.2 | 28 |
| 4-Chlorotoluene | 5.00 | U | 3.24 | 4.55 | 64.8 | 91.0 | 1 | 32.0-150 | | J3 J3 | 33.6 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 4.56 | 5.05 | 91.2 | 101 | 1 | 22.0-151 | | | 10.2 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 5.05 | 6.42 | 101 | 128 | 1 | 34.0-147 | | | 23.9 | 27 |
| Dibromomethane | 5.00 | U | 5.32 | 6.57 | 106 | 131 | 1 | 30.0-151 | | | 21.0 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 3.95 | 5.49 | 79.0 | 110 | 1 | 34.0-149 | | J3 | 32.6 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 3.97 | 5.24 | 79.4 | 105 | 1 | 36.0-146 | | J3 J3 | 27.6 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 4.00 | 5.33 | 80.0 | 107 | 1 | 35.0-142 | | J3 J3 | 28.5 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 4.21 | 6.78 | 84.2 | 136 | 1 | 10.0-160 | | J3 J3 | 46.8 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 4.35 | 6.38 | 87.0 | 128 | 1 | 25.0-158 | | J3 | 37.8 | 27 |
| 1,2-Dichloroethane | 5.00 | 0.939 | 5.31 | 6.49 | 87.4 | 111 | 1 | 29.0-151 | | | 20.0 | 27 |
| 1,1-Dichloroethene | 5.00 | U | 5.18 | 7.63 | 104 | 153 | 1 | 11.0-160 | | J3 | 38.3 | 29 |
| cis-1,2-Dichloroethene | 5.00 | U | 5.05 | 7.13 | 101 | 143 | 1 | 10.0-160 | | J3 J3 | 34.2 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 5.08 | 7.28 | 102 | 146 | 1 | 17.0-153 | | J3 J3 | 35.6 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 4.67 | 6.44 | 93.4 | 129 | 1 | 30.0-156 | | J3 J3 | 31.9 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 4.57 | 6.79 | 91.4 | 136 | 1 | 25.0-158 | | J3 | 39.1 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 4.61 | 5.76 | 92.2 | 115 | 1 | 38.0-147 | | | 22.2 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 4.42 | 5.90 | 88.4 | 118 | 1 | 34.0-149 | | J3 | 28.7 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 4.13 | 5.05 | 82.6 | 101 | 1 | 32.0-149 | | | 20.0 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 3.75 | 5.81 | 75.0 | 116 | 1 | 24.0-152 | | J3 | 43.1 | 29 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

L1533498-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533498-01 09/16/22 00:15 • (MS) R3838082-4 09/16/22 09:34 • (MSD) R3838082-5 09/16/22 09:55

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | U | 2.64 | 4.06 | 52.8 | 81.2 | 1 | 51.0-139 | | 133 | 42.4 | 20 |
| Di-isopropyl ether | 5.00 | U | 4.21 | 5.51 | 84.2 | 110 | 1 | 21.0-160 | | | 26.7 | 28 |
| Ethylbenzene | 5.00 | U | 4.50 | 6.63 | 90.0 | 133 | 1 | 30.0-155 | | 133 | 38.3 | 27 |
| 4-Ethyltoluene | 5.00 | U | 3.27 | 4.87 | 65.4 | 97.4 | 1 | 10.0-160 | | 133 | 39.3 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | U | 4.25 | 6.09 | 85.0 | 122 | 1 | 20.0-154 | | 133 | 35.6 | 34 |
| n-Hexane | 5.00 | U | 3.86 | 5.97 | 77.2 | 119 | 1 | 10.0-153 | | 133 | 42.9 | 28 |
| Isopropylbenzene | 5.00 | U | 4.22 | 6.56 | 84.4 | 131 | 1 | 28.0-157 | | 133 | 43.4 | 27 |
| p-Isopropyltoluene | 5.00 | U | 3.44 | 5.09 | 68.8 | 102 | 1 | 30.0-154 | | 133 | 38.7 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 26.3 | 27.8 | 105 | 111 | 1 | 10.0-160 | | | 5.55 | 32 |
| Methyl Cyclohexane | 5.00 | U | 4.80 | 6.92 | 96.0 | 138 | 1 | 11.0-160 | | 133 | 36.2 | 24 |
| Methylene Chloride | 5.00 | U | 5.03 | 6.75 | 101 | 135 | 1 | 23.0-144 | | 133 | 29.2 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 25.0 | 27.2 | 100 | 109 | 1 | 29.0-160 | | | 8.43 | 29 |
| Methyl tert-butyl ether | 5.00 | 0.342 | 5.58 | 6.42 | 105 | 122 | 1 | 28.0-150 | | | 14.0 | 29 |
| Naphthalene | 5.00 | U | 3.87 | 4.92 | 77.4 | 98.4 | 1 | 12.0-156 | | | 23.9 | 35 |
| Propene | 5.00 | U | 2.80 | 4.41 | 56.0 | 88.2 | 1 | 10.0-160 | | 133 | 44.7 | 29 |
| n-Propylbenzene | 5.00 | U | 3.27 | 4.91 | 65.4 | 98.2 | 1 | 31.0-154 | | 133 | 40.1 | 28 |
| Styrene | 5.00 | U | 4.39 | 5.89 | 87.8 | 118 | 1 | 33.0-155 | | 133 | 29.2 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 4.75 | 6.37 | 95.0 | 127 | 1 | 36.0-151 | | 133 | 29.1 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 4.53 | 5.07 | 90.6 | 101 | 1 | 33.0-150 | | | 11.2 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 5.04 | 7.73 | 101 | 155 | 1 | 23.0-160 | | 133 | 42.1 | 30 |
| Tetrachloroethene | 5.00 | U | 5.02 | 7.35 | 100 | 147 | 1 | 10.0-160 | | 133 | 37.7 | 27 |
| Toluene | 5.00 | U | 4.24 | 6.38 | 84.8 | 128 | 1 | 26.0-154 | | 133 | 40.3 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 4.02 | 5.03 | 80.4 | 101 | 1 | 17.0-150 | | | 22.3 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 3.97 | 5.30 | 79.4 | 106 | 1 | 24.0-150 | | | 28.7 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 4.43 | 6.91 | 88.6 | 138 | 1 | 23.0-160 | | 133 | 43.7 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 5.47 | 6.29 | 109 | 126 | 1 | 35.0-147 | | | 13.9 | 27 |
| Trichloroethene | 5.00 | U | 5.10 | 7.75 | 102 | 155 | 1 | 10.0-160 | | 133 | 41.2 | 25 |
| Trichlorofluoromethane | 5.00 | U | 4.87 | 7.81 | 97.4 | 156 | 1 | 17.0-160 | | 133 | 46.4 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 4.87 | 5.38 | 97.4 | 108 | 1 | 34.0-151 | | | 9.95 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 3.33 | 4.73 | 66.6 | 94.6 | 1 | 26.0-154 | | 133 | 34.7 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 3.57 | 4.93 | 71.4 | 98.6 | 1 | 32.0-149 | | 133 | 32.0 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 3.35 | 4.81 | 67.0 | 96.2 | 1 | 28.0-153 | | 133 | 35.8 | 27 |
| Vinyl chloride | 5.00 | U | 4.38 | 6.76 | 87.6 | 135 | 1 | 10.0-160 | | 133 | 42.7 | 27 |
| Xylenes, Total | 15.0 | U | 13.5 | 19.3 | 90.0 | 129 | 1 | 29.0-154 | | 133 | 35.4 | 28 |
| (S) Toluene-d8 | | | | | 103 | 106 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 113 | 113 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 96.5 | 96.8 | | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3837974-3 09/15/22 23:56

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------------|-----------|--------------|--------|----------|
| | ug/l | | ug/l | ug/l |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| (S) Toluene-d8 | 109 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 99.9 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 104 | | | 70.0-130 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837974-1 09/15/22 22:51 • (LCSD) R3837974-2 09/15/22 23:14

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | ug/l | ug/l | ug/l | % | % | % | | | % | % |
| 1,1-Dichloroethene | 5.00 | 5.32 | 4.65 | 106 | 93.0 | 71.0-124 | | | 13.4 | 20 |
| Trichloroethene | 5.00 | 4.69 | 4.80 | 93.8 | 96.0 | 78.0-124 | | | 2.32 | 20 |
| (S) Toluene-d8 | | | | 108 | 109 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 103 | 105 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 112 | 109 | 70.0-130 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3838834-3 09/14/22 14:54

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------|-----------|--------------|--------|----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 |
| (S) Toluene-d8 | 98.1 | | | 77.0-127 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3838834-1 09/14/22 13:53 • (LCSD) R3838834-2 09/14/22 14:13

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| 1,4-Dioxane | 50.0 | 46.5 | 35.8 | 93.0 | 71.6 | 55.0-138 | | J3 | 26.0 | 24 |
| (S) Toluene-d8 | | | | 98.4 | 97.8 | 77.0-127 | | | | |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3839351-3 09/20/22 13:29

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------|-----------|--------------|--------|----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 |
| (S) Toluene-d8 | 102 | | | 77.0-127 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3839351-1 09/20/22 12:29 • (LCSD) R3839351-2 09/20/22 12:49

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| 1,4-Dioxane | 50.0 | 43.4 | 39.9 | 86.8 | 79.8 | 55.0-138 | | | 8.40 | 24 |
| (S) Toluene-d8 | | | | 101 | 102 | 77.0-127 | | | | |

L1533315-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1533315-02 09/20/22 14:12 • (MS) R3839351-4 09/20/22 16:32 • (MSD) R3839351-5 09/20/22 16:52

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| 1,4-Dioxane | 500 | 152 | 533 | 677 | 76.2 | 105 | 10 | 13.0-160 | | | 23.8 | 31 |
| (S) Toluene-d8 | | | | | 104 | 104 | | 77.0-127 | | | | |

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS6 • File ID: 0915_35

09/15/22 22:33

| Sample ID | File ID | 8260-FLUOROBENZENE Response | 8260-CHLOROBENZENE-D5 Response | 8260-1,4-DICHLOROBENZENE-D4 Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard | 0915_35 | 367514 | 162142 | 165728 |
| Upper Limit | | 735028 | 324284 | 331456 |
| Lower Limit | | 183757 | 81071 | 82864 |
| LCS R3838082-1 WG1926870 1x | 0915_35LCSA | 367514 | 162142 | 165728 |
| LCSD R3838082-2 WG1926870 1x | 0915_36A | 372049 | 165172 | 171111 |
| BLANK R3838082-3 WG1926870 1x | 0915_38A | 382477 | 157068 | 158959 |
| L1533315-03 WG1926870 100x | 0915_42 | 380797 | 161518 | 167729 |
| MS R3838082-4 WG1926870 1x | 0915_65 | 364526 | 162385 | 166347 |
| MSD R3838082-5 WG1926870 1x | 0915_66 | 353978 | 160292 | 164460 |

Instrument: VOCMS21 • File ID: 0915A_36

09/15/22 22:51

| Sample ID | File ID | 8260-FLUOROBENZENE Response | 8260-CHLOROBENZENE-D5 Response | 8260-1,4-DICHLOROBENZENE-D4 Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard | 0915A_36 | 154847 | 72619 | 66655 |
| Upper Limit | | 309694 | 145238 | 133310 |
| Lower Limit | | 77424 | 36310 | 33328 |
| LCS R3837974-1 WG1927005 1x | 0915A_36LCS | 154847 | 72619 | 66655 |
| LCSD R3837974-2 WG1927005 1x | 0915A_37 | 146042 | 67211 | 62889 |
| BLANK R3837974-3 WG1927005 1x | 0915A_39A | 136541 | 61206 | 54215 |
| L1533315-01 WG1927005 10x | 0915A_41 | 135768 | 62685 | 58251 |
| L1533315-02 WG1927005 5x | 0915A_42 | 141767 | 63026 | 62057 |
| L1533315-04 WG1927005 200x | 0915A_43 | 138629 | 61841 | 55052 |

Instrument: VOCMS33 • File ID: 0910_27

09/10/22 16:41

| Sample ID | File ID | 8260-FLUOROBENZENE Response | 8260-CHLOROBENZENE-D5 Response | 8260-1,4-DICHLOROBENZENE-D4 Response |
|-----------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard | 0910_27 | 323788 | 134138 | 127146 |
| Upper Limit | | 647576 | 268276 | 254292 |
| Lower Limit | | 161894 | 67069 | 63573 |
| LCS R3837604-1 WG1924204 1x | 0910_27LCS | 323788 | 134138 | 127146 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS33 • File ID: 0910_27

09/10/22 16:41

| Sample ID | File ID | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|---------|--------------------|-----------------------|-----------------------------|
| | | Response | Response | Response |
| LCSD R3837604-2 WG1924204 1x | 0910_28 | 303265 | 116629 | 83562 |
| BLANK R3837604-3 WG1924204 1x | 0910_30 | 316653 | 116412 | 80090 |
| L1533315-05 WG1924204 1x | 0910_34 | 305309 | 115490 | 82141 |
| L1533315-04 WG1924204 1x | 0910_47 | 313475 | 118687 | 83115 |
| L1533315-01 WG1924204 10x | 0910_48 | 298826 | 110777 | 75569 |
| L1533315-02 WG1924204 5x | 0910_49 | 295251 | 109797 | 81115 |
| MS R3837604-4 WG1924204 1x | 0910_51 | 305191 | 115748 | 83485 |
| MSD R3837604-5 WG1924204 1x | 0910_52 | 305577 | 117719 | 79638 |
| MS R3837604-6 WG1924204 1x | 0910_53 | 298305 | 117312 | 80692 |
| MSD R3837604-7 WG1924204 1x | 0910_54 | 304845 | 117960 | 77982 |
| MS R3837604-8 WG1924204 5x | 0910_55 | 302657 | 115224 | 83128 |
| MSD R3837604-9 WG1924204 5x | 0910_56 | 302464 | 119870 | 88381 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS27 • File ID: 0914_09

09/14/22 12:33

| Sample ID | File ID | 8260-FLUOROBENZENE Response |
|-------------------------------|---------|--------------------------------|
| Standard | 0914_09 | 1231638 |
| Upper Limit | | 2463276 |
| Lower Limit | | 615819 |
| LCS R3838834-1 WG1926249 1x | 0914_10 | 1152744 |
| LCSD R3838834-2 WG1926249 1x | 0914_11 | 1315186 |
| BLANK R3838834-3 WG1926249 1x | 0914_13 | 1092656 |
| L1533315-01 WG1926249 1x | 0914_22 | 1296615 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Instrument: VOCMS27 • File ID: 0920_03

09/20/22 12:10

| Sample ID | File ID | 8260-FLUOROBENZENE Response |
|-------------------------------|----------|--------------------------------|
| Standard | 0920_03 | 1243769 |
| Upper Limit | | 2487538 |
| Lower Limit | | 621885 |
| LCS R3839351-1 WG1928820 1x | 0920_04 | 1003291 |
| LCSD R3839351-2 WG1928820 1x | 0920_05A | 1259141 |
| BLANK R3839351-3 WG1928820 1x | 0920_07 | 1022301 |
| L1533315-02 WG1928820 10x | 0920_08 | 1360352 |
| L1533315-03 WG1928820 10x | 0920_09 | 1069199 |
| L1533315-04 WG1928820 10x | 0920_10 | 1316207 |
| MS R3839351-4 WG1928820 10x | 0920_15 | 1171874 |
| MSD R3839351-5 WG1928820 10x | 0920_16 | 982442 |

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|-----------|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| Q | Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



4815 E. Carefree Highway #108-274 Cave Creek, AZ 85331

Email To: guarnieri@pinyon-env.com; musson@pinyon-

Report to: **Jeremy Musson**

City/State Collected: **Mesa, AZ** Please Circle: PT MT CT ET

Project Description: **Nammo TTU Groundwater Monitoring**

Client Project # **722152201.002** Lab Project # **PINYONMAZ-722152201**

Phone: **602-290-4774**

Site/Facility ID # P.O. #

Collected by (print): **Isabella Foster**

Quote #

Collected by (signature): *[Signature]*
 Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Immediately Packed on Ice N Y

Date Results Needed: **Standard TAT**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | PERCHLORATE 125mlHDPE-NoPres | V8260AZ 40mlAmb-HCl | V8260LL14D 40mlAmb-HCl | | | | | | | | | | | |
|--------------------|-----------|----------|-------|--------|------|--------------|------------------------------|---------------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|
| TTU-11-73-20220903 | | GW | 73 | 9/3/22 | 0930 | 7 | X | X | X | | | | | | | | | | | |
| TTU-19-73-20220903 | | GW | 73 | 1 | 1031 | 14 | X | X | X | | | | | | | | | | | |
| TTU-20-73-20220903 | | GW | 73 | 1 | 0844 | 7 | X | X | X | | | | | | | | | | | |
| Dup-01 | | GW | 73 | 1 | 0844 | 7 | X | X | X | | | | | | | | | | | |
| Trip Blank 2 | | GW | - | - | - | 1 | | X | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | |

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **1933319**
G201

Acctnum: **PINYONMAZ**
 Template: **T205653**
 Prelogin: **P947435**
 PM: **288 - Daphne Richards**
 PB:

Shipped Via:

* Matrix: **SS - Soil AIR - Air F - Filter**
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: UPS FedEx Courier Tracking # _____

Sample Receipt Checklist

| | |
|-------------------------------|--|
| COC Seal Present/Intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Bottles arrive intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Sufficient volume sent: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| If Applicable | |
| VOA Zero Headspace: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| RAD Screen <0.5 mR/hr: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

| | | | | | | | |
|---|---------------------|-------------------|---|--|---------------------|-----------------------------|--|
| Relinquished by: (Signature) <i>[Signature]</i> | Date: 9/6/22 | Time: 0624 | Received by: (Signature) <i>[Signature]</i> | Trip Blank Received: 1 Yes/No <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes | Temp: 1.1 °C | Bottles Received: 35 | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: 9/6/22 | Time: 1800 | Received by: (Signature) <i>[Signature]</i> | Date: 09/07/22 | Time: 0800 | Hold: | Condition: NCF / OK |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Pinyon Environmental

Sample Delivery Group: L1534502
Samples Received: 09/10/2022
Project Number: 722152201.002
Description: Nammo TTU Groundwater Monitoring

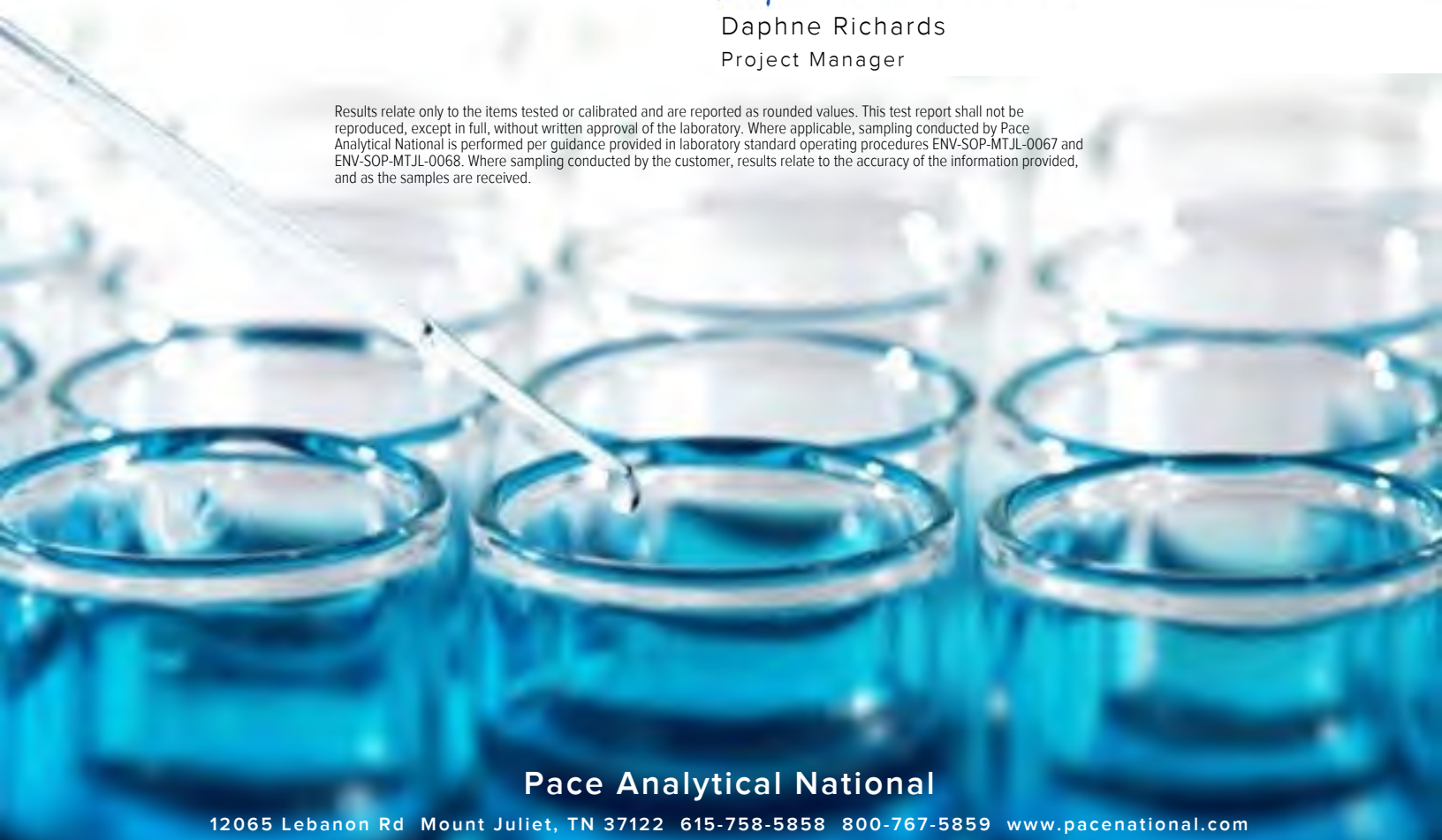
Report To: Jeremy Musson
4815 E. Carefree Highway
#108-274
Cave Creek, AZ 85331

Entire Report Reviewed By:



Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

TTU-EXT-1-69-20220908 L1534502-01 GW

Collected by Ben Boesen Collected date/time 09/08/22 09:10 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 1000 | 09/22/22 22:56 | 09/22/22 22:56 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1926858 | 1 | 09/15/22 22:05 | 09/15/22 22:05 | AV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 19:31 | 09/15/22 19:31 | ACG | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

TTU-EXT-2-74-20220908 L1534502-02 GW

Collected by Ben Boesen Collected date/time 09/08/22 08:46 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 500 | 09/22/22 02:32 | 09/22/22 02:32 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1926858 | 1 | 09/15/22 22:24 | 09/15/22 22:24 | AV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 19:51 | 09/15/22 19:51 | ACG | Mt. Juliet, TN |

4 Cn

5 Sr

6 Qc

TTU-EXT-3-76-20220908 L1534502-03 GW

Collected by Ben Boesen Collected date/time 09/08/22 08:19 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 10000 | 09/22/22 03:29 | 09/22/22 03:29 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 100 | 09/13/22 21:40 | 09/13/22 21:40 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 20:11 | 09/15/22 20:11 | ACG | Mt. Juliet, TN |

7 Is

8 Gl

9 Al

10 Sc

TTU-EXT-4-77-20220908 L1534502-04 GW

Collected by Ben Boesen Collected date/time 09/08/22 07:54 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 1000 | 09/23/22 00:10 | 09/23/22 00:10 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1926858 | 20 | 09/15/22 22:43 | 09/15/22 22:43 | AV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 20:31 | 09/15/22 20:31 | ACG | Mt. Juliet, TN |

TTU-EXT-5-80-20220908 L1534502-05 GW

Collected by Ben Boesen Collected date/time 09/08/22 07:19 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 1 | 09/22/22 05:23 | 09/22/22 05:23 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 17:50 | 09/13/22 17:50 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 20:51 | 09/15/22 20:51 | ACG | Mt. Juliet, TN |

DUP-02 L1534502-06 GW

Collected by Ben Boesen Collected date/time 09/08/22 07:19 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 1 | 09/22/22 05:51 | 09/22/22 05:51 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 18:11 | 09/13/22 18:11 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 21:11 | 09/15/22 21:11 | ACG | Mt. Juliet, TN |

SAMPLE SUMMARY

TTU-3-108-20220909 L1534502-07 GW

Collected by Ben Boesen
 Collected date/time 09/09/22 11:58
 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1931315 | 1 | 09/22/22 06:20 | 09/22/22 06:20 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 18:32 | 09/13/22 18:32 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 21:31 | 09/15/22 21:31 | ACG | Mt. Juliet, TN |



TTU-4-57-20220909 L1534502-08 GW

Collected by Ben Boesen
 Collected date/time 09/09/22 10:32
 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1931315 | 1 | 09/22/22 06:48 | 09/22/22 06:48 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 18:53 | 09/13/22 18:53 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 21:51 | 09/15/22 21:51 | ACG | Mt. Juliet, TN |

TTU-5-110-20220908 L1534502-09 GW

Collected by Ben Boesen
 Collected date/time 09/09/22 12:46
 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1931315 | 1 | 09/22/22 07:17 | 09/22/22 07:17 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 19:13 | 09/13/22 19:13 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 22:11 | 09/15/22 22:11 | ACG | Mt. Juliet, TN |

TTU-6-143-20220909 L1534502-10 GW

Collected by Ben Boesen
 Collected date/time 09/09/22 11:35
 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 5 | 09/22/22 07:45 | 09/22/22 07:45 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 19:34 | 09/13/22 19:34 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 22:31 | 09/15/22 22:31 | ACG | Mt. Juliet, TN |

TTU-7-345-20220909 L1534502-11 GW

Collected by Ben Boesen
 Collected date/time 09/09/22 11:00
 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1931315 | 1 | 09/22/22 09:10 | 09/22/22 09:10 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 19:55 | 09/13/22 19:55 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 22:51 | 09/15/22 22:51 | ACG | Mt. Juliet, TN |

TTU-8-164-20220909 L1534502-12 GW

Collected by Ben Boesen
 Collected date/time 09/09/22 10:00
 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1931315 | 1 | 09/22/22 10:35 | 09/22/22 10:35 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 20:16 | 09/13/22 20:16 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 23:11 | 09/15/22 23:11 | ACG | Mt. Juliet, TN |

SAMPLE SUMMARY

DUP-03 L1534502-13 GW

Collected by Ben Boesen Collected date/time 09/09/22 10:00 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1931315 | 1 | 09/22/22 11:04 | 09/22/22 11:04 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925636 | 1 | 09/13/22 20:37 | 09/13/22 20:37 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 23:31 | 09/15/22 23:31 | ACG | Mt. Juliet, TN |



TTU-9A-61-20220908 L1534502-14 GW

Collected by Ben Boesen Collected date/time 09/08/22 11:45 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1931315 | 1 | 09/22/22 11:32 | 09/22/22 11:32 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 13:39 | 09/14/22 13:39 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/15/22 23:51 | 09/15/22 23:51 | ACG | Mt. Juliet, TN |

TTU-10-165-20220909 L1534502-15 GW

Collected by Ben Boesen Collected date/time 09/09/22 12:46 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 1 | 09/22/22 12:01 | 09/22/22 12:01 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 14:01 | 09/14/22 14:01 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/16/22 00:11 | 09/16/22 00:11 | ACG | Mt. Juliet, TN |

TTU-12-82-20220909 L1534502-16 GW

Collected by Ben Boesen Collected date/time 09/09/22 08:10 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 5000 | 09/22/22 12:57 | 09/22/22 12:57 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 10 | 09/14/22 16:56 | 09/14/22 16:56 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/16/22 00:31 | 09/16/22 00:31 | ACG | Mt. Juliet, TN |

TTU-13-51-20220908 L1534502-17 GW

Collected by Ben Boesen Collected date/time 09/08/22 12:10 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 500 | 09/22/22 13:26 | 09/22/22 13:26 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 14:22 | 09/14/22 14:22 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/16/22 00:51 | 09/16/22 00:51 | ACG | Mt. Juliet, TN |

TTU-14-64-20220909 L1534502-18 GW

Collected by Ben Boesen Collected date/time 09/09/22 07:45 Received date/time 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 5000 | 09/22/22 13:54 | 09/22/22 13:54 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 14:44 | 09/14/22 14:44 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1928174 | 25 | 09/18/22 21:51 | 09/18/22 21:51 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/16/22 01:11 | 09/16/22 01:11 | ACG | Mt. Juliet, TN |

SAMPLE SUMMARY

TTU-15-75-20220908 L1534502-19 GW

Collected by: Ben Boesen
 Collected date/time: 09/08/22 10:19
 Received date/time: 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 100 | 09/22/22 14:23 | 09/22/22 14:23 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 15:06 | 09/14/22 15:06 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1928174 | 1 | 09/18/22 21:10 | 09/18/22 21:10 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1930402 | 1 | 09/22/22 17:34 | 09/22/22 17:34 | ADM | Mt. Juliet, TN |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

TTU-16-80-20220908 L1534502-20 GW

Collected by: Ben Boesen
 Collected date/time: 09/08/22 11:08
 Received date/time: 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1929502 | 10000 | 09/22/22 16:45 | 09/22/22 16:45 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 100 | 09/14/22 17:17 | 09/14/22 17:17 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1930191 | 50 | 09/22/22 17:14 | 09/22/22 17:14 | ADM | Mt. Juliet, TN |

TTU-17-80-20220908 L1534502-21 GW

Collected by: Ben Boesen
 Collected date/time: 09/08/22 09:47
 Received date/time: 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1930280 | 1 | 09/26/22 17:20 | 09/26/22 17:20 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 15:28 | 09/14/22 15:28 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1928174 | 1 | 09/18/22 21:30 | 09/18/22 21:30 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1926871 | 1 | 09/16/22 01:51 | 09/16/22 01:51 | ACG | Mt. Juliet, TN |

PF-2-400-20220909 L1534502-22 GW

Collected by: Ben Boesen
 Collected date/time: 09/09/22 13:30
 Received date/time: 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 15:50 | 09/14/22 15:50 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1928694 | 1 | 09/19/22 17:40 | 09/19/22 17:40 | ADM | Mt. Juliet, TN |

TRIP BLANK L1534502-23 GW

Collected by: Ben Boesen
 Collected date/time: 09/08/22 00:00
 Received date/time: 09/10/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1925641 | 1 | 09/14/22 11:29 | 09/14/22 11:29 | DWR | Mt. Juliet, TN |

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Sample Delivery Group (SDG) Narrative

No extra volume received to perform Matrix Spike samples.

| <u>Lab Sample ID</u> | <u>Project Sample ID</u> | <u>Method</u> |
|-----------------------------|---------------------------------------|---------------|
| L1534502-01 | TTU-EXT-1-69-20220908 | 8260B |
| L1534502-02 | TTU-EXT-2-74-20220908 | 8260B |
| L1534502-04 | TTU-EXT-4-77-20220908 | 8260B |
| L1534502-20 | TTU-16-80-20220908 | 8260B-SIM |



Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 86300 | | 300 | 4000 | 1000 | 09/22/2022 22:56 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/15/2022 22:05 | WG1926858 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/15/2022 22:05 | WG1926858 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/15/2022 22:05 | WG1926858 |
| Benzene | 0.104 | J | 0.0941 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Chloroform | 0.322 | J | 0.111 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/15/2022 22:05 | WG1926858 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1-Dichloroethane | 0.194 | J | 0.100 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2-Dichloroethane | 0.0867 | J | 0.0819 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1-Dichloroethene | 35.0 | | 0.188 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/15/2022 22:05 | WG1926858 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/15/2022 22:05 | WG1926858 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/15/2022 22:05 | WG1926858 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/15/2022 22:05 | WG1926858 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,1,2-Trichloroethane | 0.292 | U | 0.158 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Trichloroethene | 75.1 | | 0.190 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/15/2022 22:05 | WG1926858 |
| (S) Toluene-d8 | 114 | | | 80.0-120 | | 09/15/2022 22:05 | WG1926858 |
| (S) 4-Bromofluorobenzene | 106 | | | 77.0-126 | | 09/15/2022 22:05 | WG1926858 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 | | 09/15/2022 22:05 | WG1926858 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 68.2 | | 0.597 | 3.00 | 1 | 09/15/2022 19:31 | WG1926871 |
| (S) Toluene-d8 | 100 | | | 77.0-127 | | 09/15/2022 19:31 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 19300 | | 150 | 2000 | 500 | 09/22/2022 02:32 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/15/2022 22:24 | WG1926858 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/15/2022 22:24 | WG1926858 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/15/2022 22:24 | WG1926858 |
| Benzene | 0.104 | J | 0.0941 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Chloroform | 0.136 | J | 0.111 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/15/2022 22:24 | WG1926858 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1-Dichloroethene | 12.1 | | 0.188 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| cis-1,2-Dichloroethene | 0.152 | J | 0.126 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/15/2022 22:24 | WG1926858 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/15/2022 22:24 | WG1926858 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |



Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/15/2022 22:24 | WG1926858 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/15/2022 22:24 | WG1926858 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Trichloroethene | 68.1 | | 0.190 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/15/2022 22:24 | WG1926858 |
| (S) Toluene-d8 | 117 | | | 80.0-120 | | 09/15/2022 22:24 | WG1926858 |
| (S) 4-Bromofluorobenzene | 102 | | | 77.0-126 | | 09/15/2022 22:24 | WG1926858 |
| (S) 1,2-Dichloroethane-d4 | 106 | | | 70.0-130 | | 09/15/2022 22:24 | WG1926858 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 74.9 | | 0.597 | 3.00 | 1 | 09/15/2022 19:51 | WG1926871 |
| (S) Toluene-d8 | 101 | | | 77.0-127 | | 09/15/2022 19:51 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 406000 | | 3000 | 40000 | 10000 | 09/22/2022 03:29 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1130 | 5000 | 100 | 09/13/2022 21:40 | WG1925636 |
| Acrolein | U | | 254 | 5000 | 100 | 09/13/2022 21:40 | WG1925636 |
| Acrylonitrile | U | | 67.1 | 1000 | 100 | 09/13/2022 21:40 | WG1925636 |
| Benzene | 13.3 | J | 9.41 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Bromobenzene | U | | 11.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Bromodichloromethane | U | | 13.6 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Bromoform | U | | 12.9 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Bromomethane | U | | 60.5 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,3-Butadiene | U | | 29.9 | 200 | 100 | 09/13/2022 21:40 | WG1925636 |
| n-Butylbenzene | U | | 15.7 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| sec-Butylbenzene | U | | 12.5 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| tert-Butylbenzene | U | J4 | 12.7 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Carbon tetrachloride | U | | 12.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Carbon disulfide | U | | 9.62 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Chlorobenzene | U | | 11.6 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Chlorodibromomethane | U | | 14.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Chloroethane | U | | 19.2 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| Chloroform | 12.5 | J | 11.1 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| Chloromethane | U | | 96.0 | 250 | 100 | 09/13/2022 21:40 | WG1925636 |
| Cyclohexane | U | | 18.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 2-Chlorotoluene | U | | 10.6 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 4-Chlorotoluene | U | | 11.4 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 27.6 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2-Dibromoethane | U | | 12.6 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Dibromomethane | U | | 12.2 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 10.7 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 11.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 12.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Dichlorodifluoromethane | U | | 37.4 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1-Dichloroethane | U | | 10.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2-Dichloroethane | U | | 8.19 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1-Dichloroethene | 1030 | | 18.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 12.6 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 14.9 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2-Dichloropropane | U | | 14.9 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1-Dichloropropene | U | | 14.2 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,3-Dichloropropane | U | | 11.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 11.1 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 11.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 2,2-Dichloropropane | U | | 16.1 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Dicyclopentadiene | U | | 25.3 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Di-isopropyl ether | U | | 10.5 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Ethylbenzene | U | | 13.7 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 4-Ethyltoluene | U | | 20.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 33.7 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| n-Hexane | U | | 74.9 | 1000 | 100 | 09/13/2022 21:40 | WG1925636 |
| Isopropylbenzene | U | | 10.5 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| p-Isopropyltoluene | U | | 12.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 2-Butanone (MEK) | U | J3 | 119 | 1000 | 100 | 09/13/2022 21:40 | WG1925636 |
| Methyl Cyclohexane | U | | 66.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 43.0 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 47.8 | 1000 | 100 | 09/13/2022 21:40 | WG1925636 |
| Methyl tert-butyl ether | U | | 10.1 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Naphthalene | U | | 100 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| Propene | U | | 93.6 | 250 | 100 | 09/13/2022 21:40 | WG1925636 |
| n-Propylbenzene | U | | 9.93 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Styrene | U | | 11.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 14.7 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 13.3 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 18.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Tetrachloroethene | U | | 30.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Toluene | U | | 27.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 23.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 48.1 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 14.9 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 15.8 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Trichloroethene | 7220 | | 19.0 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Trichlorofluoromethane | U | | 16.0 | 500 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 23.7 | 250 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 32.2 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 10.4 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 10.4 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Vinyl chloride | U | | 23.4 | 100 | 100 | 09/13/2022 21:40 | WG1925636 |
| Xylenes, Total | U | | 17.4 | 300 | 100 | 09/13/2022 21:40 | WG1925636 |
| (S) Toluene-d8 | 107 | | | 80.0-120 | | 09/13/2022 21:40 | WG1925636 |
| (S) 4-Bromofluorobenzene | 106 | | | 77.0-126 | | 09/13/2022 21:40 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/13/2022 21:40 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 741 | | 0.597 | 3.00 | 1 | 09/15/2022 20:11 | WG1926871 |
| (S) Toluene-d8 | 101 | | | 77.0-127 | | 09/15/2022 20:11 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 88200 | | 300 | 4000 | 1000 | 09/23/2022 00:10 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 226 | 1000 | 20 | 09/15/2022 22:43 | WG1926858 |
| Acrolein | U | | 50.8 | 1000 | 20 | 09/15/2022 22:43 | WG1926858 |
| Acrylonitrile | U | | 13.4 | 200 | 20 | 09/15/2022 22:43 | WG1926858 |
| Benzene | U | | 1.88 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Bromobenzene | U | | 2.36 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Bromodichloromethane | U | | 2.72 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Bromoform | U | | 2.58 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Bromomethane | U | | 12.1 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,3-Butadiene | U | | 5.98 | 40.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| n-Butylbenzene | U | | 3.14 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| sec-Butylbenzene | U | | 2.50 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| tert-Butylbenzene | U | | 2.54 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Carbon tetrachloride | U | | 2.56 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Carbon disulfide | U | | 1.92 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Chlorobenzene | U | | 2.32 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Chlorodibromomethane | U | | 2.80 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Chloroethane | U | | 3.84 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| Chloroform | U | | 2.22 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| Chloromethane | U | | 19.2 | 50.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Cyclohexane | U | | 3.76 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 2-Chlorotoluene | U | | 2.12 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 4-Chlorotoluene | U | | 2.28 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2-Dibromo-3-Chloropropane | U | | 5.52 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2-Dibromoethane | U | | 2.52 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Dibromomethane | U | | 2.44 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2-Dichlorobenzene | U | | 2.14 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,3-Dichlorobenzene | U | | 2.20 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,4-Dichlorobenzene | U | | 2.40 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Dichlorodifluoromethane | U | | 7.48 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1-Dichloroethane | U | | 2.00 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2-Dichloroethane | U | | 1.64 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1-Dichloroethene | 92.1 | | 3.76 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| cis-1,2-Dichloroethene | 2.56 | J | 2.52 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| trans-1,2-Dichloroethene | U | | 2.98 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2-Dichloropropane | U | | 2.98 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1-Dichloropropene | U | | 2.84 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,3-Dichloropropane | U | | 2.20 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| cis-1,3-Dichloropropene | U | | 2.22 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| trans-1,3-Dichloropropene | U | | 2.36 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 2,2-Dichloropropane | U | | 3.22 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Dicyclopentadiene | U | | 5.06 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Di-isopropyl ether | U | | 2.10 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Ethylbenzene | U | | 2.74 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 4-Ethyltoluene | U | | 4.16 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Hexachloro-1,3-butadiene | U | | 6.74 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| n-Hexane | U | | 15.0 | 200 | 20 | 09/15/2022 22:43 | WG1926858 |
| Isopropylbenzene | U | | 2.10 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| p-Isopropyltoluene | U | | 2.40 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 2-Butanone (MEK) | U | | 23.8 | 200 | 20 | 09/15/2022 22:43 | WG1926858 |
| Methyl Cyclohexane | U | | 13.2 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 8.60 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| 4-Methyl-2-pentanone (MIBK) | U | | 9.56 | 200 | 20 | 09/15/2022 22:43 | WG1926858 |
| Methyl tert-butyl ether | U | | 2.02 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Naphthalene | U | | 20.0 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| Propene | U | | 18.7 | 50.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| n-Propylbenzene | U | | 1.99 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Styrene | U | | 2.36 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1,1,2-Tetrachloroethane | U | | 2.94 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1,2,2-Tetrachloroethane | U | | 2.66 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1,2-Trichlorotrifluoroethane | U | | 3.60 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Tetrachloroethene | U | | 6.00 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Toluene | U | | 5.56 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2,3-Trichlorobenzene | U | | 4.60 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2,4-Trichlorobenzene | U | | 9.62 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1,1-Trichloroethane | U | | 2.98 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,1,2-Trichloroethane | U | | 3.16 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Trichloroethene | 698 | | 3.80 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Trichlorofluoromethane | U | | 3.20 | 100 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2,3-Trichloropropane | U | | 4.74 | 50.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2,4-Trimethylbenzene | U | | 6.44 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,2,3-Trimethylbenzene | U | | 2.08 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| 1,3,5-Trimethylbenzene | U | | 2.08 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Vinyl chloride | U | | 4.68 | 20.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| Xylenes, Total | U | | 3.48 | 60.0 | 20 | 09/15/2022 22:43 | WG1926858 |
| (S) Toluene-d8 | 116 | | | 80.0-120 | | 09/15/2022 22:43 | WG1926858 |
| (S) 4-Bromofluorobenzene | 104 | | | 77.0-126 | | 09/15/2022 22:43 | WG1926858 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/15/2022 22:43 | WG1926858 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 41.4 | | 0.597 | 3.00 | 1 | 09/15/2022 20:31 | WG1926871 |
| (S) Toluene-d8 | 101 | | | 77.0-127 | | 09/15/2022 20:31 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | U | | 0.300 | 4.00 | 1 | 09/22/2022 05:23 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 17:50 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 17:50 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 17:50 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| tert-Butylbenzene | U | J4 | 0.127 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 17:50 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| cis-1,2-Dichloroethene | 0.160 | J | 0.126 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 17:50 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 2-Butanone (MEK) | U | J3 | 1.19 | 10.0 | 1 | 09/13/2022 17:50 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 17:50 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 17:50 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Trichloroethene | 4.96 | | 0.190 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 17:50 | WG1925636 |
| (S) Toluene-d8 | 98.8 | | | 80.0-120 | | 09/13/2022 17:50 | WG1925636 |
| (S) 4-Bromofluorobenzene | 104 | | | 77.0-126 | | 09/13/2022 17:50 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 | | 09/13/2022 17:50 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 2.16 | <u>J</u> | 0.597 | 3.00 | 1 | 09/15/2022 20:51 | WG1926871 |
| (S) Toluene-d8 | 99.0 | | | 77.0-127 | | 09/15/2022 20:51 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | U | | 0.300 | 4.00 | 1 | 09/22/2022 05:51 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 18:11 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 18:11 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 18:11 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| tert-Butylbenzene | U | J4 | 0.127 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 18:11 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| cis-1,2-Dichloroethene | 0.209 | J | 0.126 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 18:11 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 2-Butanone (MEK) | U | J3 | 1.19 | 10.0 | 1 | 09/13/2022 18:11 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 18:11 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 18:11 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Trichloroethene | 5.06 | | 0.190 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 18:11 | WG1925636 |
| (S) Toluene-d8 | 100 | | | 80.0-120 | | 09/13/2022 18:11 | WG1925636 |
| (S) 4-Bromofluorobenzene | 106 | | | 77.0-126 | | 09/13/2022 18:11 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 97.6 | | | 70.0-130 | | 09/13/2022 18:11 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 21:11 | WG1926871 |
| (S) Toluene-d8 | 99.8 | | | 77.0-127 | | 09/15/2022 21:11 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 54.8 | | 0.300 | 4.00 | 1 | 09/22/2022 06:20 | WG1931315 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 18:32 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 18:32 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 18:32 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| tert-Butylbenzene | U | J4 | 0.127 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 18:32 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 18:32 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 2-Butanone (MEK) | U | J3 | 1.19 | 10.0 | 1 | 09/13/2022 18:32 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 18:32 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 18:32 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 18:32 | WG1925636 |
| (S) Toluene-d8 | 104 | | | 80.0-120 | | 09/13/2022 18:32 | WG1925636 |
| (S) 4-Bromofluorobenzene | 104 | | | 77.0-126 | | 09/13/2022 18:32 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 100 | | | 70.0-130 | | 09/13/2022 18:32 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 21:31 | WG1926871 |
| (S) Toluene-d8 | 100 | | | 77.0-127 | | 09/15/2022 21:31 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 2.57 | <u>J</u> | 0.300 | 4.00 | 1 | 09/22/2022 06:48 | WG1931315 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 18:53 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 18:53 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 18:53 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| tert-Butylbenzene | U | <u>J4</u> | 0.127 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 18:53 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 18:53 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 2-Butanone (MEK) | U | <u>J3</u> | 1.19 | 10.0 | 1 | 09/13/2022 18:53 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |



Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 18:53 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 18:53 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 18:53 | WG1925636 |
| (S) Toluene-d8 | 104 | | | 80.0-120 | | 09/13/2022 18:53 | WG1925636 |
| (S) 4-Bromofluorobenzene | 112 | | | 77.0-126 | | 09/13/2022 18:53 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 | | 09/13/2022 18:53 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 21:51 | WG1926871 |
| (S) Toluene-d8 | 98.7 | | | 77.0-127 | | 09/15/2022 21:51 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|-----------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 1.25 | J | 0.300 | 4.00 | 1 | 09/22/2022 07:17 | WG1931315 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|-----------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 19:13 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 19:13 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 19:13 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| tert-Butylbenzene | U | J4 | 0.127 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 19:13 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 19:13 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 2-Butanone (MEK) | U | J3 | 1.19 | 10.0 | 1 | 09/13/2022 19:13 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 19:13 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 19:13 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 19:13 | WG1925636 |
| (S) Toluene-d8 | 99.9 | | | 80.0-120 | | 09/13/2022 19:13 | WG1925636 |
| (S) 4-Bromofluorobenzene | 101 | | | 77.0-126 | | 09/13/2022 19:13 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 | | 09/13/2022 19:13 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 22:11 | WG1926871 |
| (S) Toluene-d8 | 99.7 | | | 77.0-127 | | 09/15/2022 22:11 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 42.1 | | 1.50 | 20.0 | 5 | 09/22/2022 07:45 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 19:34 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 19:34 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 19:34 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| tert-Butylbenzene | U | J4 | 0.127 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Chloromethane | U | J3 | 0.960 | 2.50 | 1 | 09/13/2022 19:34 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Dicyclopentadiene | U | J6 | 0.253 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 19:34 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/13/2022 19:34 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 19:34 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 19:34 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Trichlorofluoromethane | U | <u>J3</u> | 0.160 | 5.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 19:34 | WG1925636 |
| (S) Toluene-d8 | 103 | | | 80.0-120 | | 09/13/2022 19:34 | WG1925636 |
| (S) 4-Bromofluorobenzene | 108 | | | 77.0-126 | | 09/13/2022 19:34 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/13/2022 19:34 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | <u>J3</u> | 0.597 | 3.00 | 1 | 09/15/2022 22:31 | WG1926871 |
| (S) Toluene-d8 | 99.2 | | | 77.0-127 | | 09/15/2022 22:31 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 1.04 | <u>J</u> | 0.300 | 4.00 | 1 | 09/22/2022 09:10 | WG1931315 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 19:55 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 19:55 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 19:55 | WG1925636 |
| Benzene | 0.0960 | <u>J</u> | 0.0941 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| tert-Butylbenzene | U | <u>J4</u> | 0.127 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 19:55 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 19:55 | WG1925636 |
| Isopropylbenzene | 0.147 | <u>J</u> | 0.105 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 2-Butanone (MEK) | U | <u>J3</u> | 1.19 | 10.0 | 1 | 09/13/2022 19:55 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 19:55 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Propene | 4.11 | | 0.936 | 2.50 | 1 | 09/13/2022 19:55 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Toluene | 0.986 | U | 0.278 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| Xylenes, Total | 0.262 | U | 0.174 | 3.00 | 1 | 09/13/2022 19:55 | WG1925636 |
| (S) Toluene-d8 | 102 | | | 80.0-120 | | 09/13/2022 19:55 | WG1925636 |
| (S) 4-Bromofluorobenzene | 105 | | | 77.0-126 | | 09/13/2022 19:55 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/13/2022 19:55 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 22:51 | WG1926871 |
| (S) Toluene-d8 | 99.2 | | | 77.0-127 | | 09/15/2022 22:51 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | U | | 0.300 | 4.00 | 1 | 09/22/2022 10:35 | WG1931315 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 20:16 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 20:16 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 20:16 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| tert-Butylbenzene | U | J4 | 0.127 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 20:16 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 20:16 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 2-Butanone (MEK) | U | J3 | 1.19 | 10.0 | 1 | 09/13/2022 20:16 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |



Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 20:16 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 20:16 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 20:16 | WG1925636 |
| (S) Toluene-d8 | 104 | | | 80.0-120 | | 09/13/2022 20:16 | WG1925636 |
| (S) 4-Bromofluorobenzene | 106 | | | 77.0-126 | | 09/13/2022 20:16 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 98.9 | | | 70.0-130 | | 09/13/2022 20:16 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 23:11 | WG1926871 |
| (S) Toluene-d8 | 99.1 | | | 77.0-127 | | 09/15/2022 23:11 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|-----------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 0.614 | J | 0.300 | 4.00 | 1 | 09/22/2022 11:04 | WG1931315 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|-----------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/13/2022 20:37 | WG1925636 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/13/2022 20:37 | WG1925636 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/13/2022 20:37 | WG1925636 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| tert-Butylbenzene | U | J4 | 0.127 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/13/2022 20:37 | WG1925636 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/13/2022 20:37 | WG1925636 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 2-Butanone (MEK) | U | J3 | 1.19 | 10.0 | 1 | 09/13/2022 20:37 | WG1925636 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/13/2022 20:37 | WG1925636 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/13/2022 20:37 | WG1925636 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/13/2022 20:37 | WG1925636 |
| (S) Toluene-d8 | 99.6 | | | 80.0-120 | | 09/13/2022 20:37 | WG1925636 |
| (S) 4-Bromofluorobenzene | 101 | | | 77.0-126 | | 09/13/2022 20:37 | WG1925636 |
| (S) 1,2-Dichloroethane-d4 | 98.3 | | | 70.0-130 | | 09/13/2022 20:37 | WG1925636 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 23:31 | WG1926871 |
| (S) Toluene-d8 | 99.2 | | | 77.0-127 | | 09/15/2022 23:31 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 6.57 | | 0.300 | 4.00 | 1 | 09/22/2022 11:32 | WG1931315 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 13:39 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 13:39 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 13:39 | WG1925641 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Carbon disulfide | 0.103 | J | 0.0962 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/14/2022 13:39 | WG1925641 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 0.118 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 13:39 | WG1925641 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 13:39 | WG1925641 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |



Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Methylene Chloride | 2.82 | U | 0.430 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 13:39 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 13:39 | WG1925641 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/14/2022 13:39 | WG1925641 |
| (S) Toluene-d8 | 114 | | | 80.0-120 | | 09/14/2022 13:39 | WG1925641 |
| (S) 4-Bromofluorobenzene | 106 | | | 77.0-126 | | 09/14/2022 13:39 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/14/2022 13:39 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/15/2022 23:51 | WG1926871 |
| (S) Toluene-d8 | 99.0 | | | 77.0-127 | | 09/15/2022 23:51 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 37.0 | | 0.300 | 4.00 | 1 | 09/22/2022 12:01 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 14:01 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 14:01 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 14:01 | WG1925641 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/14/2022 14:01 | WG1925641 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 0.118 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 14:01 | WG1925641 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 14:01 | WG1925641 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 14:01 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 14:01 | WG1925641 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/14/2022 14:01 | WG1925641 |
| (S) Toluene-d8 | 111 | | | 80.0-120 | | 09/14/2022 14:01 | WG1925641 |
| (S) 4-Bromofluorobenzene | 97.8 | | | 77.0-126 | | 09/14/2022 14:01 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 104 | | | 70.0-130 | | 09/14/2022 14:01 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | | 0.597 | 3.00 | 1 | 09/16/2022 00:11 | WG1926871 |
| (S) Toluene-d8 | 98.1 | | | 77.0-127 | | 09/16/2022 00:11 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 132000 | | 1500 | 20000 | 5000 | 09/22/2022 12:57 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 113 | 500 | 10 | 09/14/2022 16:56 | WG1925641 |
| Acrolein | U | | 25.4 | 500 | 10 | 09/14/2022 16:56 | WG1925641 |
| Acrylonitrile | U | | 6.71 | 100 | 10 | 09/14/2022 16:56 | WG1925641 |
| Benzene | U | | 0.941 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Bromobenzene | U | | 1.18 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Bromodichloromethane | U | | 1.36 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Bromoform | U | | 1.29 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Bromomethane | U | | 6.05 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,3-Butadiene | U | | 2.99 | 20.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| n-Butylbenzene | U | | 1.57 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| sec-Butylbenzene | U | | 1.25 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| tert-Butylbenzene | U | | 1.27 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Carbon tetrachloride | U | | 1.28 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Carbon disulfide | U | | 0.962 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Chlorobenzene | U | | 1.16 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Chlorodibromomethane | U | | 1.40 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Chloroethane | U | | 1.92 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Chloroform | U | | 1.11 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Chloromethane | U | | 9.60 | 25.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Cyclohexane | U | | 1.88 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 2-Chlorotoluene | U | | 1.06 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 4-Chlorotoluene | U | | 1.14 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 2.76 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2-Dibromoethane | U | | 1.26 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Dibromomethane | U | | 1.22 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 1.07 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 1.10 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 1.20 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Dichlorodifluoromethane | U | | 3.74 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1-Dichloroethane | U | | 1.00 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.819 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1-Dichloroethene | 73.4 | | 1.88 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| cis-1,2-Dichloroethene | U | | 1.26 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 1.49 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2-Dichloropropane | U | | 1.49 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1-Dichloropropene | U | | 1.42 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,3-Dichloropropane | U | | 1.10 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 1.11 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 1.18 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 2,2-Dichloropropane | U | | 1.61 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Dicyclopentadiene | U | | 2.53 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Di-isopropyl ether | U | | 1.05 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Ethylbenzene | U | | 1.37 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 4-Ethyltoluene | U | | 2.08 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 3.37 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| n-Hexane | U | | 7.49 | 100 | 10 | 09/14/2022 16:56 | WG1925641 |
| Isopropylbenzene | U | | 1.05 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| p-Isopropyltoluene | U | | 1.20 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 2-Butanone (MEK) | U | | 11.9 | 100 | 10 | 09/14/2022 16:56 | WG1925641 |
| Methyl Cyclohexane | U | | 6.60 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 4.30 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.78 | 100 | 10 | 09/14/2022 16:56 | WG1925641 |
| Methyl tert-butyl ether | U | | 1.01 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Naphthalene | U | | 10.0 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Propene | U | | 9.36 | 25.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| n-Propylbenzene | U | | 0.993 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Styrene | U | | 1.18 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 1.47 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 1.33 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 1.80 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Tetrachloroethene | U | | 3.00 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Toluene | U | | 2.78 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 2.30 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 4.81 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 1.49 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 1.58 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Trichloroethene | 529 | | 1.90 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Trichlorofluoromethane | U | | 1.60 | 50.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 2.37 | 25.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 3.22 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 1.04 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 1.04 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Vinyl chloride | U | | 2.34 | 10.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| Xylenes, Total | U | | 1.74 | 30.0 | 10 | 09/14/2022 16:56 | WG1925641 |
| (S) Toluene-d8 | 114 | | | 80.0-120 | | 09/14/2022 16:56 | WG1925641 |
| (S) 4-Bromofluorobenzene | 99.4 | | | 77.0-126 | | 09/14/2022 16:56 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 106 | | | 70.0-130 | | 09/14/2022 16:56 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Sample Narrative:

L1534502-16 WG1925641: Target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 119 | | 0.597 | 3.00 | 1 | 09/16/2022 00:31 | WG1926871 |
| (S) Toluene-d8 | 101 | | | 77.0-127 | | 09/16/2022 00:31 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 36900 | | 150 | 2000 | 500 | 09/22/2022 13:26 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 14:22 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 14:22 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 14:22 | WG1925641 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/14/2022 14:22 | WG1925641 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1-Dichloroethene | 3.06 | | 0.188 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 0.118 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 14:22 | WG1925641 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 14:22 | WG1925641 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Is
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 14:22 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 14:22 | WG1925641 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Trichloroethene | 7.06 | | 0.190 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/14/2022 14:22 | WG1925641 |
| (S) Toluene-d8 | 113 | | | 80.0-120 | | 09/14/2022 14:22 | WG1925641 |
| (S) 4-Bromofluorobenzene | 102 | | | 77.0-126 | | 09/14/2022 14:22 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 | | 09/14/2022 14:22 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 13.7 | | 0.597 | 3.00 | 1 | 09/16/2022 00:51 | WG1926871 |
| (S) Toluene-d8 | 98.4 | | | 77.0-127 | | 09/16/2022 00:51 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 143000 | | 1500 | 20000 | 5000 | 09/22/2022 13:54 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 14:44 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 14:44 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 14:44 | WG1925641 |
| Benzene | 2.32 | | 0.0941 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Chloroform | 2.12 | J | 0.111 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/14/2022 14:44 | WG1925641 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1-Dichloroethane | 1.29 | | 0.100 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1-Dichloroethene | 155 | | 0.188 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| cis-1,2-Dichloroethene | 2.12 | | 0.126 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 0.118 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 14:44 | WG1925641 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 14:44 | WG1925641 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 14:44 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 14:44 | WG1925641 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Tetrachloroethene | 1.44 | | 0.300 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,1,2-Trichloroethane | 2.05 | | 0.158 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Trichloroethene | 1020 | | 4.75 | 25.0 | 25 | 09/18/2022 21:51 | WG1928174 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/14/2022 14:44 | WG1925641 |
| (S) Toluene-d8 | 113 | | | 80.0-120 | | 09/14/2022 14:44 | WG1925641 |
| (S) Toluene-d8 | 96.9 | | | 80.0-120 | | 09/18/2022 21:51 | WG1928174 |
| (S) 4-Bromofluorobenzene | 103 | | | 77.0-126 | | 09/14/2022 14:44 | WG1925641 |
| (S) 4-Bromofluorobenzene | 96.5 | | | 77.0-126 | | 09/18/2022 21:51 | WG1928174 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/14/2022 14:44 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 112 | | | 70.0-130 | | 09/18/2022 21:51 | WG1928174 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 297 | | 0.597 | 3.00 | 1 | 09/16/2022 01:11 | WG1926871 |
| (S) Toluene-d8 | 100 | | | 77.0-127 | | 09/16/2022 01:11 | WG1926871 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 5510 | | 30.0 | 400 | 100 | 09/22/2022 14:23 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------------------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 15:06 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 15:06 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 15:06 | WG1925641 |
| Benzene | U | J3 | 0.0941 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Bromodichloromethane | U | J3 | 0.136 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,3-Butadiene | U | J3 | 0.299 | 2.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| tert-Butylbenzene | U | J3 | 0.127 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Carbon tetrachloride | U | J3 | 0.128 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Chloroethane | U | J3 | 0.192 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Chloroform | U | J3 | 0.111 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Chloromethane | U | J3 | 0.960 | 2.50 | 1 | 09/14/2022 15:06 | WG1925641 |
| Cyclohexane | U | J3 | 0.188 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 2-Chlorotoluene | U | J3 | 0.106 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 4-Chlorotoluene | U | J3 | 0.114 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,3-Dichlorobenzene | U | J3 | 0.110 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Dichlorodifluoromethane | U | J3 | 0.374 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1-Dichloroethane | U | J3 | 0.100 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1-Dichloroethene | 0.694 | J J3 | 0.188 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| cis-1,2-Dichloroethene | 0.937 | J J3 | 0.126 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| trans-1,2-Dichloroethene | U | J3 | 0.149 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2-Dichloropropane | U | J3 | 0.149 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1-Dichloropropene | U | J3 | 0.142 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| trans-1,3-Dichloropropene | U | J3 J4 | 0.118 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 2,2-Dichloropropane | U | J3 | 0.161 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Dicyclopentadiene | U | J3 | 0.253 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 4-Ethyltoluene | U | J3 | 0.208 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 15:06 | WG1925641 |
| Isopropylbenzene | U | J3 | 0.105 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 15:06 | WG1925641 |
| Methyl Cyclohexane | U | J3 | 0.660 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | <u>J3</u> | 0.430 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 15:06 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 15:06 | WG1925641 |
| n-Propylbenzene | U | <u>J3</u> | 0.0993 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Styrene | U | <u>J3</u> | 0.118 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | <u>J3</u> | 0.147 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | <u>J3</u> | 0.180 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Tetrachloroethene | U | <u>J3</u> | 0.300 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Toluene | U | <u>J3</u> | 0.278 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1,1-Trichloroethane | U | <u>J3</u> | 0.149 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Trichloroethene | 6.08 | | 0.190 | 1.00 | 1 | 09/18/2022 21:10 | WG1928174 |
| Trichlorofluoromethane | U | <u>J3</u> | 0.160 | 5.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | <u>J3</u> | 0.322 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | <u>J3</u> | 0.104 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Vinyl chloride | U | <u>J3</u> | 0.234 | 1.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| Xylenes, Total | U | <u>J3</u> | 0.174 | 3.00 | 1 | 09/14/2022 15:06 | WG1925641 |
| (S) Toluene-d8 | 113 | | | 80.0-120 | | 09/14/2022 15:06 | WG1925641 |
| (S) Toluene-d8 | 96.7 | | | 80.0-120 | | 09/18/2022 21:10 | WG1928174 |
| (S) 4-Bromofluorobenzene | 99.7 | | | 77.0-126 | | 09/14/2022 15:06 | WG1925641 |
| (S) 4-Bromofluorobenzene | 97.6 | | | 77.0-126 | | 09/18/2022 21:10 | WG1928174 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 | | 09/14/2022 15:06 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 111 | | | 70.0-130 | | 09/18/2022 21:10 | WG1928174 |



Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 8.21 | | 0.597 | 3.00 | 1 | 09/22/2022 17:34 | WG1930402 |
| (S) Toluene-d8 | 103 | | | 77.0-127 | | 09/22/2022 17:34 | WG1930402 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 913000 | | 3000 | 40000 | 10000 | 09/22/2022 16:45 | WG1929502 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1130 | 5000 | 100 | 09/14/2022 17:17 | WG1925641 |
| Acrolein | U | | 254 | 5000 | 100 | 09/14/2022 17:17 | WG1925641 |
| Acrylonitrile | U | | 67.1 | 1000 | 100 | 09/14/2022 17:17 | WG1925641 |
| Benzene | 30.2 | J | 9.41 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Bromobenzene | U | | 11.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Bromodichloromethane | U | | 13.6 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Bromoform | U | | 12.9 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Bromomethane | U | | 60.5 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,3-Butadiene | U | | 29.9 | 200 | 100 | 09/14/2022 17:17 | WG1925641 |
| n-Butylbenzene | U | | 15.7 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| sec-Butylbenzene | U | | 12.5 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| tert-Butylbenzene | U | | 12.7 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Carbon tetrachloride | U | | 12.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Carbon disulfide | U | | 9.62 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Chlorobenzene | U | | 11.6 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Chlorodibromomethane | U | | 14.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Chloroethane | U | | 19.2 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| Chloroform | U | | 11.1 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| Chloromethane | U | | 96.0 | 250 | 100 | 09/14/2022 17:17 | WG1925641 |
| Cyclohexane | U | | 18.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 2-Chlorotoluene | U | | 10.6 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 4-Chlorotoluene | U | | 11.4 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 27.6 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2-Dibromoethane | U | | 12.6 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Dibromomethane | U | | 12.2 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 10.7 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 11.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 12.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Dichlorodifluoromethane | U | | 37.4 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1-Dichloroethane | U | | 10.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2-Dichloroethane | U | | 8.19 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1-Dichloroethene | 478 | | 18.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| cis-1,2-Dichloroethene | U | | 12.6 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 14.9 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2-Dichloropropane | U | | 14.9 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1-Dichloropropene | U | | 14.2 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,3-Dichloropropane | U | | 11.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 11.1 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 11.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 2,2-Dichloropropane | U | | 16.1 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Dicyclopentadiene | U | | 25.3 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Di-isopropyl ether | U | | 10.5 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Ethylbenzene | U | | 13.7 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 4-Ethyltoluene | U | | 20.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 33.7 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| n-Hexane | U | | 74.9 | 1000 | 100 | 09/14/2022 17:17 | WG1925641 |
| Isopropylbenzene | U | | 10.5 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| p-Isopropyltoluene | U | | 12.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 2-Butanone (MEK) | U | | 119 | 1000 | 100 | 09/14/2022 17:17 | WG1925641 |
| Methyl Cyclohexane | U | | 66.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | 12200 | | 43.0 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 47.8 | 1000 | 100 | 09/14/2022 17:17 | WG1925641 |
| Methyl tert-butyl ether | U | | 10.1 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Naphthalene | U | | 100 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| Propene | U | | 93.6 | 250 | 100 | 09/14/2022 17:17 | WG1925641 |
| n-Propylbenzene | U | | 9.93 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Styrene | U | | 11.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 14.7 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 13.3 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 18.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Tetrachloroethene | U | | 30.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Toluene | U | | 27.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 23.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 48.1 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 14.9 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 15.8 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Trichloroethene | 9520 | | 19.0 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Trichlorofluoromethane | U | | 16.0 | 500 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 23.7 | 250 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 32.2 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 10.4 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 10.4 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Vinyl chloride | U | | 23.4 | 100 | 100 | 09/14/2022 17:17 | WG1925641 |
| Xylenes, Total | U | | 17.4 | 300 | 100 | 09/14/2022 17:17 | WG1925641 |
| (S) Toluene-d8 | 110 | | | 80.0-120 | | 09/14/2022 17:17 | WG1925641 |
| (S) 4-Bromofluorobenzene | 99.6 | | | 77.0-126 | | 09/14/2022 17:17 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 09/14/2022 17:17 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Sample Narrative:

L1534502-20 WG1925641: Target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 3820 | <u>J3</u> | 29.9 | 150 | 50 | 09/22/2022 17:14 | WG1930191 |
| (S) Toluene-d8 | 103 | | | 77.0-127 | | 09/22/2022 17:14 | WG1930191 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | U | | 0.300 | 4.00 | 1 | 09/26/2022 17:20 | WG1930280 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 15:28 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 15:28 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 15:28 | WG1925641 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/14/2022 15:28 | WG1925641 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| cis-1,2-Dichloroethene | 0.773 | J | 0.126 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 0.118 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 15:28 | WG1925641 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 15:28 | WG1925641 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 15:28 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 15:28 | WG1925641 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Styrene | U | | 0.118 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Trichloroethene | 2.10 | | 0.190 | 1.00 | 1 | 09/18/2022 21:30 | WG1928174 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/14/2022 15:28 | WG1925641 |
| (S) Toluene-d8 | 110 | | | 80.0-120 | | 09/14/2022 15:28 | WG1925641 |
| (S) Toluene-d8 | 96.4 | | | 80.0-120 | | 09/18/2022 21:30 | WG1928174 |
| (S) 4-Bromofluorobenzene | 96.6 | | | 77.0-126 | | 09/14/2022 15:28 | WG1925641 |
| (S) 4-Bromofluorobenzene | 98.6 | | | 77.0-126 | | 09/18/2022 21:30 | WG1928174 |
| (S) 1,2-Dichloroethane-d4 | 106 | | | 70.0-130 | | 09/14/2022 15:28 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 110 | | | 70.0-130 | | 09/18/2022 21:30 | WG1928174 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 242 | | 0.597 | 3.00 | 1 | 09/16/2022 01:51 | WG1926871 |
| (S) Toluene-d8 | 101 | | | 77.0-127 | | 09/16/2022 01:51 | WG1926871 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 15:50 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 15:50 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 15:50 | WG1925641 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/14/2022 15:50 | WG1925641 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 0.118 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 15:50 | WG1925641 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 15:50 | WG1925641 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 15:50 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 15:50 | WG1925641 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Styrene | U | | 0.118 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/14/2022 15:50 | WG1925641 |
| (S) Toluene-d8 | 113 | | | 80.0-120 | | 09/14/2022 15:50 | WG1925641 |
| (S) 4-Bromofluorobenzene | 99.7 | | | 77.0-126 | | 09/14/2022 15:50 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/14/2022 15:50 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | U | J3 | 0.597 | 3.00 | 1 | 09/19/2022 17:40 | WG1928694 |
| (S) Toluene-d8 | 102 | | | 77.0-127 | | 09/19/2022 17:40 | WG1928694 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|-----------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 11.3 | 50.0 | 1 | 09/14/2022 11:29 | WG1925641 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 09/14/2022 11:29 | WG1925641 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 09/14/2022 11:29 | WG1925641 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 09/14/2022 11:29 | WG1925641 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| trans-1,3-Dichloropropene | U | J4 | 0.118 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| n-Hexane | U | | 0.749 | 10.0 | 1 | 09/14/2022 11:29 | WG1925641 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 09/14/2022 11:29 | WG1925641 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 09/14/2022 11:29 | WG1925641 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Propene | U | | 0.936 | 2.50 | 1 | 09/14/2022 11:29 | WG1925641 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

TRIP BLANK

SAMPLE RESULTS - 23

Collected date/time: 09/08/22 00:00

L1534502

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Styrene | U | | 0.118 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Toluene | U | | 0.278 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 09/14/2022 11:29 | WG1925641 |
| (S) Toluene-d8 | 111 | | | 80.0-120 | | 09/14/2022 11:29 | WG1925641 |
| (S) 4-Bromofluorobenzene | 98.9 | | | 77.0-126 | | 09/14/2022 11:29 | WG1925641 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 09/14/2022 11:29 | WG1925641 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3840607-1 09/21/22 23:42

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|-------------|-----------|--------------|--------|--------|
| Perchlorate | U | | 0.300 | 4.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1534502-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1534502-02 09/22/22 02:32 • (DUP) R3840607-3 09/22/22 03:01

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|-------------|-----------------|------------|----------|---------|---------------|----------------|
| Perchlorate | 19300 | 19600 | 500 | 1.46 | | 15 |

⁷Is

⁸Gl

⁹Al

L1534502-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1534502-15 09/22/22 12:01 • (DUP) R3840607-6 09/22/22 12:29

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|-------------|-----------------|------------|----------|---------|---------------|----------------|
| Perchlorate | 37.0 | 37.1 | 1 | 0.246 | | 15 |

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3840607-2 09/22/22 00:39

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|-------------|--------------|------------|----------|-------------|---------------|
| Perchlorate | 10.0 | 9.49 | 94.9 | 90.0-110 | |

L1534502-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-10 09/22/22 07:45 • (MS) R3840607-4 09/22/22 08:13 • (MSD) R3840607-5 09/22/22 08:42

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|-------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Perchlorate | 50.0 | 42.1 | 89.1 | 88.6 | 94.1 | 93.0 | 5 | 80.0-120 | | | 0.572 | 15 |

L1534502-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-19 09/22/22 14:23 • (MS) R3840607-7 09/22/22 14:51 • (MSD) R3840607-8 09/22/22 16:16

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|-------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|--------|------------|
| Perchlorate | 1000 | 5510 | 6650 | 6660 | 114 | 115 | 100 | 80.0-120 | | | 0.0836 | 15 |

Method Blank (MB)

(MB) R3842551-1 09/26/22 13:11

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-------------|-------------------|--------------|----------------|----------------|
| Perchlorate | U | | 0.300 | 4.00 |

¹Cp

²Tc

³Ss

L1534097-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1534097-01 09/26/22 16:21 • (DUP) R3842551-3 09/26/22 16:52

| Analyte | Original Result ug/l | DUP Result ug/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|-------------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Perchlorate | U | U | 1 | 0.000 | | 15 |

⁴Cn

⁵Sr

L1536392-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1536392-04 09/27/22 04:13 • (DUP) R3842551-4 09/27/22 04:42

| Analyte | Original Result ug/l | DUP Result ug/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|-------------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Perchlorate | 2.29 | 1.67 | 1 | 0.000 | | 15 |

⁶Qc

⁷Is

⁸Gl

Laboratory Control Sample (LCS)

(LCS) R3842551-2 09/26/22 14:07

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|----------------------|--------------------|---------------|------------------|---------------|
| Perchlorate | 10.0 | 9.18 | 91.8 | 90.0-110 | |

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3840609-2 09/22/22 01:07

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|-------------|-----------|--------------|--------|--------|
| Perchlorate | U | | 0.300 | 4.00 |

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R3840609-1 09/22/22 00:39

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|-------------|--------------|------------|----------|-------------|---------------|
| Perchlorate | 10.0 | 9.49 | 94.9 | 90.0-110 | |

⁴Cn

⁵Sr

⁶Qc

L1534502-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534502-07 09/22/22 06:20 • (MS) R3840609-3 09/22/22 17:13

| Analyte | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|-------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Perchlorate | 10.0 | 54.8 | 64.2 | 93.5 | 1 | 80.0-120 | |

⁷Is

⁸Gl

L1534502-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534502-08 09/22/22 06:48 • (MS) R3840609-4 09/22/22 17:42

| Analyte | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|-------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Perchlorate | 10.0 | 2.57 | 11.7 | 91.4 | 1 | 80.0-120 | |

⁹Al

¹⁰Sc

L1534502-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534502-09 09/22/22 07:17 • (MS) R3840609-5 09/22/22 18:10

| Analyte | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|-------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Perchlorate | 10.0 | 1.25 | 10.1 | 89.0 | 1 | 80.0-120 | |

L1534502-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534502-11 09/22/22 09:10 • (MS) R3840609-6 09/22/22 18:38

| Analyte | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|-------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Perchlorate | 10.0 | 1.04 | 10.1 | 90.2 | 1 | 80.0-120 | |

L1534502-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534502-12 09/22/22 10:35 • (MS) R3840609-7 09/22/22 19:07

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|-------------|----------------------|-------------------------|-------------------|--------------|----------|------------------|---------------------|
| Perchlorate | 10.0 | U | 10.2 | 102 | 1 | 80.0-120 | |

L1534502-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534502-13 09/22/22 11:04 • (MS) R3840609-8 09/22/22 19:35

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|-------------|----------------------|-------------------------|-------------------|--------------|----------|------------------|---------------------|
| Perchlorate | 10.0 | 0.614 | 10.6 | 99.4 | 1 | 80.0-120 | |

L1534502-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534502-14 09/22/22 11:32 • (MS) R3840609-9 09/22/22 20:04

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|-------------|----------------------|-------------------------|-------------------|--------------|----------|------------------|---------------------|
| Perchlorate | 10.0 | 6.57 | 16.5 | 99.5 | 1 | 80.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3837498-3 09/13/22 11:19

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| 1,3-Butadiene | U | | 0.299 | 2.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Carbon disulfide | U | | 0.0962 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| Cyclohexane | U | | 0.188 | 1.00 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3837498-3 09/13/22 11:19

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Dicyclopentadiene | U | | 0.253 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |
| n-Hexane | U | | 0.749 | 10.0 |
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| Propene | U | | 0.936 | 2.50 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| (S) Toluene-d8 | 103 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 106 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 99.8 | | | 70.0-130 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837498-1 09/13/22 09:55 • (LCSD) R3837498-2 09/13/22 10:16

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Acetone | 25.0 | 11.9 | 13.0 | 47.6 | 52.0 | 19.0-160 | | | 8.84 | 27 |
| Acrolein | 25.0 | 25.7 | 29.5 | 103 | 118 | 30.0-160 | | | 13.8 | 26 |
| Acrylonitrile | 25.0 | 19.5 | 21.8 | 78.0 | 87.2 | 55.0-149 | | | 11.1 | 20 |
| Benzene | 5.00 | 5.35 | 5.11 | 107 | 102 | 70.0-123 | | | 4.59 | 20 |
| Bromobenzene | 5.00 | 4.89 | 5.06 | 97.8 | 101 | 73.0-121 | | | 3.42 | 20 |
| Bromodichloromethane | 5.00 | 4.12 | 4.53 | 82.4 | 90.6 | 75.0-120 | | | 9.48 | 20 |
| Bromoform | 5.00 | 4.67 | 4.85 | 93.4 | 97.0 | 68.0-132 | | | 3.78 | 20 |
| Bromomethane | 5.00 | 3.42 | 3.95 | 68.4 | 79.0 | 30.0-160 | | | 14.4 | 25 |
| 1,3-Butadiene | 5.00 | 4.81 | 4.74 | 96.2 | 94.8 | 45.0-147 | | | 1.47 | 20 |
| n-Butylbenzene | 5.00 | 5.02 | 4.68 | 100 | 93.6 | 73.0-125 | | | 7.01 | 20 |
| sec-Butylbenzene | 5.00 | 4.91 | 4.81 | 98.2 | 96.2 | 75.0-125 | | | 2.06 | 20 |
| tert-Butylbenzene | 5.00 | 3.63 | 3.62 | 72.6 | 72.4 | 76.0-124 | J4 | J4 | 0.276 | 20 |
| Carbon tetrachloride | 5.00 | 4.63 | 4.76 | 92.6 | 95.2 | 68.0-126 | | | 2.77 | 20 |
| Carbon disulfide | 5.00 | 4.44 | 4.44 | 88.8 | 88.8 | 61.0-128 | | | 0.000 | 20 |
| Chlorobenzene | 5.00 | 4.74 | 4.59 | 94.8 | 91.8 | 80.0-121 | | | 3.22 | 20 |
| Chlorodibromomethane | 5.00 | 4.29 | 4.58 | 85.8 | 91.6 | 77.0-125 | | | 6.54 | 20 |
| Chloroethane | 5.00 | 4.75 | 4.76 | 95.0 | 95.2 | 47.0-150 | | | 0.210 | 20 |
| Chloroform | 5.00 | 4.59 | 4.47 | 91.8 | 89.4 | 73.0-120 | | | 2.65 | 20 |
| Chloromethane | 5.00 | 4.60 | 5.34 | 92.0 | 107 | 41.0-142 | | | 14.9 | 20 |
| Cyclohexane | 5.00 | 4.89 | 4.68 | 97.8 | 93.6 | 71.0-124 | | | 4.39 | 20 |
| 2-Chlorotoluene | 5.00 | 4.75 | 4.65 | 95.0 | 93.0 | 76.0-123 | | | 2.13 | 20 |
| 4-Chlorotoluene | 5.00 | 4.36 | 4.14 | 87.2 | 82.8 | 75.0-122 | | | 5.18 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.07 | 4.62 | 81.4 | 92.4 | 58.0-134 | | | 12.7 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.35 | 4.31 | 87.0 | 86.2 | 80.0-122 | | | 0.924 | 20 |
| Dibromomethane | 5.00 | 4.45 | 4.48 | 89.0 | 89.6 | 80.0-120 | | | 0.672 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.81 | 4.92 | 96.2 | 98.4 | 79.0-121 | | | 2.26 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.93 | 4.88 | 98.6 | 97.6 | 79.0-120 | | | 1.02 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 5.21 | 4.84 | 104 | 96.8 | 79.0-120 | | | 7.36 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.11 | 4.86 | 102 | 97.2 | 51.0-149 | | | 5.02 | 20 |
| 1,1-Dichloroethane | 5.00 | 4.26 | 4.30 | 85.2 | 86.0 | 70.0-126 | | | 0.935 | 20 |
| 1,2-Dichloroethane | 5.00 | 4.97 | 4.82 | 99.4 | 96.4 | 70.0-128 | | | 3.06 | 20 |
| 1,1-Dichloroethene | 5.00 | 4.77 | 4.97 | 95.4 | 99.4 | 71.0-124 | | | 4.11 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.70 | 4.39 | 94.0 | 87.8 | 73.0-120 | | | 6.82 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.35 | 4.37 | 87.0 | 87.4 | 73.0-120 | | | 0.459 | 20 |
| 1,2-Dichloropropane | 5.00 | 4.47 | 4.38 | 89.4 | 87.6 | 77.0-125 | | | 2.03 | 20 |
| 1,1-Dichloropropene | 5.00 | 4.59 | 4.40 | 91.8 | 88.0 | 74.0-126 | | | 4.23 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.96 | 4.71 | 99.2 | 94.2 | 80.0-120 | | | 5.17 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.28 | 4.37 | 85.6 | 87.4 | 80.0-123 | | | 2.08 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.33 | 4.43 | 86.6 | 88.6 | 78.0-124 | | | 2.28 | 20 |
| 2,2-Dichloropropane | 5.00 | 5.13 | 4.93 | 103 | 98.6 | 58.0-130 | | | 3.98 | 20 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837498-1 09/13/22 09:55 • (LCSD) R3837498-2 09/13/22 10:16

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | 3.92 | 3.81 | 78.4 | 76.2 | 74.0-126 | | | 2.85 | 20 |
| Di-isopropyl ether | 5.00 | 5.60 | 5.46 | 112 | 109 | 58.0-138 | | | 2.53 | 20 |
| Ethylbenzene | 5.00 | 4.49 | 4.54 | 89.8 | 90.8 | 79.0-123 | | | 1.11 | 20 |
| 4-Ethyltoluene | 5.00 | 4.98 | 4.87 | 99.6 | 97.4 | 74.0-127 | | | 2.23 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 4.83 | 4.68 | 96.6 | 93.6 | 54.0-138 | | | 3.15 | 20 |
| n-Hexane | 5.00 | 4.92 | 4.39 | 98.4 | 87.8 | 57.0-133 | | | 11.4 | 20 |
| Isopropylbenzene | 5.00 | 4.51 | 4.43 | 90.2 | 88.6 | 76.0-127 | | | 1.79 | 20 |
| p-Isopropyltoluene | 5.00 | 4.69 | 4.44 | 93.8 | 88.8 | 76.0-125 | | | 5.48 | 20 |
| 2-Butanone (MEK) | 25.0 | 18.8 | 23.0 | 75.2 | 92.0 | 44.0-160 | | J3 | 20.1 | 20 |
| Methyl Cyclohexane | 5.00 | 5.07 | 4.48 | 101 | 89.6 | 68.0-126 | | | 12.4 | 20 |
| Methylene Chloride | 5.00 | 4.38 | 4.48 | 87.6 | 89.6 | 67.0-120 | | | 2.26 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 23.2 | 25.2 | 92.8 | 101 | 68.0-142 | | | 8.26 | 20 |
| Methyl tert-butyl ether | 5.00 | 5.17 | 5.09 | 103 | 102 | 68.0-125 | | | 1.56 | 20 |
| Naphthalene | 5.00 | 4.99 | 5.15 | 99.8 | 103 | 54.0-135 | | | 3.16 | 20 |
| Propene | 5.00 | 7.14 | 7.32 | 143 | 146 | 30.0-160 | | | 2.49 | 20 |
| n-Propylbenzene | 5.00 | 4.97 | 4.82 | 99.4 | 96.4 | 77.0-124 | | | 3.06 | 20 |
| Styrene | 5.00 | 4.97 | 5.02 | 99.4 | 100 | 73.0-130 | | | 1.00 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.22 | 4.16 | 84.4 | 83.2 | 75.0-125 | | | 1.43 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.76 | 4.93 | 95.2 | 98.6 | 65.0-130 | | | 3.51 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.32 | 5.05 | 106 | 101 | 69.0-132 | | | 5.21 | 20 |
| Tetrachloroethene | 5.00 | 4.26 | 4.17 | 85.2 | 83.4 | 72.0-132 | | | 2.14 | 20 |
| Toluene | 5.00 | 4.85 | 4.79 | 97.0 | 95.8 | 79.0-120 | | | 1.24 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.63 | 4.81 | 92.6 | 96.2 | 50.0-138 | | | 3.81 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.89 | 4.89 | 97.8 | 97.8 | 57.0-137 | | | 0.000 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.50 | 4.57 | 90.0 | 91.4 | 73.0-124 | | | 1.54 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.71 | 4.60 | 94.2 | 92.0 | 80.0-120 | | | 2.36 | 20 |
| Trichloroethene | 5.00 | 4.83 | 4.76 | 96.6 | 95.2 | 78.0-124 | | | 1.46 | 20 |
| Trichlorofluoromethane | 5.00 | 5.16 | 5.27 | 103 | 105 | 59.0-147 | | | 2.11 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.53 | 4.99 | 90.6 | 99.8 | 73.0-130 | | | 9.66 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.89 | 4.99 | 97.8 | 99.8 | 76.0-121 | | | 2.02 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.88 | 4.85 | 97.6 | 97.0 | 77.0-120 | | | 0.617 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.71 | 4.56 | 94.2 | 91.2 | 76.0-122 | | | 3.24 | 20 |
| Vinyl chloride | 5.00 | 4.13 | 4.23 | 82.6 | 84.6 | 67.0-131 | | | 2.39 | 20 |
| Xylenes, Total | 15.0 | 14.2 | 14.1 | 94.7 | 94.0 | 79.0-123 | | | 0.707 | 20 |
| (S) Toluene-d8 | | | | 98.7 | 99.3 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 99.9 | 105 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 96.9 | 99.3 | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1534502-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-10 09/13/22 19:34 • (MS) R3837498-4 09/13/22 22:23 • (MSD) R3837498-5 09/13/22 22:45

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone | 25.0 | U | 21.2 | 21.2 | 84.8 | 84.8 | 1 | 10.0-160 | | | 0.000 | 35 |
| Acrolein | 25.0 | U | 25.3 | 25.1 | 101 | 100 | 1 | 10.0-160 | | | 0.794 | 39 |
| Acrylonitrile | 25.0 | U | 24.9 | 24.1 | 99.6 | 96.4 | 1 | 21.0-160 | | | 3.27 | 32 |
| Benzene | 5.00 | U | 3.41 | 3.63 | 68.2 | 72.6 | 1 | 17.0-158 | | | 6.25 | 27 |
| Bromobenzene | 5.00 | U | 4.05 | 4.11 | 81.0 | 82.2 | 1 | 30.0-149 | | | 1.47 | 28 |
| Bromodichloromethane | 5.00 | U | 3.83 | 3.89 | 76.6 | 77.8 | 1 | 31.0-150 | | | 1.55 | 27 |
| Bromoform | 5.00 | U | 5.08 | 5.50 | 102 | 110 | 1 | 29.0-150 | | | 7.94 | 29 |
| Bromomethane | 5.00 | U | 1.88 | 2.15 | 37.6 | 43.0 | 1 | 10.0-160 | | | 13.4 | 38 |
| 1,3-Butadiene | 5.00 | U | 2.35 | 2.28 | 47.0 | 45.6 | 1 | 10.0-160 | | | 3.02 | 22 |
| n-Butylbenzene | 5.00 | U | 3.25 | 3.33 | 65.0 | 66.6 | 1 | 31.0-150 | | | 2.43 | 30 |
| sec-Butylbenzene | 5.00 | U | 3.10 | 3.28 | 62.0 | 65.6 | 1 | 33.0-155 | | | 5.64 | 29 |
| tert-Butylbenzene | 5.00 | U | 2.47 | 2.59 | 49.4 | 51.8 | 1 | 34.0-153 | | | 4.74 | 28 |
| Carbon tetrachloride | 5.00 | U | 3.27 | 3.41 | 65.4 | 68.2 | 1 | 23.0-159 | | | 4.19 | 28 |
| Carbon disulfide | 5.00 | U | 1.50 | 1.51 | 30.0 | 30.2 | 1 | 10.0-156 | | | 0.664 | 28 |
| Chlorobenzene | 5.00 | U | 3.70 | 3.83 | 74.0 | 76.6 | 1 | 33.0-152 | | | 3.45 | 27 |
| Chlorodibromomethane | 5.00 | U | 4.07 | 4.44 | 81.4 | 88.8 | 1 | 37.0-149 | | | 8.70 | 27 |
| Chloroethane | 5.00 | U | 2.73 | 2.86 | 54.6 | 57.2 | 1 | 10.0-160 | | | 4.65 | 30 |
| Chloroform | 5.00 | U | 3.46 | 3.57 | 69.2 | 71.4 | 1 | 29.0-154 | | | 3.13 | 28 |
| Chloromethane | 5.00 | U | 1.77 | 2.68 | 35.4 | 53.6 | 1 | 10.0-160 | | J3 | 40.9 | 29 |
| Cyclohexane | 5.00 | U | 2.32 | 2.48 | 46.4 | 49.6 | 1 | 19.0-160 | | | 6.67 | 23 |
| 2-Chlorotoluene | 5.00 | U | 3.25 | 3.47 | 65.0 | 69.4 | 1 | 32.0-153 | | | 6.55 | 28 |
| 4-Chlorotoluene | 5.00 | U | 2.91 | 3.12 | 58.2 | 62.4 | 1 | 32.0-150 | | | 6.97 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 4.93 | 4.93 | 98.6 | 98.6 | 1 | 22.0-151 | | | 0.000 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 4.01 | 4.32 | 80.2 | 86.4 | 1 | 34.0-147 | | | 7.44 | 27 |
| Dibromomethane | 5.00 | U | 3.80 | 3.82 | 76.0 | 76.4 | 1 | 30.0-151 | | | 0.525 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 3.92 | 4.41 | 78.4 | 88.2 | 1 | 34.0-149 | | | 11.8 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 4.00 | 4.05 | 80.0 | 81.0 | 1 | 36.0-146 | | | 1.24 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 3.92 | 4.18 | 78.4 | 83.6 | 1 | 35.0-142 | | | 6.42 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 2.51 | 2.41 | 50.2 | 48.2 | 1 | 10.0-160 | | | 4.07 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 3.08 | 3.14 | 61.6 | 62.8 | 1 | 25.0-158 | | | 1.93 | 27 |
| 1,2-Dichloroethane | 5.00 | U | 3.88 | 4.13 | 77.6 | 82.6 | 1 | 29.0-151 | | | 6.24 | 27 |
| 1,1-Dichloroethene | 5.00 | U | 2.82 | 2.98 | 56.4 | 59.6 | 1 | 11.0-160 | | | 5.52 | 29 |
| cis-1,2-Dichloroethene | 5.00 | U | 3.26 | 3.20 | 65.2 | 64.0 | 1 | 10.0-160 | | | 1.86 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 2.43 | 2.59 | 48.6 | 51.8 | 1 | 17.0-153 | | | 6.37 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 3.53 | 3.47 | 70.6 | 69.4 | 1 | 30.0-156 | | | 1.71 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 2.68 | 2.86 | 53.6 | 57.2 | 1 | 25.0-158 | | | 6.50 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 4.33 | 4.53 | 86.6 | 90.6 | 1 | 38.0-147 | | | 4.51 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 3.37 | 3.61 | 67.4 | 72.2 | 1 | 34.0-149 | | | 6.88 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 3.85 | 3.70 | 77.0 | 74.0 | 1 | 32.0-149 | | | 3.97 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 3.36 | 3.33 | 67.2 | 66.6 | 1 | 24.0-152 | | | 0.897 | 29 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1534502-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-10 09/13/22 19:34 • (MS) R3837498-4 09/13/22 22:23 • (MSD) R3837498-5 09/13/22 22:45

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | U | 2.50 | 2.56 | 50.0 | 51.2 | 1 | 51.0-139 | J6 | | 2.37 | 20 |
| Di-isopropyl ether | 5.00 | U | 4.31 | 4.53 | 86.2 | 90.6 | 1 | 21.0-160 | | | 4.98 | 28 |
| Ethylbenzene | 5.00 | U | 3.17 | 3.45 | 63.4 | 69.0 | 1 | 30.0-155 | | | 8.46 | 27 |
| 4-Ethyltoluene | 5.00 | U | 3.08 | 3.37 | 61.6 | 67.4 | 1 | 10.0-160 | | | 8.99 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | U | 3.45 | 3.96 | 69.0 | 79.2 | 1 | 20.0-154 | | | 13.8 | 34 |
| n-Hexane | 5.00 | U | 2.05 | 2.10 | 41.0 | 42.0 | 1 | 10.0-153 | | | 2.41 | 28 |
| Isopropylbenzene | 5.00 | U | 3.15 | 3.16 | 63.0 | 63.2 | 1 | 28.0-157 | | | 0.317 | 27 |
| p-Isopropyltoluene | 5.00 | U | 3.15 | 3.20 | 63.0 | 64.0 | 1 | 30.0-154 | | | 1.57 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 29.5 | 28.8 | 118 | 115 | 1 | 10.0-160 | | | 2.40 | 32 |
| Methyl Cyclohexane | 5.00 | U | 2.16 | 1.99 | 43.2 | 39.8 | 1 | 11.0-160 | | | 8.19 | 24 |
| Methylene Chloride | 5.00 | U | 3.03 | 3.34 | 60.6 | 66.8 | 1 | 23.0-144 | | | 9.73 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 27.2 | 28.2 | 109 | 113 | 1 | 29.0-160 | | | 3.61 | 29 |
| Methyl tert-butyl ether | 5.00 | U | 4.41 | 4.65 | 88.2 | 93.0 | 1 | 28.0-150 | | | 5.30 | 29 |
| Naphthalene | 5.00 | U | 4.15 | 4.44 | 83.0 | 88.8 | 1 | 12.0-156 | | | 6.75 | 35 |
| Propene | 5.00 | U | 2.15 | 2.41 | 43.0 | 48.2 | 1 | 10.0-160 | | | 11.4 | 29 |
| n-Propylbenzene | 5.00 | U | 3.24 | 3.41 | 64.8 | 68.2 | 1 | 31.0-154 | | | 5.11 | 28 |
| Styrene | 5.00 | U | 3.75 | 4.03 | 75.0 | 80.6 | 1 | 33.0-155 | | | 7.20 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 3.76 | 3.61 | 75.2 | 72.2 | 1 | 36.0-151 | | | 4.07 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 5.08 | 5.51 | 102 | 110 | 1 | 33.0-150 | | | 8.12 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 3.64 | 3.72 | 72.8 | 74.4 | 1 | 23.0-160 | | | 2.17 | 30 |
| Tetrachloroethene | 5.00 | U | 2.72 | 2.94 | 54.4 | 58.8 | 1 | 10.0-160 | | | 7.77 | 27 |
| Toluene | 5.00 | U | 3.33 | 3.44 | 66.6 | 68.8 | 1 | 26.0-154 | | | 3.25 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 3.75 | 3.96 | 75.0 | 79.2 | 1 | 17.0-150 | | | 5.45 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 3.92 | 3.88 | 78.4 | 77.6 | 1 | 24.0-150 | | | 1.03 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 3.23 | 3.25 | 64.6 | 65.0 | 1 | 23.0-160 | | | 0.617 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 4.58 | 4.47 | 91.6 | 89.4 | 1 | 35.0-147 | | | 2.43 | 27 |
| Trichloroethene | 5.00 | U | 3.12 | 3.27 | 62.4 | 65.4 | 1 | 10.0-160 | | | 4.69 | 25 |
| Trichlorofluoromethane | 5.00 | U | 0.982 | 3.27 | 19.6 | 65.4 | 1 | 17.0-160 | | J3 | 108 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 5.07 | 5.20 | 101 | 104 | 1 | 34.0-151 | | | 2.53 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 3.23 | 3.37 | 64.6 | 67.4 | 1 | 26.0-154 | | | 4.24 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 3.58 | 3.62 | 71.6 | 72.4 | 1 | 32.0-149 | | | 1.11 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 3.13 | 3.33 | 62.6 | 66.6 | 1 | 28.0-153 | | | 6.19 | 27 |
| Vinyl chloride | 5.00 | U | 2.21 | 2.34 | 44.2 | 46.8 | 1 | 10.0-160 | | | 5.71 | 27 |
| Xylenes, Total | 15.0 | U | 9.89 | 10.3 | 65.9 | 68.7 | 1 | 29.0-154 | | | 4.06 | 28 |
| (S) Toluene-d8 | | | | | 96.1 | 97.1 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 104 | 105 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 98.9 | 95.9 | | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3838411-3 09/14/22 10:02

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| 1,3-Butadiene | U | | 0.299 | 2.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Carbon disulfide | U | | 0.0962 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| Cyclohexane | U | | 0.188 | 1.00 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3838411-3 09/14/22 10:02

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Dicyclopentadiene | U | | 0.253 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |
| n-Hexane | U | | 0.749 | 10.0 |
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| Propene | U | | 0.936 | 2.50 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| (S) Toluene-d8 | 114 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 103 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3838411-1 09/14/22 08:56 • (LCSD) R3838411-2 09/14/22 09:18

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Acetone | 25.0 | 27.8 | 27.2 | 111 | 109 | 19.0-160 | | | 2.18 | 27 |
| Acrolein | 25.0 | 33.8 | 33.9 | 135 | 136 | 30.0-160 | | | 0.295 | 26 |
| Acrylonitrile | 25.0 | 25.7 | 27.3 | 103 | 109 | 55.0-149 | | | 6.04 | 20 |
| Benzene | 5.00 | 5.58 | 5.13 | 112 | 103 | 70.0-123 | | | 8.40 | 20 |
| Bromobenzene | 5.00 | 4.71 | 4.81 | 94.2 | 96.2 | 73.0-121 | | | 2.10 | 20 |
| Bromodichloromethane | 5.00 | 4.68 | 4.64 | 93.6 | 92.8 | 75.0-120 | | | 0.858 | 20 |
| Bromoform | 5.00 | 3.48 | 3.71 | 69.6 | 74.2 | 68.0-132 | | | 6.40 | 20 |
| Bromomethane | 5.00 | 3.25 | 3.18 | 65.0 | 63.6 | 30.0-160 | | | 2.18 | 25 |
| 1,3-Butadiene | 5.00 | 4.49 | 4.03 | 89.8 | 80.6 | 45.0-147 | | | 10.8 | 20 |
| n-Butylbenzene | 5.00 | 4.62 | 5.15 | 92.4 | 103 | 73.0-125 | | | 10.8 | 20 |
| sec-Butylbenzene | 5.00 | 5.24 | 5.25 | 105 | 105 | 75.0-125 | | | 0.191 | 20 |
| tert-Butylbenzene | 5.00 | 5.09 | 5.17 | 102 | 103 | 76.0-124 | | | 1.56 | 20 |
| Carbon tetrachloride | 5.00 | 5.34 | 4.56 | 107 | 91.2 | 68.0-126 | | | 15.8 | 20 |
| Carbon disulfide | 5.00 | 4.92 | 4.64 | 98.4 | 92.8 | 61.0-128 | | | 5.86 | 20 |
| Chlorobenzene | 5.00 | 4.77 | 4.93 | 95.4 | 98.6 | 80.0-121 | | | 3.30 | 20 |
| Chlorodibromomethane | 5.00 | 3.90 | 4.35 | 78.0 | 87.0 | 77.0-125 | | | 10.9 | 20 |
| Chloroethane | 5.00 | 3.21 | 2.88 | 64.2 | 57.6 | 47.0-150 | | | 10.8 | 20 |
| Chloroform | 5.00 | 5.18 | 4.99 | 104 | 99.8 | 73.0-120 | | | 3.74 | 20 |
| Chloromethane | 5.00 | 3.93 | 3.79 | 78.6 | 75.8 | 41.0-142 | | | 3.63 | 20 |
| Cyclohexane | 5.00 | 5.55 | 5.18 | 111 | 104 | 71.0-124 | | | 6.90 | 20 |
| 2-Chlorotoluene | 5.00 | 4.89 | 4.89 | 97.8 | 97.8 | 76.0-123 | | | 0.000 | 20 |
| 4-Chlorotoluene | 5.00 | 4.58 | 4.86 | 91.6 | 97.2 | 75.0-122 | | | 5.93 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 2.91 | 3.44 | 58.2 | 68.8 | 58.0-134 | | | 16.7 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.51 | 4.48 | 90.2 | 89.6 | 80.0-122 | | | 0.667 | 20 |
| Dibromomethane | 5.00 | 5.18 | 4.84 | 104 | 96.8 | 80.0-120 | | | 6.79 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 5.15 | 5.13 | 103 | 103 | 79.0-121 | | | 0.389 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.53 | 4.72 | 90.6 | 94.4 | 79.0-120 | | | 4.11 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 5.35 | 4.61 | 107 | 92.2 | 79.0-120 | | | 14.9 | 20 |
| Dichlorodifluoromethane | 5.00 | 4.83 | 4.21 | 96.6 | 84.2 | 51.0-149 | | | 13.7 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.32 | 5.08 | 106 | 102 | 70.0-126 | | | 4.62 | 20 |
| 1,2-Dichloroethane | 5.00 | 4.85 | 4.96 | 97.0 | 99.2 | 70.0-128 | | | 2.24 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.46 | 4.98 | 109 | 99.6 | 71.0-124 | | | 9.20 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.99 | 4.93 | 99.8 | 98.6 | 73.0-120 | | | 1.21 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 5.33 | 5.11 | 107 | 102 | 73.0-120 | | | 4.21 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.34 | 4.92 | 107 | 98.4 | 77.0-125 | | | 8.19 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.46 | 5.11 | 109 | 102 | 74.0-126 | | | 6.62 | 20 |
| 1,3-Dichloropropane | 5.00 | 5.04 | 5.25 | 101 | 105 | 80.0-120 | | | 4.08 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.70 | 4.50 | 94.0 | 90.0 | 80.0-123 | | | 4.35 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 3.69 | 3.93 | 73.8 | 78.6 | 78.0-124 | J4 | | 6.30 | 20 |
| 2,2-Dichloropropane | 5.00 | 3.94 | 3.81 | 78.8 | 76.2 | 58.0-130 | | | 3.35 | 20 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3838411-1 09/14/22 08:56 • (LCSD) R3838411-2 09/14/22 09:18

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | 5.39 | 5.45 | 108 | 109 | 74.0-126 | | | 1.11 | 20 |
| Di-isopropyl ether | 5.00 | 5.49 | 5.35 | 110 | 107 | 58.0-138 | | | 2.58 | 20 |
| Ethylbenzene | 5.00 | 4.68 | 4.99 | 93.6 | 99.8 | 79.0-123 | | | 6.41 | 20 |
| 4-Ethyltoluene | 5.00 | 5.06 | 5.12 | 101 | 102 | 74.0-127 | | | 1.18 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 5.17 | 5.07 | 103 | 101 | 54.0-138 | | | 1.95 | 20 |
| n-Hexane | 5.00 | 5.21 | 4.65 | 104 | 93.0 | 57.0-133 | | | 11.4 | 20 |
| Isopropylbenzene | 5.00 | 4.90 | 5.09 | 98.0 | 102 | 76.0-127 | | | 3.80 | 20 |
| p-Isopropyltoluene | 5.00 | 5.18 | 5.20 | 104 | 104 | 76.0-125 | | | 0.385 | 20 |
| 2-Butanone (MEK) | 25.0 | 28.5 | 28.1 | 114 | 112 | 44.0-160 | | | 1.41 | 20 |
| Methyl Cyclohexane | 5.00 | 4.97 | 4.92 | 99.4 | 98.4 | 68.0-126 | | | 1.01 | 20 |
| Methylene Chloride | 5.00 | 4.93 | 4.92 | 98.6 | 98.4 | 67.0-120 | | | 0.203 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 24.6 | 27.4 | 98.4 | 110 | 68.0-142 | | | 10.8 | 20 |
| Methyl tert-butyl ether | 5.00 | 5.01 | 4.95 | 100 | 99.0 | 68.0-125 | | | 1.20 | 20 |
| Naphthalene | 5.00 | 3.72 | 4.38 | 74.4 | 87.6 | 54.0-135 | | | 16.3 | 20 |
| Propene | 5.00 | 5.14 | 5.03 | 103 | 101 | 30.0-160 | | | 2.16 | 20 |
| n-Propylbenzene | 5.00 | 5.24 | 5.05 | 105 | 101 | 77.0-124 | | | 3.69 | 20 |
| Styrene | 5.00 | 4.15 | 4.19 | 83.0 | 83.8 | 73.0-130 | | | 0.959 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.64 | 4.43 | 92.8 | 88.6 | 75.0-125 | | | 4.63 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.75 | 4.86 | 95.0 | 97.2 | 65.0-130 | | | 2.29 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 5.41 | 5.03 | 108 | 101 | 69.0-132 | | | 7.28 | 20 |
| Tetrachloroethene | 5.00 | 4.66 | 5.03 | 93.2 | 101 | 72.0-132 | | | 7.64 | 20 |
| Toluene | 5.00 | 5.08 | 5.17 | 102 | 103 | 79.0-120 | | | 1.76 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.75 | 5.30 | 95.0 | 106 | 50.0-138 | | | 10.9 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.64 | 4.81 | 92.8 | 96.2 | 57.0-137 | | | 3.60 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 5.03 | 4.85 | 101 | 97.0 | 73.0-124 | | | 3.64 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.88 | 5.08 | 97.6 | 102 | 80.0-120 | | | 4.02 | 20 |
| Trichloroethene | 5.00 | 5.13 | 5.08 | 103 | 102 | 78.0-124 | | | 0.979 | 20 |
| Trichlorofluoromethane | 5.00 | 4.85 | 4.12 | 97.0 | 82.4 | 59.0-147 | | | 16.3 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.56 | 5.08 | 91.2 | 102 | 73.0-130 | | | 10.8 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.81 | 4.97 | 96.2 | 99.4 | 76.0-121 | | | 3.27 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 5.13 | 5.19 | 103 | 104 | 77.0-120 | | | 1.16 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.98 | 5.41 | 99.6 | 108 | 76.0-122 | | | 8.28 | 20 |
| Vinyl chloride | 5.00 | 4.90 | 4.39 | 98.0 | 87.8 | 67.0-131 | | | 11.0 | 20 |
| Xylenes, Total | 15.0 | 14.7 | 14.4 | 98.0 | 96.0 | 79.0-123 | | | 2.06 | 20 |
| (S) Toluene-d8 | | | | 107 | 107 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 101 | 103 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 106 | 107 | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1534502-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-19 09/14/22 15:06 • (MS) R3838411-4 09/14/22 18:22 • (MSD) R3838411-5 09/14/22 18:44

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone | 25.0 | U | 29.9 | 29.2 | 120 | 117 | 1 | 10.0-160 | | | 2.37 | 35 |
| Acrolein | 25.0 | U | 22.4 | 17.2 | 89.6 | 68.8 | 1 | 10.0-160 | | | 26.3 | 39 |
| Acrylonitrile | 25.0 | U | 28.1 | 25.1 | 112 | 100 | 1 | 21.0-160 | | | 11.3 | 32 |
| Benzene | 5.00 | U | 4.67 | 3.36 | 93.4 | 67.2 | 1 | 17.0-158 | | U3 | 32.6 | 27 |
| Bromobenzene | 5.00 | U | 4.57 | 3.46 | 91.4 | 69.2 | 1 | 30.0-149 | | | 27.6 | 28 |
| Bromodichloromethane | 5.00 | U | 4.72 | 3.38 | 94.4 | 67.6 | 1 | 31.0-150 | | U3 | 33.1 | 27 |
| Bromoform | 5.00 | U | 3.42 | 2.79 | 68.4 | 55.8 | 1 | 29.0-150 | | | 20.3 | 29 |
| Bromomethane | 5.00 | U | 2.17 | 1.63 | 43.4 | 32.6 | 1 | 10.0-160 | | | 28.4 | 38 |
| 1,3-Butadiene | 5.00 | U | 3.24 | 2.29 | 64.8 | 45.8 | 1 | 10.0-160 | | U3 | 34.4 | 22 |
| n-Butylbenzene | 5.00 | U | 4.54 | 3.44 | 90.8 | 68.8 | 1 | 31.0-150 | | | 27.6 | 30 |
| sec-Butylbenzene | 5.00 | U | 5.14 | 3.87 | 103 | 77.4 | 1 | 33.0-155 | | | 28.2 | 29 |
| tert-Butylbenzene | 5.00 | U | 4.91 | 3.70 | 98.2 | 74.0 | 1 | 34.0-153 | | U3 | 28.1 | 28 |
| Carbon tetrachloride | 5.00 | U | 4.62 | 2.84 | 92.4 | 56.8 | 1 | 23.0-159 | | U3 | 47.7 | 28 |
| Carbon disulfide | 5.00 | U | 2.02 | 1.53 | 40.4 | 30.6 | 1 | 10.0-156 | | | 27.6 | 28 |
| Chlorobenzene | 5.00 | U | 4.54 | 3.47 | 90.8 | 69.4 | 1 | 33.0-152 | | | 26.7 | 27 |
| Chlorodibromomethane | 5.00 | U | 3.96 | 3.29 | 79.2 | 65.8 | 1 | 37.0-149 | | | 18.5 | 27 |
| Chloroethane | 5.00 | U | 2.14 | 1.01 | 42.8 | 20.2 | 1 | 10.0-160 | | U3 | 71.7 | 30 |
| Chloroform | 5.00 | U | 5.05 | 3.78 | 101 | 75.6 | 1 | 29.0-154 | | U3 | 28.8 | 28 |
| Chloromethane | 5.00 | U | 2.71 | 1.96 | 54.2 | 39.2 | 1 | 10.0-160 | | U3 | 32.1 | 29 |
| Cyclohexane | 5.00 | U | 3.51 | 2.48 | 70.2 | 49.6 | 1 | 19.0-160 | | U3 | 34.4 | 23 |
| 2-Chlorotoluene | 5.00 | U | 4.65 | 3.26 | 93.0 | 65.2 | 1 | 32.0-153 | | U3 | 35.1 | 28 |
| 4-Chlorotoluene | 5.00 | U | 4.37 | 3.16 | 87.4 | 63.2 | 1 | 32.0-150 | | U3 | 32.1 | 28 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | U | 2.94 | 3.09 | 58.8 | 61.8 | 1 | 22.0-151 | | | 4.98 | 34 |
| 1,2-Dibromoethane | 5.00 | U | 4.39 | 3.72 | 87.8 | 74.4 | 1 | 34.0-147 | | | 16.5 | 27 |
| Dibromomethane | 5.00 | U | 4.92 | 3.88 | 98.4 | 77.6 | 1 | 30.0-151 | | | 23.6 | 27 |
| 1,2-Dichlorobenzene | 5.00 | U | 5.01 | 3.98 | 100 | 79.6 | 1 | 34.0-149 | | | 22.9 | 28 |
| 1,3-Dichlorobenzene | 5.00 | U | 4.66 | 3.29 | 93.2 | 65.8 | 1 | 36.0-146 | | U3 | 34.5 | 27 |
| 1,4-Dichlorobenzene | 5.00 | U | 4.15 | 3.34 | 83.0 | 66.8 | 1 | 35.0-142 | | | 21.6 | 27 |
| Dichlorodifluoromethane | 5.00 | U | 3.67 | 2.49 | 73.4 | 49.8 | 1 | 10.0-160 | | U3 | 38.3 | 29 |
| 1,1-Dichloroethane | 5.00 | U | 4.80 | 3.52 | 96.0 | 70.4 | 1 | 25.0-158 | | U3 | 30.8 | 27 |
| 1,2-Dichloroethane | 5.00 | U | 4.73 | 3.62 | 94.6 | 72.4 | 1 | 29.0-151 | | | 26.6 | 27 |
| 1,1-Dichloroethene | 5.00 | 0.694 | 4.84 | 3.45 | 82.9 | 55.1 | 1 | 11.0-160 | | U3 | 33.5 | 29 |
| cis-1,2-Dichloroethene | 5.00 | 0.937 | 6.05 | 4.29 | 102 | 67.1 | 1 | 10.0-160 | | U3 | 34.0 | 27 |
| trans-1,2-Dichloroethene | 5.00 | U | 3.59 | 2.69 | 71.8 | 53.8 | 1 | 17.0-153 | | U3 | 28.7 | 27 |
| 1,2-Dichloropropane | 5.00 | U | 4.64 | 3.51 | 92.8 | 70.2 | 1 | 30.0-156 | | U3 | 27.7 | 27 |
| 1,1-Dichloropropene | 5.00 | U | 4.39 | 3.03 | 87.8 | 60.6 | 1 | 25.0-158 | | U3 | 36.7 | 27 |
| 1,3-Dichloropropane | 5.00 | U | 4.81 | 4.07 | 96.2 | 81.4 | 1 | 38.0-147 | | | 16.7 | 27 |
| cis-1,3-Dichloropropene | 5.00 | U | 3.93 | 3.05 | 78.6 | 61.0 | 1 | 34.0-149 | | | 25.2 | 28 |
| trans-1,3-Dichloropropene | 5.00 | U | 3.44 | 2.53 | 68.8 | 50.6 | 1 | 32.0-149 | | U3 | 30.5 | 28 |
| 2,2-Dichloropropane | 5.00 | U | 3.25 | 2.35 | 65.0 | 47.0 | 1 | 24.0-152 | | U3 | 32.1 | 29 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1534502-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-19 09/14/22 15:06 • (MS) R3838411-4 09/14/22 18:22 • (MSD) R3838411-5 09/14/22 18:44

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | U | 4.32 | 2.91 | 86.4 | 58.2 | 1 | 51.0-139 | | J3 | 39.0 | 20 |
| Di-isopropyl ether | 5.00 | U | 5.06 | 4.28 | 101 | 85.6 | 1 | 21.0-160 | | | 16.7 | 28 |
| Ethylbenzene | 5.00 | U | 4.27 | 3.39 | 85.4 | 67.8 | 1 | 30.0-155 | | | 23.0 | 27 |
| 4-Ethyltoluene | 5.00 | U | 4.63 | 3.24 | 92.6 | 64.8 | 1 | 10.0-160 | | J3 | 35.3 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | U | 4.78 | 4.17 | 95.6 | 83.4 | 1 | 20.0-154 | | | 13.6 | 34 |
| n-Hexane | 5.00 | U | 2.75 | 2.09 | 55.0 | 41.8 | 1 | 10.0-153 | | | 27.3 | 28 |
| Isopropylbenzene | 5.00 | U | 4.69 | 3.39 | 93.8 | 67.8 | 1 | 28.0-157 | | J3 | 32.2 | 27 |
| p-Isopropyltoluene | 5.00 | U | 4.79 | 3.62 | 95.8 | 72.4 | 1 | 30.0-154 | | | 27.8 | 29 |
| 2-Butanone (MEK) | 25.0 | U | 29.6 | 26.9 | 118 | 108 | 1 | 10.0-160 | | | 9.56 | 32 |
| Methyl Cyclohexane | 5.00 | U | 3.12 | 2.24 | 62.4 | 44.8 | 1 | 11.0-160 | | J3 | 32.8 | 24 |
| Methylene Chloride | 5.00 | U | 4.11 | 2.99 | 82.2 | 59.8 | 1 | 23.0-144 | | J3 | 31.5 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | U | 27.6 | 25.7 | 110 | 103 | 1 | 29.0-160 | | | 7.13 | 29 |
| Methyl tert-butyl ether | 5.00 | U | 5.03 | 4.35 | 101 | 87.0 | 1 | 28.0-150 | | | 14.5 | 29 |
| Naphthalene | 5.00 | U | 4.00 | 3.37 | 80.0 | 67.4 | 1 | 12.0-156 | | | 17.1 | 35 |
| Propene | 5.00 | U | 3.47 | 2.62 | 69.4 | 52.4 | 1 | 10.0-160 | | | 27.9 | 29 |
| n-Propylbenzene | 5.00 | U | 4.83 | 3.49 | 96.6 | 69.8 | 1 | 31.0-154 | | J3 | 32.2 | 28 |
| Styrene | 5.00 | U | 4.17 | 2.80 | 83.4 | 56.0 | 1 | 33.0-155 | | J3 J3 | 39.3 | 28 |
| 1,1,1,2-Tetrachloroethane | 5.00 | U | 4.52 | 3.33 | 90.4 | 66.6 | 1 | 36.0-151 | | J3 | 30.3 | 29 |
| 1,1,2,2-Tetrachloroethane | 5.00 | U | 5.16 | 4.88 | 103 | 97.6 | 1 | 33.0-150 | | | 5.58 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | U | 5.19 | 3.32 | 104 | 66.4 | 1 | 23.0-160 | | J3 | 43.9 | 30 |
| Tetrachloroethene | 5.00 | U | 4.12 | 2.65 | 82.4 | 53.0 | 1 | 10.0-160 | | J3 J3 | 43.4 | 27 |
| Toluene | 5.00 | U | 4.41 | 3.23 | 88.2 | 64.6 | 1 | 26.0-154 | | J3 | 30.9 | 28 |
| 1,2,3-Trichlorobenzene | 5.00 | U | 4.78 | 4.07 | 95.6 | 81.4 | 1 | 17.0-150 | | | 16.0 | 36 |
| 1,2,4-Trichlorobenzene | 5.00 | U | 4.48 | 3.76 | 89.6 | 75.2 | 1 | 24.0-150 | | | 17.5 | 33 |
| 1,1,1-Trichloroethane | 5.00 | U | 4.76 | 3.39 | 95.2 | 67.8 | 1 | 23.0-160 | | J3 | 33.6 | 28 |
| 1,1,2-Trichloroethane | 5.00 | U | 5.13 | 4.02 | 103 | 80.4 | 1 | 35.0-147 | | | 24.3 | 27 |
| Trichloroethene | 5.00 | 6.40 | 9.81 | 8.67 | 68.2 | 45.4 | 1 | 10.0-160 | | | 12.3 | 25 |
| Trichlorofluoromethane | 5.00 | U | 3.99 | 2.63 | 79.8 | 52.6 | 1 | 17.0-160 | | J3 | 41.1 | 31 |
| 1,2,3-Trichloropropane | 5.00 | U | 5.00 | 4.19 | 100 | 83.8 | 1 | 34.0-151 | | | 17.6 | 29 |
| 1,2,4-Trimethylbenzene | 5.00 | U | 4.63 | 3.39 | 92.6 | 67.8 | 1 | 26.0-154 | | J3 | 30.9 | 27 |
| 1,2,3-Trimethylbenzene | 5.00 | U | 4.78 | 3.67 | 95.6 | 73.4 | 1 | 32.0-149 | | | 26.3 | 28 |
| 1,3,5-Trimethylbenzene | 5.00 | U | 5.00 | 3.34 | 100 | 66.8 | 1 | 28.0-153 | | J3 | 39.8 | 27 |
| Vinyl chloride | 5.00 | U | 3.46 | 2.31 | 69.2 | 46.2 | 1 | 10.0-160 | | J3 J3 | 39.9 | 27 |
| Xylenes, Total | 15.0 | U | 13.3 | 9.53 | 88.7 | 63.5 | 1 | 29.0-154 | | J3 | 33.0 | 28 |
| (S) Toluene-d8 | | | | | 108 | 109 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 101 | 103 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 104 | 107 | | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3837934-3 09/15/22 14:26

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| 1,3-Butadiene | U | | 0.299 | 2.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Carbon disulfide | U | | 0.0962 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| Cyclohexane | U | | 0.188 | 1.00 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3837934-3 09/15/22 14:26

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Dicyclopentadiene | U | | 0.253 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |
| n-Hexane | U | | 0.749 | 10.0 |
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| Propene | U | | 0.936 | 2.50 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| (S) Toluene-d8 | 113 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 105 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 105 | | | 70.0-130 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837934-1 09/15/22 13:29 • (LCSD) R3837934-2 09/15/22 13:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone | 25.0 | 18.8 | 18.9 | 75.2 | 75.6 | 19.0-160 | | | 0.531 | 27 |
| Acrolein | 25.0 | 12.8 | 11.8 | 51.2 | 47.2 | 30.0-160 | | | 8.13 | 26 |
| Acrylonitrile | 25.0 | 20.6 | 20.1 | 82.4 | 80.4 | 55.0-149 | | | 2.46 | 20 |
| Benzene | 5.00 | 5.12 | 5.17 | 102 | 103 | 70.0-123 | | | 0.972 | 20 |
| Bromobenzene | 5.00 | 4.78 | 5.04 | 95.6 | 101 | 73.0-121 | | | 5.30 | 20 |
| Bromodichloromethane | 5.00 | 4.62 | 4.80 | 92.4 | 96.0 | 75.0-120 | | | 3.82 | 20 |
| Bromoform | 5.00 | 4.05 | 3.96 | 81.0 | 79.2 | 68.0-132 | | | 2.25 | 20 |
| Bromomethane | 5.00 | 5.27 | 5.45 | 105 | 109 | 30.0-160 | | | 3.36 | 25 |
| 1,3-Butadiene | 5.00 | 4.88 | 5.10 | 97.6 | 102 | 45.0-147 | | | 4.41 | 20 |
| n-Butylbenzene | 5.00 | 4.81 | 5.15 | 96.2 | 103 | 73.0-125 | | | 6.83 | 20 |
| sec-Butylbenzene | 5.00 | 5.20 | 5.40 | 104 | 108 | 75.0-125 | | | 3.77 | 20 |
| tert-Butylbenzene | 5.00 | 5.07 | 5.29 | 101 | 106 | 76.0-124 | | | 4.25 | 20 |
| Carbon tetrachloride | 5.00 | 4.89 | 4.96 | 97.8 | 99.2 | 68.0-126 | | | 1.42 | 20 |
| Carbon disulfide | 5.00 | 4.90 | 5.14 | 98.0 | 103 | 61.0-128 | | | 4.78 | 20 |
| Chlorobenzene | 5.00 | 4.98 | 5.14 | 99.6 | 103 | 80.0-121 | | | 3.16 | 20 |
| Chlorodibromomethane | 5.00 | 4.19 | 4.31 | 83.8 | 86.2 | 77.0-125 | | | 2.82 | 20 |
| Chloroethane | 5.00 | 4.96 | 5.67 | 99.2 | 113 | 47.0-150 | | | 13.4 | 20 |
| Chloroform | 5.00 | 5.11 | 5.20 | 102 | 104 | 73.0-120 | | | 1.75 | 20 |
| Chloromethane | 5.00 | 5.08 | 5.08 | 102 | 102 | 41.0-142 | | | 0.000 | 20 |
| Cyclohexane | 5.00 | 5.00 | 5.21 | 100 | 104 | 71.0-124 | | | 4.11 | 20 |
| 2-Chlorotoluene | 5.00 | 4.77 | 5.10 | 95.4 | 102 | 76.0-123 | | | 6.69 | 20 |
| 4-Chlorotoluene | 5.00 | 4.79 | 5.06 | 95.8 | 101 | 75.0-122 | | | 5.48 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.18 | 4.20 | 83.6 | 84.0 | 58.0-134 | | | 0.477 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.65 | 4.68 | 93.0 | 93.6 | 80.0-122 | | | 0.643 | 20 |
| Dibromomethane | 5.00 | 4.69 | 4.76 | 93.8 | 95.2 | 80.0-120 | | | 1.48 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.70 | 4.81 | 94.0 | 96.2 | 79.0-121 | | | 2.31 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.88 | 5.08 | 97.6 | 102 | 79.0-120 | | | 4.02 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.91 | 4.84 | 98.2 | 96.8 | 79.0-120 | | | 1.44 | 20 |
| Dichlorodifluoromethane | 5.00 | 4.81 | 4.84 | 96.2 | 96.8 | 51.0-149 | | | 0.622 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.04 | 5.12 | 101 | 102 | 70.0-126 | | | 1.57 | 20 |
| 1,2-Dichloroethane | 5.00 | 4.65 | 4.75 | 93.0 | 95.0 | 70.0-128 | | | 2.13 | 20 |
| 1,1-Dichloroethene | 5.00 | 4.99 | 5.22 | 99.8 | 104 | 71.0-124 | | | 4.51 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 5.00 | 5.16 | 100 | 103 | 73.0-120 | | | 3.15 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 5.29 | 5.44 | 106 | 109 | 73.0-120 | | | 2.80 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.00 | 5.09 | 100 | 102 | 77.0-125 | | | 1.78 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.05 | 5.31 | 101 | 106 | 74.0-126 | | | 5.02 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.76 | 4.91 | 95.2 | 98.2 | 80.0-120 | | | 3.10 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.53 | 4.58 | 90.6 | 91.6 | 80.0-123 | | | 1.10 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.33 | 4.49 | 86.6 | 89.8 | 78.0-124 | | | 3.63 | 20 |
| 2,2-Dichloropropane | 5.00 | 5.71 | 5.60 | 114 | 112 | 58.0-130 | | | 1.95 | 20 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837934-1 09/15/22 13:29 • (LCSD) R3837934-2 09/15/22 13:48

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | 5.01 | 5.24 | 100 | 105 | 74.0-126 | | | 4.49 | 20 |
| Di-isopropyl ether | 5.00 | 4.93 | 5.05 | 98.6 | 101 | 58.0-138 | | | 2.40 | 20 |
| Ethylbenzene | 5.00 | 5.02 | 5.27 | 100 | 105 | 79.0-123 | | | 4.86 | 20 |
| 4-Ethyltoluene | 5.00 | 5.02 | 5.22 | 100 | 104 | 74.0-127 | | | 3.91 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 4.74 | 4.92 | 94.8 | 98.4 | 54.0-138 | | | 3.73 | 20 |
| n-Hexane | 5.00 | 5.08 | 5.22 | 102 | 104 | 57.0-133 | | | 2.72 | 20 |
| Isopropylbenzene | 5.00 | 5.15 | 5.27 | 103 | 105 | 76.0-127 | | | 2.30 | 20 |
| p-Isopropyltoluene | 5.00 | 5.05 | 5.37 | 101 | 107 | 76.0-125 | | | 6.14 | 20 |
| 2-Butanone (MEK) | 25.0 | 20.2 | 20.5 | 80.8 | 82.0 | 44.0-160 | | | 1.47 | 20 |
| Methyl Cyclohexane | 5.00 | 5.04 | 5.28 | 101 | 106 | 68.0-126 | | | 4.65 | 20 |
| Methylene Chloride | 5.00 | 4.91 | 5.14 | 98.2 | 103 | 67.0-120 | | | 4.58 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 23.9 | 24.0 | 95.6 | 96.0 | 68.0-142 | | | 0.418 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.91 | 4.84 | 98.2 | 96.8 | 68.0-125 | | | 1.44 | 20 |
| Naphthalene | 5.00 | 4.02 | 4.02 | 80.4 | 80.4 | 54.0-135 | | | 0.000 | 20 |
| Propene | 5.00 | 3.42 | 3.71 | 68.4 | 74.2 | 30.0-160 | | | 8.13 | 20 |
| n-Propylbenzene | 5.00 | 4.92 | 5.16 | 98.4 | 103 | 77.0-124 | | | 4.76 | 20 |
| Styrene | 5.00 | 4.95 | 5.07 | 99.0 | 101 | 73.0-130 | | | 2.40 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.59 | 4.71 | 91.8 | 94.2 | 75.0-125 | | | 2.58 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.47 | 4.64 | 89.4 | 92.8 | 65.0-130 | | | 3.73 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 4.89 | 5.11 | 97.8 | 102 | 69.0-132 | | | 4.40 | 20 |
| Tetrachloroethene | 5.00 | 5.13 | 5.55 | 103 | 111 | 72.0-132 | | | 7.87 | 20 |
| Toluene | 5.00 | 4.89 | 5.07 | 97.8 | 101 | 79.0-120 | | | 3.61 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 4.81 | 4.86 | 96.2 | 97.2 | 50.0-138 | | | 1.03 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.49 | 4.46 | 89.8 | 89.2 | 57.0-137 | | | 0.670 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.93 | 5.12 | 98.6 | 102 | 73.0-124 | | | 3.78 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.79 | 4.95 | 95.8 | 99.0 | 80.0-120 | | | 3.29 | 20 |
| Trichloroethene | 5.00 | 5.02 | 5.27 | 100 | 105 | 78.0-124 | | | 4.86 | 20 |
| Trichlorofluoromethane | 5.00 | 5.06 | 5.15 | 101 | 103 | 59.0-147 | | | 1.76 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.62 | 4.78 | 92.4 | 95.6 | 73.0-130 | | | 3.40 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.90 | 5.15 | 98.0 | 103 | 76.0-121 | | | 4.98 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.91 | 5.06 | 98.2 | 101 | 77.0-120 | | | 3.01 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.66 | 4.99 | 93.2 | 99.8 | 76.0-122 | | | 6.84 | 20 |
| Vinyl chloride | 5.00 | 4.94 | 4.97 | 98.8 | 99.4 | 67.0-131 | | | 0.605 | 20 |
| Xylenes, Total | 15.0 | 15.3 | 15.9 | 102 | 106 | 79.0-123 | | | 3.85 | 20 |
| (S) Toluene-d8 | | | | 111 | 112 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 104 | 108 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 107 | 107 | 70.0-130 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3840126-3 09/18/22 19:32

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Trichloroethene | U | | 0.190 | 1.00 |
| (S) Toluene-d8 | 97.2 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 98.4 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 111 | | | 70.0-130 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3840126-1 09/18/22 18:09 • (LCSD) R3840126-2 09/18/22 19:10

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Trichloroethene | 5.00 | 5.01 | 5.10 | 100 | 102 | 78.0-124 | | | 1.78 | 20 |
| (S) Toluene-d8 | | | | 95.1 | 95.1 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 99.2 | 99.7 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 111 | 110 | 70.0-130 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3839848-3 09/15/22 18:02

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------|-----------|--------------|--------|----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 |
| (S) Toluene-d8 | 99.8 | | | 77.0-127 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3839848-1 09/15/22 16:40 • (LCSD) R3839848-2 09/15/22 17:22

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| 1,4-Dioxane | 50.0 | 29.9 | 30.5 | 59.8 | 61.0 | 55.0-138 | | | 1.99 | 24 |
| (S) Toluene-d8 | | | | 98.9 | 97.7 | 77.0-127 | | | | |

L1534502-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-10 09/15/22 22:31 • (MS) R3839848-4 09/16/22 02:11 • (MSD) R3839848-5 09/16/22 02:31

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| 1,4-Dioxane | 50.0 | U | 70.4 | 47.4 | 141 | 94.8 | 1 | 13.0-160 | | J3 | 39.0 | 31 |
| (S) Toluene-d8 | | | | | 100 | 99.4 | | 77.0-127 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3840007-2 09/19/22 15:29

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------|-----------|--------------|--------|----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 |
| (S) Toluene-d8 | 101 | | | 77.0-127 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3840007-1 09/19/22 14:01 • (LCSD) R3840007-3 09/19/22 15:49

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| 1,4-Dioxane | 50.0 | 46.7 | 34.4 | 93.4 | 68.8 | 55.0-138 | | J3 | 30.3 | 24 |
| (S) Toluene-d8 | | | | 102 | 102 | 77.0-127 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3840617-3 09/22/22 16:36

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------|-----------|--------------|--------|----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 |
| (S) Toluene-d8 | 102 | | | 77.0-127 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3840617-1 09/22/22 15:08 • (LCSD) R3840617-2 09/22/22 15:27

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| 1,4-Dioxane | 50.0 | 50.4 | 38.7 | 101 | 77.4 | 55.0-138 | | J3 | 26.3 | 24 |
| (S) Toluene-d8 | | | | 103 | 103 | 77.0-127 | | | | |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3840618-3 09/22/22 16:36

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------|-----------|--------------|--------|----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 |
| (S) Toluene-d8 | 102 | | | 77.0-127 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3840618-1 09/22/22 15:08 • (LCSD) R3840618-2 09/22/22 15:27

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| 1,4-Dioxane | 50.0 | 50.4 | 38.7 | 101 | 77.4 | 55.0-138 | | J3 | 26.3 | 24 |
| (S) Toluene-d8 | | | | 103 | 103 | 77.0-127 | | | | |

L1534502-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534502-19 09/22/22 17:34 • (MS) R3840618-4 09/22/22 17:54 • (MSD) R3840618-5 09/22/22 18:14

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| 1,4-Dioxane | 50.0 | 8.21 | 49.5 | 38.1 | 82.6 | 59.8 | 1 | 13.0-160 | | | 26.0 | 31 |
| (S) Toluene-d8 | | | | | 102 | 103 | | 77.0-127 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS21 • File ID: 0914_02

09/14/22 08:56

| Sample ID | File ID | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|------------|--------------------|-----------------------|-----------------------------|
| | | Response | Response | Response |
| Standard | 0914_02 | 135225 | 63691 | 56731 |
| Upper Limit | | 270450 | 127382 | 113462 |
| Lower Limit | | 67613 | 31846 | 28366 |
| LCS R3838411-1 WG1925641 1x | 0914_02LCS | 135225 | 63691 | 56731 |
| LCSD R3838411-2 WG1925641 1x | 0914_03 | 136515 | 60847 | 55102 |
| BLANK R3838411-3 WG1925641 1x | 0914_05 | 130580 | 56712 | 52826 |
| L1534502-23 WG1925641 1x | 0914_09 | 129166 | 56927 | 49060 |
| L1534502-14 WG1925641 1x | 0914_15 | 131086 | 56824 | 54289 |
| L1534502-15 WG1925641 1x | 0914_16 | 129408 | 58037 | 50374 |
| L1534502-17 WG1925641 1x | 0914_17 | 130771 | 57406 | 49748 |
| L1534502-18 WG1925641 1x | 0914_18 | 129733 | 56067 | 48968 |
| L1534502-19 WG1925641 1x | 0914_19 | 129901 | 56666 | 51120 |
| L1534502-21 WG1925641 1x | 0914_20 | 129463 | 57058 | 49687 |
| L1534502-22 WG1925641 1x | 0914_21 | 127876 | 56970 | 49902 |
| L1534502-16 WG1925641 10x | 0914_24 | 128211 | 56500 | 47465 |
| L1534502-20 WG1925641 100x | 0914_25 | 129468 | 56919 | 51202 |
| MS R3838411-4 WG1925641 1x | 0914_28 | 138665 | 64467 | 58436 |
| MSD R3838411-5 WG1925641 1x | 0914_29 | 137159 | 63176 | 57264 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Instrument: VOCMS25 • File ID: 0915_27

09/15/22 13:29

| Sample ID | File ID | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|-------------|--------------------|-----------------------|-----------------------------|
| | | Response | Response | Response |
| Standard | 0915_27 | 465033 | 195734 | 204321 |
| Upper Limit | | 930066 | 391468 | 408642 |
| Lower Limit | | 232517 | 97867 | 102161 |
| LCS R3837934-1 WG1926858 1x | 0915_27LCSB | 465033 | 195734 | 204321 |
| LCSD R3837934-2 WG1926858 1x | 0915_28B | 473840 | 198745 | 204695 |
| BLANK R3837934-3 WG1926858 1x | 0915_30B | 488386 | 199812 | 198939 |
| L1534502-01 WG1926858 1x | 0915_54 | 471518 | 188776 | 184298 |
| L1534502-02 WG1926858 1x | 0915_55 | 466640 | 184599 | 157836 |
| L1534502-04 WG1926858 20x | 0915_56 | 486903 | 194384 | 176267 |

INTERNAL STANDARD SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260B

Instrument: VOCMS26 • File ID: 0918A_02

09/18/22 18:09

| Sample ID | File ID | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|--------------|--------------------|-----------------------|-----------------------------|
| | | Response | Response | Response |
| Standard | 0918A_02 | 384267 | 186697 | 181326 |
| Upper Limit | | 768534 | 373394 | 362652 |
| Lower Limit | | 192134 | 93349 | 90663 |
| LCS R3840126-1 WG1928174 1x | 0918A_02LCSA | 384267 | 186697 | 181326 |
| LCSD R3840126-2 WG1928174 1x | 0918A_05A | 397024 | 192820 | 188749 |
| BLANK R3840126-3 WG1928174 1x | 0918A_06A | 384459 | 183981 | 172699 |
| L1534502-19 WG1928174 1x | 0918A_10 | 364485 | 175411 | 161618 |
| L1534502-21 WG1928174 1x | 0918A_11 | 358402 | 167671 | 161045 |
| L1534502-18 WG1928174 25x | 0918A_12 | 360002 | 172686 | 164111 |

Instrument: VOCMS39 • File ID: 0913_02

09/13/22 09:55

| Sample ID | File ID | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|------------|--------------------|-----------------------|-----------------------------|
| | | Response | Response | Response |
| Standard | 0913_02 | 318900.80 | 117263.10 | 120215.40 |
| Upper Limit | | 637802 | 234526 | 240431 |
| Lower Limit | | 159450 | 58632 | 60108 |
| LCS R3837498-1 WG1925636 1x | 0913_02LCS | 318900.80 | 117263.10 | 120215.40 |
| LCSD R3837498-2 WG1925636 1x | 0913_03 | 326116.70 | 122575.90 | 127066.20 |
| BLANK R3837498-3 WG1925636 1x | 0913_06 | 283768.20 | 99561.50 | 114624.50 |
| L1534502-05 WG1925636 1x | 0913_15 | 260542.70 | 96467.40 | 98766 |
| L1534502-06 WG1925636 1x | 0913_16 | 265736.90 | 93721.50 | 102806.80 |
| L1534502-07 WG1925636 1x | 0913_17 | 260909.30 | 91380.30 | 97058.70 |
| L1534502-08 WG1925636 1x | 0913_18 | 272013 | 91407.30 | 107219.60 |
| L1534502-09 WG1925636 1x | 0913_19 | 246856.60 | 87229.70 | 93605.70 |
| L1534502-10 WG1925636 1x | 0913_20 | 254466.30 | 87381.70 | 102946.40 |
| L1534502-11 WG1925636 1x | 0913_21 | 251509.70 | 86339.80 | 95473.40 |
| L1534502-12 WG1925636 1x | 0913_22 | 244242.30 | 81023 | 89155.40 |
| L1534502-13 WG1925636 1x | 0913_23 | 249392.20 | 85623.10 | 94941 |
| L1534502-03 WG1925636 100x | 0913_26 | 250813 | 83040.50 | 91814.50 |
| MS R3837498-4 WG1925636 1x | 0913_28 | 261474.50 | 96165.10 | 109965.70 |
| MSD R3837498-5 WG1925636 1x | 0913_29 | 266276.60 | 96646.60 | 104636 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

INTERNAL STANDARD SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Instrument: VOCMS27 • File ID: 0915A_02

09/15/22 16:20

| Sample ID | File ID | 8260-FLUOROBENZENE Response |
|-------------------------------|----------|--------------------------------|
| Standard | 0915A_02 | 1401343 |
| Upper Limit | | 2802686 |
| Lower Limit | | 700672 |
| LCS R3839848-1 WG1926871 1x | 0915A_03 | 1578470 |
| LCSD R3839848-2 WG1926871 1x | 0915A_04 | 1490008 |
| BLANK R3839848-3 WG1926871 1x | 0915A_06 | 1291998 |
| L1534502-01 WG1926871 1x | 0915A_07 | 1644881 |
| L1534502-02 WG1926871 1x | 0915A_08 | 1426538 |
| L1534502-03 WG1926871 1x | 0915A_09 | 1138477 |
| L1534502-04 WG1926871 1x | 0915A_10 | 1334868 |
| L1534502-05 WG1926871 1x | 0915A_11 | 1375384 |
| L1534502-06 WG1926871 1x | 0915A_12 | 972690 |
| L1534502-07 WG1926871 1x | 0915A_13 | 1123076 |
| L1534502-08 WG1926871 1x | 0915A_14 | 1215824 |
| L1534502-09 WG1926871 1x | 0915A_15 | 1283018 |
| L1534502-10 WG1926871 1x | 0915A_16 | 1388917 |
| L1534502-11 WG1926871 1x | 0915A_17 | 1368315 |
| L1534502-12 WG1926871 1x | 0915A_18 | 1302708 |
| L1534502-13 WG1926871 1x | 0915A_19 | 1243084 |
| L1534502-14 WG1926871 1x | 0915A_20 | 1321779 |
| L1534502-15 WG1926871 1x | 0915A_21 | 1143084 |
| L1534502-16 WG1926871 1x | 0915A_22 | 1244053 |
| L1534502-17 WG1926871 1x | 0915A_23 | 1314318 |
| L1534502-18 WG1926871 1x | 0915A_24 | 1255771 |
| L1534502-21 WG1926871 1x | 0915A_26 | 1388712 |
| MS R3839848-4 WG1926871 1x | 0915A_27 | 1086072 |
| MSD R3839848-5 WG1926871 1x | 0915A_28 | 1141735 |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

Instrument: VOCMS27 • File ID: 0919_04

09/19/22 13:41

| Sample ID | File ID | 8260-FLUOROBENZENE Response |
|-------------|---------|--------------------------------|
| Standard | 0919_04 | 1252321 |
| Upper Limit | | 2504642 |
| Lower Limit | | 626161 |

INTERNAL STANDARD SUMMARY

Instrument: VOCMS27 • File ID: 0919_04

09/19/22 13:41

| Sample ID | File ID | 8260-FLUOROBENZENE Response |
|-------------------------------|---------|--------------------------------|
| LCS R3840007-1 WG1928694 1x | 0919_05 | 1358259 |
| BLANK R3840007-2 WG1928694 1x | 0919_07 | 1332131 |
| LCSD R3840007-3 WG1928694 1x | 0919_08 | 1321181 |
| L1534502-22 WG1928694 1x | 0919_13 | 1089481 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

Instrument: VOCMS27 • File ID: 0922_03

09/22/22 14:48

| Sample ID | File ID | 8260-FLUOROBENZENE Response |
|-------------------------------|----------|--------------------------------|
| Standard | 0922_03 | 1227321 |
| Upper Limit | | 2454642 |
| Lower Limit | | 613661 |
| LCS R3840618-1 WG1930402 1x | 0922_04 | 1044160 |
| LCS R3840617-1 WG1930191 1x | 0922_04A | 1044160 |
| LCSD R3840618-2 WG1930402 1x | 0922_05 | 1057299 |
| LCSD R3840617-2 WG1930191 1x | 0922_05A | 1057299 |
| BLANK R3840618-3 WG1930402 1x | 0922_07 | 1142948 |
| BLANK R3840617-3 WG1930191 1x | 0922_07A | 1142948 |
| L1534502-20 WG1930191 50x | 0922_08 | 1152634 |
| L1534502-19 WG1930402 1x | 0922_09 | 1318289 |
| MS R3840618-4 WG1930402 1x | 0922_10 | 897953 |
| MSD R3840618-5 WG1930402 1x | 0922_11 | 1115491 |

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|-----------|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # 1534502

E075

Acctnum: PINYONMAZ

Template: T205653

Prelogin: P947435

PM: 288 - Daphne Richards

PB:

Shipped Via:

Remarks Sample # (lab only)

Company Name/Address:
Pinyon Environmental
4815 E. Carefree Highway
#108-274
Cave Creek, AZ 85331

Billing Information:
Accounts Payable
3222 S Vance Street
Suite 200
Lakewood, CO 80227

Pres Chk

Report to:
Jeremy Musson

Email To: guarnieri@pinyon-env.com; musson@pinyon-env.com

Project Description:
Nammo TTU Groundwater Monitoring

City/State Collected: **Mesa, AZ**

Please Circle: PT MT CT ET

Phone: **602-290-4774**

Client Project #
722152201.002

Lab Project #
PINYONMAZ-722152201

Collected by (print):
Ben Boesen

Site/Facility ID #

P.O. #

Collected by (signature):
Ben Boesen
Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
Date Results Needed
Standard TAT

No. of Cntrs

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs |
|-----------|-----------|----------|-------|------|------|--------------|
|-----------|-----------|----------|-------|------|------|--------------|

| | | | | | | |
|-----------------------|--|----|-----|--------|------|----|
| TTU-EXT-1-69-20220908 | | GW | 69 | 9/8/22 | 0910 | 7 |
| TTU-EXT-2-74-20220908 | | GW | 74 | 9/8/22 | 0846 | 7 |
| TTU-EXT-3-76-20220908 | | GW | 76 | 9/8/22 | 0819 | 7 |
| TTU-EXT-4-77-20220908 | | GW | 77 | 9/8/22 | 0751 | 7 |
| TTU-EXT-5-80-20220908 | | GW | 80 | 9/8/22 | 0719 | 7 |
| DUP-82 | | GW | 80 | 9/8/22 | 0719 | 7 |
| TTU-3-108-20220909 | | GW | 108 | 9/9/22 | 1156 | 7 |
| TTU-4-57-20220909 | | GW | 57 | 9/9/22 | 1032 | 7 |
| TTU-5-110-20220908 | | GW | 110 | 9/8/22 | 1246 | 7 |
| TTU-6-143-20220909 | | GW | 143 | 9/9/22 | 1135 | 14 |

| Analysis / Container / Preservative | | |
|-------------------------------------|---------------------|------------------------|
| PERCHLORATE 125mlHDPE-NoPres | V8260AZ 40mlAmb-HCl | V8260LL14D 40mlAmb-HCl |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks:
pH _____ Temp _____
Flow _____ Other _____
Samples returned via: UPS FedEx Courier _____
Tracking # _____

Sample Receipt Checklist

| | |
|-------------------------------|--|
| COC Seal Present/Intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Bottles arrive intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Sufficient volume sent: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| If Applicable | |
| VOA Zero Headspace: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| RAD Screen <0.5 mR/hr: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

Relinquished by: (Signature)
Ben Boesen
Date: 9/9/22 Time: 1617

Received by: (Signature)
[Signature]
Date: 9/9/22 Time: 1806

Received for lab by: (Signature)
[Signature]
Date: 9-10-22 Time: 0900

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR
Temp: °C Bottles Received: 107

If preservation required by Login: Date/Time
Hold: _____
Condition: NCF / OK

4815 E. Carefree Highway #108-274 Cave Creek, AZ 85331

Email To: guarnieri@pinyon-env.com; musson@pinyon-

Report to: **Jeremy Musson**

City/State Collected: **Mesa, AZ** Please Circle: **PT** MT CT ET

Project Description: **Nammo TTU Groundwater Monitoring**

Client Project # **722152201.002** Lab Project # **PINYONMAZ-722152201**

Phone: **602-290-4774** Collected by (print): **Ben Boesen**

Site/Facility ID # P.O. #

Collected by (signature): *Ben Boesen*

Quote #

Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day
 Date Results Needed **Standard TAT**

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | PERCHLORATE 125mlHDPE-NoPres | V8260AZ 40mlAmb-HCl | V8260LL14D 40mlAmb-HCl | | | | | | | | | | | | |
|---------------------|-----------|----------|-------|--------|------|--------------|------------------------------|---------------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|--------|
| TTU-7-345-20220909 | | GW | 345 | 9/9/22 | 1100 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| TTU-8-164-20220909 | | GW | 164 | 9/9/22 | 1000 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| DUP-03 | | GW | 164 | 9/9/22 | 1000 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| TTU-9A-61-20220908 | | GW | 61 | 9/8/22 | 1145 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| TTU-10-165-20220909 | | GW | 165 | 9/9/22 | 1246 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| TTU-12-82-20220909 | | GW | 82 | 9/9/22 | 0810 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| TTU-13-51-20220908 | | GW | 51 | 9/8/22 | 1210 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| TTU-14-64-20220909 | | GW | 64 | 9/9/22 | 0745 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |
| TTU-15-75-20220908 | | GW | 75 | 9/8/22 | 1019 | 147 | ✓ | ✓ | ✓ | | | | | | | | | | | | MS/MSD |
| TTU-16-80-20220908 | | GW | 80 | 9/8/22 | 1108 | 7 | ✓ | ✓ | ✓ | | | | | | | | | | | | |

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **1534502**

Table #

Acctnum: **PINYONMAZ**

Template: **T205653**

Prelogin: **P947435**

PM: **288 - Daphne Richards**

PB:

Shipped Via:

| Remarks | Sample # (lab only) |
|---------|---------------------|
| | - 11 |
| | - 12 |
| | - 13 |
| | - 14 |
| | - 15 |
| | - 16 |
| | - 17 |
| | - 18 |
| MS/MSD | - 19 |
| | - 20 |

* Matrix: **SS - Soil AIR - Air F - Filter**
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: UPS FedEx Courier Tracking #

Sample Receipt Checklist

COC Seal Present/Intact: NP N

COC Signed/Accurate: N

Bottles arrive intact: N

Correct bottles used: N

Sufficient volume sent: N

If Applicable

VOA Zero Headspace: N

Preservation Correct/Checked: N

RAD Screen <0.5 mR/hr: N

Relinquished by: (Signature) *Ben Boesen* Date: **9/9/22** Time: **1615** Received by: (Signature) *J. Link* Trip Blank Received: **1** Yes/No **HCl/MeOH TBR**

Relinquished by: (Signature) *J. Link* Date: **9/9/22** Time: **1800** Received by: (Signature) Temp: **167** °C Bottles Received: **167** If preservation required by Login: Date/Time

Relinquished by: (Signature) Date: Time: Received for lab by: (Signature) *J. Link* Date: **9-10-22** Time: **0900** Hold: Condition: **NCF** OK

Company Name/Address:
Pinyon Environmental
 4815 E. Carefree Highway
 #108-274
 Cave Creek, AZ 85331

Billing Information:
 Accounts Payable
 3222 S Vance Street
 Suite 200
 Lakewood, CO 80227

Pres
Chk

Analysis / Container / Preservative



MT JULIET, TN

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 constitutes acknowledgment and acceptance of the
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<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

Report to:
Jeremy Musson

Email To: guarnieri@pinyon-env.com; musson@pinyon-env.com

Project Description:
Nammo TTU Groundwater Monitoring

City/State
 Collected: **Mesa, AZ**

Please Circle:
 M T C E T

Phone: **602-290-4774**

Client Project #
722152201.002

Lab Project #
PINYONMAZ-722152201

Collected by (print):
Ben Boesen

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #

Immediately Packed on Ice N Y

Date Results Needed
Standard TAT

No. of Cntrs

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | PERCHLORATE 125mlHDPE-NoPres | V8260AZ 40mlAmb-HCl | V8260LL14D 40mlAmb-HCl |
|--------------------|-----------|----------|-------|--------|------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|
| TTU-17-80-20220908 | | GW | 80 | 9/8/22 | 0947 | 7 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| PF-2-400-20220909 | | GW | 400 | 9/9/22 | 1330 | 6 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Trip Blank | | GW | | | | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Temp Blank | | GW | | | | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | GW | | | | | | | |
| | | GW | | | | | | | |
| | | GW | | | | | | | |
| | | GW | | | | | | | |
| | | GW | | | | | | | |
| | | GW | | | | | | | |

SDG # **1534502**

Table #

Acctnum: **PINYONMAZ**

Template: **T205653**

Prelogin: **P947435**

PM: **288 - Daphne Richards**

PB:

Shipped Via:

Remarks | Sample # (lab only)

-21
-22
-23

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier _____

Tracking #

| Sample Receipt Checklist | |
|-------------------------------|--|
| COC Seal Present/Intact: | <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Bottles arrive intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Sufficient volume sent: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| If Applicable | |
| VOA Zero Headspace: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| RAD Screen <0.5 mR/hr: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

Relinquished by: (Signature)

Date: **9/9/22**
 Time: **1617**

Received by: (Signature)

Trip Blank Received: Yes No
 HCl / MeOH
 TBR

Relinquished by: (Signature)

Date: **9/9/22**
 Time: **1800**

Received by: (Signature)

Temp: _____ °C
 Bottles Received: **167**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
 Time: _____

Received for lab by: (Signature)

Date: **9-10-22**
 Time: **0900**

Hold: _____ Condition: **(OK)**
 NCF

L1534502

| <u>Tracking Numbers</u> | | <u>Temperature</u> |
|-------------------------|--|--------------------|
| 5913 6209 4211 | | NSA7 2.5 |
| 4233 | | NSA7 3.3 |
| | | |
| | | |
| | | |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Pinyon Environmental

Sample Delivery Group: L1545901
Samples Received: 10/13/2022
Project Number: 722152201.002
Description: Nammo TTU Groundwater Monitoring

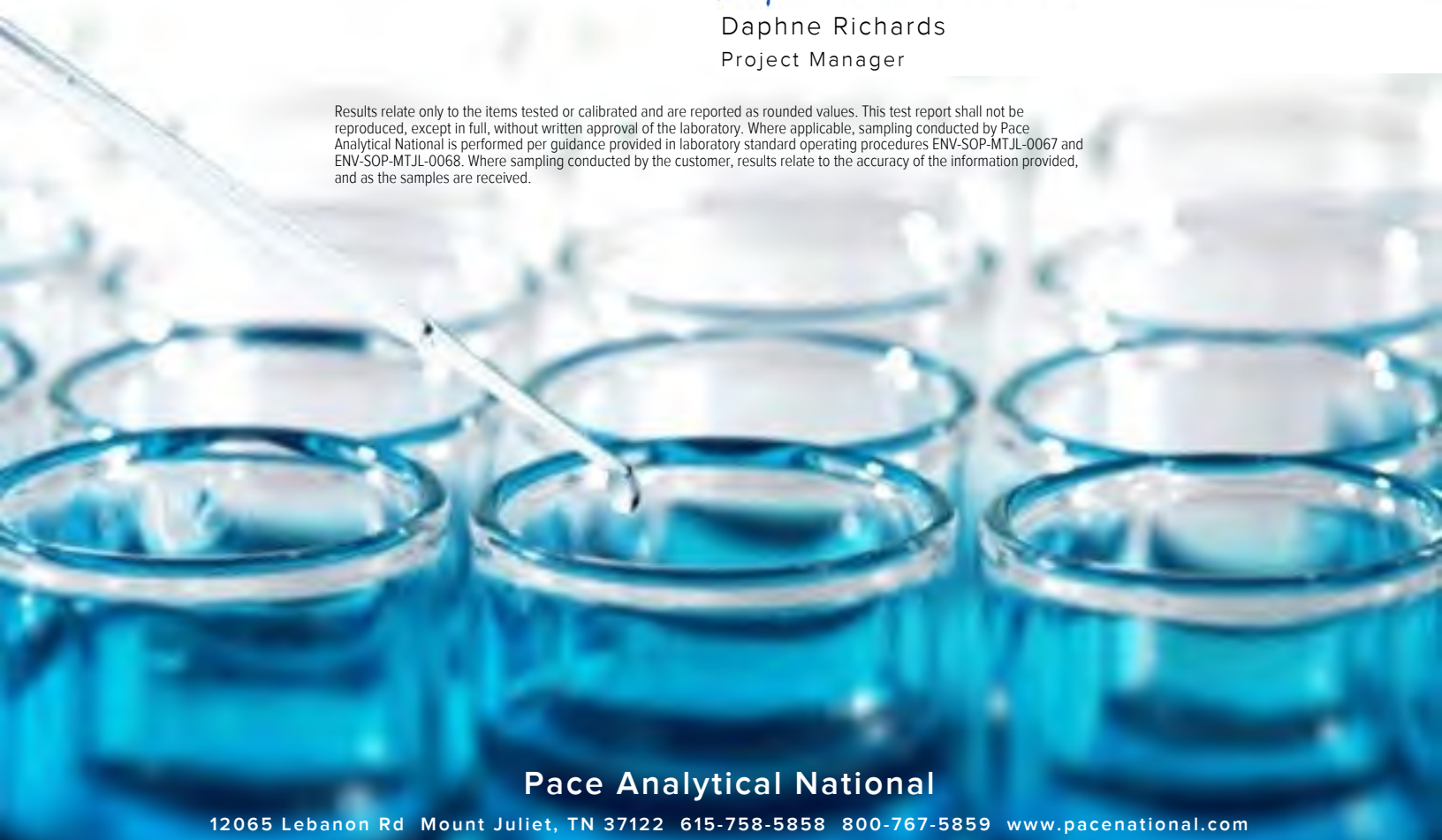
Report To: Jeremy Musson
4815 E. Carefree Highway
#108-274
Cave Creek, AZ 85331

Entire Report Reviewed By:



Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

TTU-2-114-20221010 L1545901-01 GW

Collected by Isabella Foster Collected date/time 10/10/22 15:43 Received date/time 10/13/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1944313 | 5000 | 10/18/22 04:37 | 10/18/22 04:37 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1943510 | 20 | 10/16/22 04:18 | 10/16/22 04:18 | DAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1942212 | 10 | 10/13/22 16:34 | 10/13/22 16:34 | ADM | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

TTU-1-50-20221011 L1545901-02 GW

Collected by Isabella Foster Collected date/time 10/11/22 16:46 Received date/time 10/13/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1944313 | 500 | 10/18/22 03:35 | 10/18/22 03:35 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1943510 | 1 | 10/15/22 23:52 | 10/15/22 23:52 | DAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1942212 | 1 | 10/13/22 15:54 | 10/13/22 15:54 | ADM | Mt. Juliet, TN |

DUP-01 L1545901-03 GW

Collected by Isabella Foster Collected date/time 10/11/22 16:46 Received date/time 10/13/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 314.0 Mod | WG1944313 | 500 | 10/18/22 06:02 | 10/18/22 06:02 | SL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1943510 | 1 | 10/16/22 00:13 | 10/16/22 00:13 | DAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B-SIM | WG1942212 | 1 | 10/13/22 16:14 | 10/13/22 16:14 | ADM | Mt. Juliet, TN |

TRIP BLANK L1545901-04 GW

Collected by Isabella Foster Collected date/time 10/11/22 00:00 Received date/time 10/13/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1943510 | 1 | 10/15/22 23:11 | 10/15/22 23:11 | DAH | Mt. Juliet, TN |

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 157000 | | 1500 | 20000 | 5000 | 10/18/2022 04:37 | WG1944313 |

Sample Narrative:

L1545901-01 WG1944313: 5000x

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | J4 | 226 | 1000 | 20 | 10/16/2022 04:18 | WG1943510 |
| Acrolein | U | J5 | 50.8 | 1000 | 20 | 10/16/2022 04:18 | WG1943510 |
| Acrylonitrile | U | J4 | 13.4 | 200 | 20 | 10/16/2022 04:18 | WG1943510 |
| Benzene | U | | 1.88 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Bromobenzene | U | | 2.36 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Bromodichloromethane | U | | 2.72 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Bromoform | U | | 2.58 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Bromomethane | U | | 12.1 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,3-Butadiene | U | | 5.98 | 40.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| n-Butylbenzene | U | | 3.14 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| sec-Butylbenzene | U | | 2.50 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| tert-Butylbenzene | U | | 2.54 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Carbon tetrachloride | U | | 2.56 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Carbon disulfide | U | J3 | 1.92 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Chlorobenzene | U | | 2.32 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Chlorodibromomethane | U | | 2.80 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Chloroethane | U | | 3.84 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| Chloroform | U | | 2.22 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| Chloromethane | U | | 19.2 | 50.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Cyclohexane | U | | 3.76 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 2-Chlorotoluene | U | | 2.12 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 4-Chlorotoluene | U | | 2.28 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2-Dibromo-3-Chloropropane | U | | 5.52 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2-Dibromoethane | U | | 2.52 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Dibromomethane | U | | 2.44 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2-Dichlorobenzene | U | | 2.14 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,3-Dichlorobenzene | U | | 2.20 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,4-Dichlorobenzene | U | | 2.40 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Dichlorodifluoromethane | U | | 7.48 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1-Dichloroethane | U | | 2.00 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2-Dichloroethane | U | | 1.64 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1-Dichloroethene | 86.3 | | 3.76 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| cis-1,2-Dichloroethene | U | | 2.52 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| trans-1,2-Dichloroethene | U | J3 | 2.98 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2-Dichloropropane | U | | 2.98 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1-Dichloropropene | U | | 2.84 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,3-Dichloropropane | U | | 2.20 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| cis-1,3-Dichloropropene | U | | 2.22 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| trans-1,3-Dichloropropene | U | | 2.36 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 2,2-Dichloropropane | U | | 3.22 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Dicyclopentadiene | U | | 5.06 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Di-isopropyl ether | U | | 2.10 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Ethylbenzene | U | | 2.74 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 4-Ethyltoluene | U | | 4.16 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Hexachloro-1,3-butadiene | U | | 6.74 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| n-Hexane | U | J4 | 15.0 | 200 | 20 | 10/16/2022 04:18 | WG1943510 |
| Isopropylbenzene | U | | 2.10 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| p-Isopropyltoluene | U | | 2.40 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 2-Butanone (MEK) | U | | 23.8 | 200 | 20 | 10/16/2022 04:18 | WG1943510 |
| Methyl Cyclohexane | U | | 13.2 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Methylene Chloride | U | | 8.60 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| 4-Methyl-2-pentanone (MIBK) | U | | 9.56 | 200 | 20 | 10/16/2022 04:18 | WG1943510 |
| Methyl tert-butyl ether | U | | 2.02 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Naphthalene | U | | 20.0 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| Propene | U | | 18.7 | 50.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| n-Propylbenzene | U | | 1.99 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Styrene | U | | 2.36 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1,1,2-Tetrachloroethane | U | | 2.94 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1,2,2-Tetrachloroethane | U | | 2.66 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1,2-Trichlorotrifluoroethane | U | | 3.60 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Tetrachloroethene | U | | 6.00 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Toluene | U | | 5.56 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2,3-Trichlorobenzene | U | | 4.60 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2,4-Trichlorobenzene | U | | 9.62 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1,1-Trichloroethane | U | | 2.98 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,1,2-Trichloroethane | U | | 3.16 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Trichloroethene | 596 | <u>V</u> | 3.80 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Trichlorofluoromethane | U | | 3.20 | 100 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2,3-Trichloropropane | U | | 4.74 | 50.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2,4-Trimethylbenzene | U | | 6.44 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,2,3-Trimethylbenzene | U | | 2.08 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| 1,3,5-Trimethylbenzene | U | | 2.08 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Vinyl chloride | U | | 4.68 | 20.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| Xylenes, Total | U | | 3.48 | 60.0 | 20 | 10/16/2022 04:18 | WG1943510 |
| (S) Toluene-d8 | 111 | | | 80.0-120 | | 10/16/2022 04:18 | WG1943510 |
| (S) 4-Bromofluorobenzene | 92.0 | | | 77.0-126 | | 10/16/2022 04:18 | WG1943510 |
| (S) 1,2-Dichloroethane-d4 | 125 | | | 70.0-130 | | 10/16/2022 04:18 | WG1943510 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Sample Narrative:

L1545901-01 WG1943510: Non-target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 170 | | 5.97 | 30.0 | 10 | 10/13/2022 16:34 | WG1942212 |
| (S) Toluene-d8 | 97.8 | | | 77.0-127 | | 10/13/2022 16:34 | WG1942212 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 11300 | | 150 | 2000 | 500 | 10/18/2022 03:35 | WG1944313 |

Sample Narrative:

L1545901-02 WG1944313: 500x

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | J4 | 11.3 | 50.0 | 1 | 10/15/2022 23:52 | WG1943510 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 10/15/2022 23:52 | WG1943510 |
| Acrylonitrile | U | J4 | 0.671 | 10.0 | 1 | 10/15/2022 23:52 | WG1943510 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 10/15/2022 23:52 | WG1943510 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Dichlorodifluoromethane | U | J3 | 0.374 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1-Dichloroethene | 1.06 | | 0.188 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| n-Hexane | U | J4 | 0.749 | 10.0 | 1 | 10/15/2022 23:52 | WG1943510 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 10/15/2022 23:52 | WG1943510 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 10/15/2022 23:52 | WG1943510 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Propene | U | J3 | 0.936 | 2.50 | 1 | 10/15/2022 23:52 | WG1943510 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Styrene | U | | 0.118 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Toluene | U | | 0.278 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Trichloroethene | 5.13 | | 0.190 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Vinyl chloride | U | J3 | 0.234 | 1.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 10/15/2022 23:52 | WG1943510 |
| (S) Toluene-d8 | 111 | | | 80.0-120 | | 10/15/2022 23:52 | WG1943510 |
| (S) 4-Bromofluorobenzene | 93.9 | | | 77.0-126 | | 10/15/2022 23:52 | WG1943510 |
| (S) 1,2-Dichloroethane-d4 | 127 | | | 70.0-130 | | 10/15/2022 23:52 | WG1943510 |



Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 15.1 | | 0.597 | 3.00 | 1 | 10/13/2022 15:54 | WG1942212 |
| (S) Toluene-d8 | 101 | | | 77.0-127 | | 10/13/2022 15:54 | WG1942212 |

Wet Chemistry by Method 314.0 Mod

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Perchlorate | 11200 | | 150 | 2000 | 500 | 10/18/2022 06:02 | WG1944313 |

Sample Narrative:

L1545901-03 WG1944313: 500x

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|--------------------|--------|------|----------|------------------|---------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | J4 | 11.3 | 50.0 | 1 | 10/16/2022 00:13 | WG1943510 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 10/16/2022 00:13 | WG1943510 |
| Acrylonitrile | U | J4 | 0.671 | 10.0 | 1 | 10/16/2022 00:13 | WG1943510 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 10/16/2022 00:13 | WG1943510 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Dichlorodifluoromethane | U | J3 | 0.374 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1-Dichloroethene | 1.26 | | 0.188 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| n-Hexane | U | J4 | 0.749 | 10.0 | 1 | 10/16/2022 00:13 | WG1943510 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 10/16/2022 00:13 | WG1943510 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 10/16/2022 00:13 | WG1943510 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Propene | U | J3 | 0.936 | 2.50 | 1 | 10/16/2022 00:13 | WG1943510 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Styrene | U | | 0.118 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Toluene | U | | 0.278 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Trichloroethene | 5.85 | | 0.190 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Vinyl chloride | U | J3 | 0.234 | 1.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 10/16/2022 00:13 | WG1943510 |
| (S) Toluene-d8 | 109 | | | 80.0-120 | | 10/16/2022 00:13 | WG1943510 |
| (S) 4-Bromofluorobenzene | 92.1 | | | 77.0-126 | | 10/16/2022 00:13 | WG1943510 |
| (S) 1,2-Dichloroethane-d4 | 129 | | | 70.0-130 | | 10/16/2022 00:13 | WG1943510 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|----------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,4-Dioxane | 14.5 | | 0.597 | 3.00 | 1 | 10/13/2022 16:14 | WG1942212 |
| (S) Toluene-d8 | 101 | | | 77.0-127 | | 10/13/2022 16:14 | WG1942212 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------------------|--------|-----------|--------|------|----------|------------------|-----------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | J4 | 11.3 | 50.0 | 1 | 10/15/2022 23:11 | WG1943510 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 10/15/2022 23:11 | WG1943510 |
| Acrylonitrile | U | J4 | 0.671 | 10.0 | 1 | 10/15/2022 23:11 | WG1943510 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,3-Butadiene | U | | 0.299 | 2.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 10/15/2022 23:11 | WG1943510 |
| Cyclohexane | U | | 0.188 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Dichlorodifluoromethane | U | J3 | 0.374 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Dicyclopentadiene | U | | 0.253 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| n-Hexane | U | J4 | 0.749 | 10.0 | 1 | 10/15/2022 23:11 | WG1943510 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 10/15/2022 23:11 | WG1943510 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Methylene Chloride | U | | 0.430 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 10/15/2022 23:11 | WG1943510 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Propene | U | J3 | 0.936 | 2.50 | 1 | 10/15/2022 23:11 | WG1943510 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

TRIP BLANK

SAMPLE RESULTS - 04

Collected date/time: 10/11/22 00:00

L1545901

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Styrene | U | | 0.118 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Toluene | 0.289 | <u>J</u> | 0.278 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Vinyl chloride | U | <u>J3</u> | 0.234 | 1.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 10/15/2022 23:11 | WG1943510 |
| (S) Toluene-d8 | 109 | | | 80.0-120 | | 10/15/2022 23:11 | WG1943510 |
| (S) 4-Bromofluorobenzene | 93.8 | | | 77.0-126 | | 10/15/2022 23:11 | WG1943510 |
| (S) 1,2-Dichloroethane-d4 | 127 | | | 70.0-130 | | 10/15/2022 23:11 | WG1943510 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3850102-1 10/18/22 00:45

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-------------|-------------------|--------------|----------------|----------------|
| Perchlorate | U | | 0.300 | 4.00 |

1 Cp

2 Tc

3 Ss

L1545901-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1545901-02 10/18/22 03:35 • (DUP) R3850102-5 10/18/22 04:06

| Analyte | Original Result ug/l | DUP Result ug/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits |
|-------------|-------------------------|--------------------|----------|--------------|---------------|-------------------|
| Perchlorate | 11300 | 11300 | 500 | 0.265 | | 15 |

4 Cn

5 Sr

Sample Narrative:

OS: 500x

6 Qc

7 Is

Laboratory Control Sample (LCS)

(LCS) R3850102-2 10/18/22 01:41

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|----------------------|--------------------|---------------|------------------|---------------|
| Perchlorate | 10.0 | 9.52 | 95.2 | 90.0-110 | |

8 Gl

9 Al

L1545901-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1545901-01 10/18/22 04:37 • (MS) R3850102-3 10/18/22 02:38 • (MSD) R3850102-4 10/18/22 03:07

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Perchlorate | 50000 | 157000 | 200000 | 202000 | 87.4 | 90.1 | 5000 | 80.0-120 | | | 0.673 | 15 |

10 Sc

Sample Narrative:

OS: 5000x

Method Blank (MB)

(MB) R3850916-3 10/15/22 21:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| 1,3-Butadiene | U | | 0.299 | 2.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Carbon disulfide | U | | 0.0962 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| Cyclohexane | U | | 0.188 | 1.00 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3850916-3 10/15/22 21:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Dicyclopentadiene | U | | 0.253 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |
| 4-Ethyltoluene | U | | 0.208 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |
| n-Hexane | U | | 0.749 | 10.0 |
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methyl Cyclohexane | U | | 0.660 | 1.00 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| Propene | U | | 0.936 | 2.50 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| (S) Toluene-d8 | 111 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 92.0 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 125 | | | 70.0-130 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3850916-1 10/15/22 20:57 • (LCSD) R3850916-2 10/15/22 21:17

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone | 25.0 | 39.6 | 46.0 | 158 | 184 | 19.0-160 | | J4 | 15.0 | 27 |
| Acrolein | 25.0 | 27.5 | 29.9 | 110 | 120 | 30.0-160 | | | 8.36 | 26 |
| Acrylonitrile | 25.0 | 35.7 | 38.3 | 143 | 153 | 55.0-149 | | J4 | 7.03 | 20 |
| Benzene | 5.00 | 4.70 | 5.04 | 94.0 | 101 | 70.0-123 | | | 6.98 | 20 |
| Bromobenzene | 5.00 | 4.39 | 4.56 | 87.8 | 91.2 | 73.0-121 | | | 3.80 | 20 |
| Bromodichloromethane | 5.00 | 4.59 | 4.82 | 91.8 | 96.4 | 75.0-120 | | | 4.89 | 20 |
| Bromoform | 5.00 | 4.14 | 4.31 | 82.8 | 86.2 | 68.0-132 | | | 4.02 | 20 |
| Bromomethane | 5.00 | 3.19 | 3.63 | 63.8 | 72.6 | 30.0-160 | | | 12.9 | 25 |
| 1,3-Butadiene | 5.00 | 2.74 | 3.28 | 54.8 | 65.6 | 45.0-147 | | | 17.9 | 20 |
| n-Butylbenzene | 5.00 | 4.37 | 4.87 | 87.4 | 97.4 | 73.0-125 | | | 10.8 | 20 |
| sec-Butylbenzene | 5.00 | 4.19 | 4.61 | 83.8 | 92.2 | 75.0-125 | | | 9.55 | 20 |
| tert-Butylbenzene | 5.00 | 4.09 | 4.40 | 81.8 | 88.0 | 76.0-124 | | | 7.30 | 20 |
| Carbon tetrachloride | 5.00 | 4.47 | 5.07 | 89.4 | 101 | 68.0-126 | | | 12.6 | 20 |
| Carbon disulfide | 5.00 | 4.01 | 4.66 | 80.2 | 93.2 | 61.0-128 | | | 15.0 | 20 |
| Chlorobenzene | 5.00 | 4.64 | 4.92 | 92.8 | 98.4 | 80.0-121 | | | 5.86 | 20 |
| Chlorodibromomethane | 5.00 | 4.35 | 4.44 | 87.0 | 88.8 | 77.0-125 | | | 2.05 | 20 |
| Chloroethane | 5.00 | 4.13 | 4.88 | 82.6 | 97.6 | 47.0-150 | | | 16.6 | 20 |
| Chloroform | 5.00 | 4.65 | 5.06 | 93.0 | 101 | 73.0-120 | | | 8.44 | 20 |
| Chloromethane | 5.00 | 5.82 | 6.54 | 116 | 131 | 41.0-142 | | | 11.7 | 20 |
| Cyclohexane | 5.00 | 4.14 | 4.94 | 82.8 | 98.8 | 71.0-124 | | | 17.6 | 20 |
| 2-Chlorotoluene | 5.00 | 4.36 | 4.61 | 87.2 | 92.2 | 76.0-123 | | | 5.57 | 20 |
| 4-Chlorotoluene | 5.00 | 4.24 | 4.48 | 84.8 | 89.6 | 75.0-122 | | | 5.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.36 | 4.59 | 87.2 | 91.8 | 58.0-134 | | | 5.14 | 20 |
| 1,2-Dibromoethane | 5.00 | 4.56 | 4.75 | 91.2 | 95.0 | 80.0-122 | | | 4.08 | 20 |
| Dibromomethane | 5.00 | 4.88 | 5.13 | 97.6 | 103 | 80.0-120 | | | 5.00 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 4.85 | 5.07 | 97.0 | 101 | 79.0-121 | | | 4.44 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 4.59 | 4.87 | 91.8 | 97.4 | 79.0-120 | | | 5.92 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 4.73 | 4.92 | 94.6 | 98.4 | 79.0-120 | | | 3.94 | 20 |
| Dichlorodifluoromethane | 5.00 | 4.26 | 5.40 | 85.2 | 108 | 51.0-149 | | J3 | 23.6 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.48 | 6.08 | 110 | 122 | 70.0-126 | | | 10.4 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.87 | 6.09 | 117 | 122 | 70.0-128 | | | 3.68 | 20 |
| 1,1-Dichloroethene | 5.00 | 4.09 | 4.80 | 81.8 | 96.0 | 71.0-124 | | | 16.0 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 4.57 | 4.86 | 91.4 | 97.2 | 73.0-120 | | | 6.15 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 4.42 | 4.95 | 88.4 | 99.0 | 73.0-120 | | | 11.3 | 20 |
| 1,2-Dichloropropane | 5.00 | 5.92 | 6.14 | 118 | 123 | 77.0-125 | | | 3.65 | 20 |
| 1,1-Dichloropropene | 5.00 | 4.62 | 5.20 | 92.4 | 104 | 74.0-126 | | | 11.8 | 20 |
| 1,3-Dichloropropane | 5.00 | 4.91 | 4.88 | 98.2 | 97.6 | 80.0-120 | | | 0.613 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 4.38 | 4.62 | 87.6 | 92.4 | 80.0-123 | | | 5.33 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 4.35 | 4.35 | 87.0 | 87.0 | 78.0-124 | | | 0.000 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.05 | 4.48 | 81.0 | 89.6 | 58.0-130 | | | 10.1 | 20 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3850916-1 10/15/22 20:57 • (LCSD) R3850916-2 10/15/22 21:17

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Dicyclopentadiene | 5.00 | 4.76 | 5.13 | 95.2 | 103 | 74.0-126 | | | 7.48 | 20 |
| Di-isopropyl ether | 5.00 | 5.76 | 6.11 | 115 | 122 | 58.0-138 | | | 5.90 | 20 |
| Ethylbenzene | 5.00 | 4.39 | 4.69 | 87.8 | 93.8 | 79.0-123 | | | 6.61 | 20 |
| 4-Ethyltoluene | 5.00 | 4.04 | 4.36 | 80.8 | 87.2 | 74.0-127 | | | 7.62 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 4.01 | 4.39 | 80.2 | 87.8 | 54.0-138 | | | 9.05 | 20 |
| n-Hexane | 5.00 | 5.83 | 6.88 | 117 | 138 | 57.0-133 | | J4 | 16.5 | 20 |
| Isopropylbenzene | 5.00 | 4.37 | 4.78 | 87.4 | 95.6 | 76.0-127 | | | 8.96 | 20 |
| p-Isopropyltoluene | 5.00 | 4.14 | 4.46 | 82.8 | 89.2 | 76.0-125 | | | 7.44 | 20 |
| 2-Butanone (MEK) | 25.0 | 32.0 | 34.6 | 128 | 138 | 44.0-160 | | | 7.81 | 20 |
| Methyl Cyclohexane | 5.00 | 4.33 | 4.99 | 86.6 | 99.8 | 68.0-126 | | | 14.2 | 20 |
| Methylene Chloride | 5.00 | 4.36 | 4.68 | 87.2 | 93.6 | 67.0-120 | | | 7.08 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 30.4 | 31.6 | 122 | 126 | 68.0-142 | | | 3.87 | 20 |
| Methyl tert-butyl ether | 5.00 | 4.87 | 5.18 | 97.4 | 104 | 68.0-125 | | | 6.17 | 20 |
| Naphthalene | 5.00 | 3.86 | 4.24 | 77.2 | 84.8 | 54.0-135 | | | 9.38 | 20 |
| Propene | 5.00 | 2.02 | 2.55 | 40.4 | 51.0 | 30.0-160 | | J3 | 23.2 | 20 |
| n-Propylbenzene | 5.00 | 4.15 | 4.48 | 83.0 | 89.6 | 77.0-124 | | | 7.65 | 20 |
| Styrene | 5.00 | 4.28 | 4.22 | 85.6 | 84.4 | 73.0-130 | | | 1.41 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.76 | 4.92 | 95.2 | 98.4 | 75.0-125 | | | 3.31 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.15 | 4.45 | 83.0 | 89.0 | 65.0-130 | | | 6.98 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 4.23 | 4.88 | 84.6 | 97.6 | 69.0-132 | | | 14.3 | 20 |
| Tetrachloroethene | 5.00 | 4.45 | 4.90 | 89.0 | 98.0 | 72.0-132 | | | 9.63 | 20 |
| Toluene | 5.00 | 4.59 | 4.82 | 91.8 | 96.4 | 79.0-120 | | | 4.89 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 3.81 | 4.12 | 76.2 | 82.4 | 50.0-138 | | | 7.82 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 4.02 | 4.49 | 80.4 | 89.8 | 57.0-137 | | | 11.0 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 4.58 | 5.05 | 91.6 | 101 | 73.0-124 | | | 9.76 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 4.73 | 4.67 | 94.6 | 93.4 | 80.0-120 | | | 1.28 | 20 |
| Trichloroethene | 5.00 | 5.01 | 5.25 | 100 | 105 | 78.0-124 | | | 4.68 | 20 |
| Trichlorofluoromethane | 5.00 | 3.28 | 3.98 | 65.6 | 79.6 | 59.0-147 | | | 19.3 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.79 | 5.00 | 95.8 | 100 | 73.0-130 | | | 4.29 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 4.15 | 4.36 | 83.0 | 87.2 | 76.0-121 | | | 4.94 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.50 | 4.79 | 90.0 | 95.8 | 77.0-120 | | | 6.24 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 4.09 | 4.45 | 81.8 | 89.0 | 76.0-122 | | | 8.43 | 20 |
| Vinyl chloride | 5.00 | 4.33 | 5.36 | 86.6 | 107 | 67.0-131 | | J3 | 21.3 | 20 |
| Xylenes, Total | 15.0 | 13.4 | 14.2 | 89.3 | 94.7 | 79.0-123 | | | 5.80 | 20 |
| (S) Toluene-d8 | | | | 108 | 105 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 94.8 | 94.3 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 126 | 126 | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1545901-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1545901-01 10/16/22 04:18 • (MS) R3850916-4 10/16/22 06:00 • (MSD) R3850916-5 10/16/22 06:20

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Acetone | 500 | U | 709 | 613 | 142 | 123 | 20 | 10.0-160 | | | 14.5 | 35 |
| Acrolein | 500 | U | 919 | 912 | 184 | 182 | 20 | 10.0-160 | J5 | J5 | 0.765 | 39 |
| Acrylonitrile | 500 | U | 625 | 508 | 125 | 102 | 20 | 21.0-160 | | | 20.7 | 32 |
| Benzene | 100 | U | 61.8 | 70.9 | 61.8 | 70.9 | 20 | 17.0-158 | | | 13.7 | 27 |
| Bromobenzene | 100 | U | 57.5 | 58.9 | 57.5 | 58.9 | 20 | 30.0-149 | | | 2.41 | 28 |
| Bromodichloromethane | 100 | U | 61.1 | 65.9 | 61.1 | 65.9 | 20 | 31.0-150 | | | 7.56 | 27 |
| Bromoform | 100 | U | 61.3 | 57.3 | 61.3 | 57.3 | 20 | 29.0-150 | | | 6.75 | 29 |
| Bromomethane | 100 | U | 40.0 | 46.4 | 40.0 | 46.4 | 20 | 10.0-160 | | | 14.8 | 38 |
| 1,3-Butadiene | 100 | U | 43.5 | 49.8 | 43.5 | 49.8 | 20 | 10.0-160 | | | 13.5 | 22 |
| n-Butylbenzene | 100 | U | 53.1 | 58.0 | 53.1 | 58.0 | 20 | 31.0-150 | | | 8.82 | 30 |
| sec-Butylbenzene | 100 | U | 53.4 | 58.1 | 53.4 | 58.1 | 20 | 33.0-155 | | | 8.43 | 29 |
| tert-Butylbenzene | 100 | U | 51.6 | 56.3 | 51.6 | 56.3 | 20 | 34.0-153 | | | 8.71 | 28 |
| Carbon tetrachloride | 100 | U | 57.1 | 66.0 | 57.1 | 66.0 | 20 | 23.0-159 | | | 14.5 | 28 |
| Carbon disulfide | 100 | U | 41.0 | 56.7 | 41.0 | 56.7 | 20 | 10.0-156 | | J3 | 32.1 | 28 |
| Chlorobenzene | 100 | U | 61.8 | 67.1 | 61.8 | 67.1 | 20 | 33.0-152 | | | 8.22 | 27 |
| Chlorodibromomethane | 100 | U | 60.6 | 61.9 | 60.6 | 61.9 | 20 | 37.0-149 | | | 2.12 | 27 |
| Chloroethane | 100 | U | 55.1 | 63.4 | 55.1 | 63.4 | 20 | 10.0-160 | | | 14.0 | 30 |
| Chloroform | 100 | U | 65.2 | 72.9 | 65.2 | 72.9 | 20 | 29.0-154 | | | 11.2 | 28 |
| Chloromethane | 100 | U | 67.8 | 72.5 | 67.8 | 72.5 | 20 | 10.0-160 | | | 6.70 | 29 |
| Cyclohexane | 100 | U | 49.1 | 58.2 | 49.1 | 58.2 | 20 | 19.0-160 | | | 17.0 | 23 |
| 2-Chlorotoluene | 100 | U | 55.9 | 61.2 | 55.9 | 61.2 | 20 | 32.0-153 | | | 9.05 | 28 |
| 4-Chlorotoluene | 100 | U | 52.8 | 56.6 | 52.8 | 56.6 | 20 | 32.0-150 | | | 6.95 | 28 |
| 1,2-Dibromo-3-Chloropropane | 100 | U | 72.3 | 58.8 | 72.3 | 58.8 | 20 | 22.0-151 | | | 20.6 | 34 |
| 1,2-Dibromoethane | 100 | U | 65.0 | 65.2 | 65.0 | 65.2 | 20 | 34.0-147 | | | 0.307 | 27 |
| Dibromomethane | 100 | U | 67.1 | 69.9 | 67.1 | 69.9 | 20 | 30.0-151 | | | 4.09 | 27 |
| 1,2-Dichlorobenzene | 100 | U | 66.4 | 64.4 | 66.4 | 64.4 | 20 | 34.0-149 | | | 3.06 | 28 |
| 1,3-Dichlorobenzene | 100 | U | 61.6 | 62.9 | 61.6 | 62.9 | 20 | 36.0-146 | | | 2.09 | 27 |
| 1,4-Dichlorobenzene | 100 | U | 62.2 | 64.8 | 62.2 | 64.8 | 20 | 35.0-142 | | | 4.09 | 27 |
| Dichlorodifluoromethane | 100 | U | 48.3 | 54.3 | 48.3 | 54.3 | 20 | 10.0-160 | | | 11.7 | 29 |
| 1,1-Dichloroethane | 100 | U | 69.3 | 85.1 | 69.3 | 85.1 | 20 | 25.0-158 | | | 20.5 | 27 |
| 1,2-Dichloroethane | 100 | U | 81.4 | 82.6 | 81.4 | 82.6 | 20 | 29.0-151 | | | 1.46 | 27 |
| 1,1-Dichloroethene | 100 | 86.3 | 120 | 151 | 33.7 | 64.7 | 20 | 11.0-160 | | | 22.9 | 29 |
| cis-1,2-Dichloroethene | 100 | U | 60.9 | 70.1 | 60.9 | 70.1 | 20 | 10.0-160 | | | 14.0 | 27 |
| trans-1,2-Dichloroethene | 100 | U | 49.5 | 66.6 | 49.5 | 66.6 | 20 | 17.0-153 | | J3 | 29.5 | 27 |
| 1,2-Dichloropropane | 100 | U | 79.4 | 85.7 | 79.4 | 85.7 | 20 | 30.0-156 | | | 7.63 | 27 |
| 1,1-Dichloropropene | 100 | U | 52.4 | 66.9 | 52.4 | 66.9 | 20 | 25.0-158 | | | 24.3 | 27 |
| 1,3-Dichloropropane | 100 | U | 68.6 | 66.6 | 68.6 | 66.6 | 20 | 38.0-147 | | | 2.96 | 27 |
| cis-1,3-Dichloropropene | 100 | U | 57.5 | 60.1 | 57.5 | 60.1 | 20 | 34.0-149 | | | 4.42 | 28 |
| trans-1,3-Dichloropropene | 100 | U | 58.2 | 59.4 | 58.2 | 59.4 | 20 | 32.0-149 | | | 2.04 | 28 |
| 2,2-Dichloropropane | 100 | U | 62.2 | 69.8 | 62.2 | 69.8 | 20 | 24.0-152 | | | 11.5 | 29 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

L1545901-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1545901-01 10/16/22 04:18 • (MS) R3850916-4 10/16/22 06:00 • (MSD) R3850916-5 10/16/22 06:20

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|--------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Dicyclopentadiene | 100 | U | 61.7 | 65.7 | 61.7 | 65.7 | 20 | 51.0-139 | | | 6.28 | 20 |
| Di-isopropyl ether | 100 | U | 76.3 | 80.8 | 76.3 | 80.8 | 20 | 21.0-160 | | | 5.73 | 28 |
| Ethylbenzene | 100 | U | 55.6 | 64.0 | 55.6 | 64.0 | 20 | 30.0-155 | | | 14.0 | 27 |
| 4-Ethyltoluene | 100 | U | 50.1 | 53.4 | 50.1 | 53.4 | 20 | 10.0-160 | | | 6.38 | 20 |
| Hexachloro-1,3-butadiene | 100 | U | 48.9 | 51.4 | 48.9 | 51.4 | 20 | 20.0-154 | | | 4.99 | 34 |
| n-Hexane | 100 | U | 58.6 | 77.2 | 58.6 | 77.2 | 20 | 10.0-153 | | | 27.4 | 28 |
| Isopropylbenzene | 100 | U | 55.7 | 63.5 | 55.7 | 63.5 | 20 | 28.0-157 | | | 13.1 | 27 |
| p-Isopropyltoluene | 100 | U | 51.2 | 55.0 | 51.2 | 55.0 | 20 | 30.0-154 | | | 7.16 | 29 |
| 2-Butanone (MEK) | 500 | U | 511 | 476 | 102 | 95.2 | 20 | 10.0-160 | | | 7.09 | 32 |
| Methyl Cyclohexane | 100 | U | 48.3 | 60.2 | 48.3 | 60.2 | 20 | 11.0-160 | | | 21.9 | 24 |
| Methylene Chloride | 100 | U | 54.1 | 64.1 | 54.1 | 64.1 | 20 | 23.0-144 | | | 16.9 | 28 |
| 4-Methyl-2-pentanone (MIBK) | 500 | U | 492 | 423 | 98.4 | 84.6 | 20 | 29.0-160 | | | 15.1 | 29 |
| Methyl tert-butyl ether | 100 | U | 64.5 | 68.0 | 64.5 | 68.0 | 20 | 28.0-150 | | | 5.28 | 29 |
| Naphthalene | 100 | U | 57.3 | 50.9 | 57.3 | 50.9 | 20 | 12.0-156 | | | 11.8 | 35 |
| Propene | 100 | U | 45.3 | 48.1 | 45.3 | 48.1 | 20 | 10.0-160 | | | 6.00 | 29 |
| n-Propylbenzene | 100 | U | 51.2 | 56.0 | 51.2 | 56.0 | 20 | 31.0-154 | | | 8.96 | 28 |
| Styrene | 100 | U | 52.9 | 57.1 | 52.9 | 57.1 | 20 | 33.0-155 | | | 7.64 | 28 |
| 1,1,1,2-Tetrachloroethane | 100 | U | 63.9 | 68.0 | 63.9 | 68.0 | 20 | 36.0-151 | | | 6.22 | 29 |
| 1,1,2,2-Tetrachloroethane | 100 | U | 73.9 | 62.9 | 73.9 | 62.9 | 20 | 33.0-150 | | | 16.1 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 100 | U | 48.0 | 59.6 | 48.0 | 59.6 | 20 | 23.0-160 | | | 21.6 | 30 |
| Tetrachloroethene | 100 | U | 55.4 | 61.9 | 55.4 | 61.9 | 20 | 10.0-160 | | | 11.1 | 27 |
| Toluene | 100 | U | 59.2 | 66.2 | 59.2 | 66.2 | 20 | 26.0-154 | | | 11.2 | 28 |
| 1,2,3-Trichlorobenzene | 100 | U | 56.3 | 52.2 | 56.3 | 52.2 | 20 | 17.0-150 | | | 7.56 | 36 |
| 1,2,4-Trichlorobenzene | 100 | U | 54.2 | 51.9 | 54.2 | 51.9 | 20 | 24.0-150 | | | 4.34 | 33 |
| 1,1,1-Trichloroethane | 100 | U | 56.7 | 70.8 | 56.7 | 70.8 | 20 | 23.0-160 | | | 22.1 | 28 |
| 1,1,2-Trichloroethane | 100 | U | 70.5 | 68.4 | 70.5 | 68.4 | 20 | 35.0-147 | | | 3.02 | 27 |
| Trichloroethene | 100 | 596 | 595 | 676 | 0.000 | 80.0 | 20 | 10.0-160 | ✓ | | 12.7 | 25 |
| Trichlorofluoromethane | 100 | U | 41.4 | 47.0 | 41.4 | 47.0 | 20 | 17.0-160 | | | 12.7 | 31 |
| 1,2,3-Trichloropropane | 100 | U | 72.2 | 64.8 | 72.2 | 64.8 | 20 | 34.0-151 | | | 10.8 | 29 |
| 1,2,4-Trimethylbenzene | 100 | U | 51.5 | 54.7 | 51.5 | 54.7 | 20 | 26.0-154 | | | 6.03 | 27 |
| 1,2,3-Trimethylbenzene | 100 | U | 59.6 | 61.0 | 59.6 | 61.0 | 20 | 32.0-149 | | | 2.32 | 28 |
| 1,3,5-Trimethylbenzene | 100 | U | 51.5 | 54.2 | 51.5 | 54.2 | 20 | 28.0-153 | | | 5.11 | 27 |
| Vinyl chloride | 100 | U | 53.9 | 66.3 | 53.9 | 66.3 | 20 | 10.0-160 | | | 20.6 | 27 |
| Xylenes, Total | 300 | U | 167 | 188 | 55.7 | 62.7 | 20 | 29.0-154 | | | 11.8 | 28 |
| (S) Toluene-d8 | | | | | 107 | 108 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 93.4 | 96.5 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 126 | 125 | | 70.0-130 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

Method Blank (MB)

(MB) R3849991-3 10/13/22 12:55

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------|-----------|--------------|--------|----------|
| 1,4-Dioxane | U | | 0.597 | 3.00 |
| (S) Toluene-d8 | 102 | | | 77.0-127 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3849991-1 10/13/22 11:54 • (LCSD) R3849991-2 10/13/22 12:14

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| 1,4-Dioxane | 50.0 | 51.5 | 63.3 | 103 | 127 | 55.0-138 | | | 20.6 | 24 |
| (S) Toluene-d8 | | | | 103 | 98.4 | 77.0-127 | | | | |

L1545901-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1545901-01 10/13/22 16:34 • (MS) R3849991-4 10/13/22 16:54 • (MSD) R3849991-5 10/13/22 17:14

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| 1,4-Dioxane | 500 | 170 | 808 | 735 | 128 | 113 | 10 | 13.0-160 | | | 9.46 | 31 |
| (S) Toluene-d8 | | | | | 103 | 101 | | 77.0-127 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS35 • File ID: 1015_26

10/15/22 20:57

| Sample ID | File ID | 8260-FLUOROBENZENE Response | 8260-CHLOROBENZENE-D5 Response | 8260-1,4-DICHLOROBENZENE-D4 Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard | 1015_26 | 354563 | 145568 | 131097 |
| Upper Limit | | 709126 | 291136 | 262194 |
| Lower Limit | | 177282 | 72784 | 65549 |
| LCS R3850916-1 WG1943510 1x | 1015_26LCS | 354563 | 145568 | 131097 |
| LCSD R3850916-2 WG1943510 1x | 1015_27 | 348456 | 146840 | 134311 |
| BLANK R3850916-3 WG1943510 1x | 1015_29 | 340889 | 133913 | 115563 |
| L1545901-04 WG1943510 1x | 1015_30 | 345976 | 137945 | 124727 |
| L1545901-02 WG1943510 1x | 1015_32 | 344809 | 135874 | 119553 |
| L1545901-03 WG1943510 1x | 1015_33 | 335447 | 135281 | 120155 |
| L1545901-01 WG1943510 20x | 1015_45 | 338238 | 135961 | 122068 |
| MS R3850916-4 WG1943510 20x | 1015_50 | 347782 | 143646 | 128325 |
| MSD R3850916-5 WG1943510 20x | 1015_51 | 356642 | 145023 | 133783 |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS27 • File ID: 1013_04

10/13/22 11:34

| Sample ID | File ID | 8260-FLUOROBENZENE Response |
|-------------------------------|---------|--------------------------------|
| Standard | 1013_04 | 689397 |
| Upper Limit | | 1378794 |
| Lower Limit | | 344699 |
| LCS R3849991-1 WG1942212 1x | 1013_05 | 805994 |
| LCSD R3849991-2 WG1942212 1x | 1013_06 | 614738 |
| BLANK R3849991-3 WG1942212 1x | 1013_08 | 834076 |
| L1545901-02 WG1942212 1x | 1013_12 | 714419 |
| L1545901-03 WG1942212 1x | 1013_13 | 764367 |
| L1545901-01 WG1942212 10x | 1013_14 | 941245 |
| MS R3849991-4 WG1942212 10x | 1013_15 | 692064 |
| MSD R3849991-5 WG1942212 10x | 1013_16 | 744768 |

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Is
- ⁸Gl
- ⁹Al
- ¹⁰Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|-----------|--|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



4815 E. Carefree Highway #108-274 Cave Creek, AZ 85331

Email To: funk@pinyon-env.com;guarnieri@pinyon-

Pres Chk

Report to: **Christopher Funk**

Project Description: **TTU Nammo WBO Groundwater Monitoring** City/State Collected: **Mesa, AZ** Please Circle: **PT MT CT ET**

Client Project # **722152201.002**

Lab Project # **PINYONMAZ-722152201**

Collected by (print): **Isabella Foster**

Site/Facility ID # P.O. #

Collected by (signature): *[Signature]*

Quote #

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Immediately Packed on Ice N Y

Date Results Needed No. of Cntrs

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | PERCHLORATE 125mlHDPE-NoPres | V8260AZ 40mlAmb-HCI | V8260LL14D 40mlAmb-HCI | | | | | | | | | | | | |
|--------------------|-----------|----------|-------|----------|------|--------------|------------------------------|---------------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| TTU-2-114-20221010 | G | GW | 114 | 10/10/22 | 1543 | 14 | X | X | X | | | | | | | | | | | | |
| TTU-1-50-20221011 | G | GW | 50 | 10/11/22 | 1646 | 7 | X | X | X | | | | | | | | | | | | |
| Dup-01 | G | GW | - | - | - | 7 | X | X | X | | | | | | | | | | | | |
| Trip Blank | G | GW | - | - | - | 1 | | X | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | | |
| | | GW | | | | | | | | | | | | | | | | | | | |

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **L1545901**
A243
Acctnum: **PINYONMAZ**
Template: **T205686**
Prelogin: **P912514**
PM: **288 - Daphne Richards**
PB:
Shipped Via:
Remarks | Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **want results back by 10/19.**
 pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist

| | | | |
|-------------------------------|----|---|---|
| COC Seal Present/Intact: | NP | Y | N |
| COC Signed/Accurate: | | Y | N |
| Bottles arrive intact: | | Y | N |
| Correct bottles used: | | Y | N |
| Sufficient volume sent: | | Y | N |
| If Applicable | | | |
| VOA Zero Headpace: | | Y | N |
| Preservation Correct/Checked: | | Y | N |
| RAD Screen <0.5 mR/hr: | | Y | N |

| | | | | |
|---|-----------------------|-------------------|---|--|
| Relinquished by: (Signature) <i>[Signature]</i> | Date: 10/11/22 | Time: 1852 | Received by: (Signature) <i>[Signature]</i> | Trip Blank Received: <input checked="" type="checkbox"/> Yes / No <input type="checkbox"/> HCl / MeOH <input type="checkbox"/> TBR |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: 12-12-22 | Time: 1800 | Received by: (Signature) <i>[Signature]</i> | Temp 6.046°C Bottles Received: 26 |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: | Time: | Received for lab by: (Signature) <i>[Signature]</i> | Date: 10/13/22 Time: 900 Hold: Condition: NCF / OK |

DN/P17

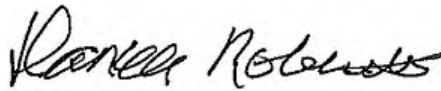
ANALYTICAL REPORT

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix, AZ 85040
Tel: (602)437-3340

Laboratory Job ID: 550-190229-1
Client Project/Site: Nammo

For:
Pinyon Environmental, Inc.
2801 E Camelback Road
Suite 200
Phoenix, Arizona 85016

Attn: Jeremy Husson



Authorized for release by:
9/19/2022 5:10:44 AM

Danielle Roberts, Senior Project Manager
(657)210-6355

Danielle.Roberts@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

Glossary

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

Case Narrative

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

Job ID: 550-190229-1

Laboratory: Eurofins Phoenix

Narrative

Job Narrative
550-190229-1

Comments

No additional comments.

Receipt

The sample was received on 9/9/2022 3:53 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

LCMS

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

Organic Prep

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

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Sample Summary

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------|--------|----------------|----------------|
| 550-190229-1 | PF-2-400-20220909 | Water | 09/09/22 13:42 | 09/09/22 15:53 |

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Detection Summary

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

Client Sample ID: PF-2-400-20220909

Lab Sample ID: 550-190229-1

| Analyte | Result | Qualifier | RL | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|------|------|---------|---|--------|-----------|
| Perchlorate | 0.65 | | 0.50 | ug/L | 1 | | 6850 | Total/NA |

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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

Client Sample ID: PF-2-400-20220909

Lab Sample ID: 550-190229-1

Date Collected: 09/09/22 13:42

Matrix: Water

Date Received: 09/09/22 15:53

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Perchlorate | 0.65 | | 0.50 | ug/L | | 09/13/22 16:18 | 09/14/22 18:55 | 1 |

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QC Sample Results

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 320-616396/1-A
Matrix: Water
Analysis Batch: 616859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616396

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------------|------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | ug/L | | 09/13/22 16:18 | 09/14/22 17:29 | 1 |

Lab Sample ID: LCS 320-616396/2-A
Matrix: Water
Analysis Batch: 616859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616396

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|----------------|---------------|------------------|------|---|------|----------------|
| Perchlorate | 5.00 | 5.81 | | ug/L | | 116 | 80 - 120 |

Lab Sample ID: 550-190229-1 MS
Matrix: Water
Analysis Batch: 616859

Client Sample ID: PF-2-400-20220909
Prep Type: Total/NA
Prep Batch: 616396

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Perchlorate | 0.65 | | 5.00 | 6.26 | | ug/L | | 112 | 80 - 120 |

Lab Sample ID: 550-190229-1 MSD
Matrix: Water
Analysis Batch: 616859

Client Sample ID: PF-2-400-20220909
Prep Type: Total/NA
Prep Batch: 616396

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Perchlorate | 0.65 | | 5.00 | 6.38 | | ug/L | | 115 | 80 - 120 | 2 | 15 |

QC Association Summary

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

LCMS

Filtration Batch: 616396

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 550-190229-1 | PF-2-400-20220909 | Total/NA | Water | Filtration | |
| MB 320-616396/1-A | Method Blank | Total/NA | Water | Filtration | |
| LCS 320-616396/2-A | Lab Control Sample | Total/NA | Water | Filtration | |
| 550-190229-1 MS | PF-2-400-20220909 | Total/NA | Water | Filtration | |
| 550-190229-1 MSD | PF-2-400-20220909 | Total/NA | Water | Filtration | |

Analysis Batch: 616859

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 550-190229-1 | PF-2-400-20220909 | Total/NA | Water | 6850 | 616396 |
| MB 320-616396/1-A | Method Blank | Total/NA | Water | 6850 | 616396 |
| LCS 320-616396/2-A | Lab Control Sample | Total/NA | Water | 6850 | 616396 |
| 550-190229-1 MS | PF-2-400-20220909 | Total/NA | Water | 6850 | 616396 |
| 550-190229-1 MSD | PF-2-400-20220909 | Total/NA | Water | 6850 | 616396 |

Lab Chronicle

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

Client Sample ID: PF-2-400-20220909

Lab Sample ID: 550-190229-1

Date Collected: 09/09/22 13:42

Matrix: Water

Date Received: 09/09/22 15:53

| <u>Prep Type</u> | <u>Batch Type</u> | <u>Batch Method</u> | <u>Run</u> | <u>Dilution Factor</u> | <u>Batch Number</u> | <u>Analyst</u> | <u>Lab</u> | <u>Prepared or Analyzed</u> |
|------------------|-------------------|---------------------|------------|------------------------|---------------------|----------------|------------|-----------------------------|
| Total/NA | Filtration | Filtration | | | 616396 | LN | EET SAC | 09/13/22 16:18 |
| Total/NA | Analysis | 6850 | | 1 | 616859 | JY1 | EET SAC | 09/14/22 18:55 |

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Accreditation/Certification Summary

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST) | State | 17-020 | 02-20-24 |
| ANAB | Dept. of Defense ELAP | L2468 | 01-20-24 |
| ANAB | Dept. of Energy | L2468.01 | 01-20-24 |
| ANAB | ISO/IEC 17025 | L2468 | 01-20-24 |
| Arizona | State | AZ0708 | 08-11-23 |
| Arkansas DEQ | State | 88-0691 | 06-17-22 * |
| California | State | 2897 | 01-31-23 |
| Colorado | State | CA0004 | 08-31-23 |
| Florida | NELAP | E87570 | 06-30-23 |
| Georgia | State | 4040 | 01-30-23 |
| Hawaii | State | <cert No.> | 01-29-23 |
| Illinois | NELAP | 200060 | 03-17-24 |
| Kansas | NELAP | E-10375 | 10-31-22 |
| Louisiana | NELAP | 01944 | 06-30-23 |
| Louisiana (All) | NELAP | 01944 | 06-30-23 |
| Maine | State | CA00004 | 04-14-24 |
| Michigan | State | 9947 | 01-31-23 |
| Nevada | State | CA00044 | 07-31-23 |
| New Hampshire | NELAP | 2997 | 04-18-23 |
| New Jersey | NELAP | CA005 | 06-30-23 |
| New York | NELAP | 11666 | 04-01-23 |
| Ohio | State | 41252 | 01-29-23 |
| Oregon | NELAP | 4040 | 01-29-23 |
| Texas | NELAP | T104704399-19-13 | 05-31-23 |
| US Fish & Wildlife | US Federal Programs | 58448 | 04-30-23 |
| USDA | US Federal Programs | P330-18-00239 | 01-23-23 |
| Utah | NELAP | CA000442021-12 | 02-28-23 |
| Virginia | NELAP | 460278 | 03-14-23 |
| Washington | State | C581 | 05-05-23 |
| West Virginia (DW) | State | 9930C | 12-31-22 |
| Wisconsin | State | 998204680 | 08-31-23 |
| Wyoming | State Program | 8TMS-L | 01-28-19 * |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Pinyon Environmental, Inc.
Project/Site: Nammo

Job ID: 550-190229-1

| Method | Method Description | Protocol | Laboratory |
|------------|----------------------------------|----------|------------|
| 6850 | Perchlorate by LC/MS or LC/MS/MS | EPA | EET SAC |
| Filtration | Sample Filtration | None | EET SAC |

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Chain of Custody Record

597711




Environment Testing
TestAmerica

Address: _____

190229

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

| | | | | | | | |
|---|--|--|--|---|--|--|--|
| Company Name: Pinion Environmental Address: 2801 E. Camelback Rd Suite 200 City/State/Zip: Phoenix AZ 85016 Phone: (303)980-5200 Fax: N/A Project Name: NAMMO Site: _____ P O #: _____ | | Client Contact: _____ Project Manager: Jeremy Husson Tel/Email: husson@pinion-env.com Analysis Turnaround Time: _____ <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day | | Date: 9/19/22 Site Contact: Danielle Roberts Lab Contact: _____ Carrier: _____ | | COC No.: _____ of _____ COCs Sampler: Isabella Foster For Lab Use Only: _____ Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ | |
| Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____ Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab <input type="checkbox"/> Archive for _____ Months | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab <input type="checkbox"/> Archive for _____ Months | | Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____ | | | |
| Relinquished by: _____ Relinquished by: _____ | | Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Company: Pinion Date/Time: 9/19/22 1553 | | Received by: _____ Received by: _____ Received in Laboratory by: _____ Company: env env Date/Time: 9/19/22 1553 | | | |
| Sample Identification PF-2-400-20220909 | | Sample Date 9/19/22 1342 | | Sample Time 651 | | | |
| Sample Type (G-Comp, G-seab) GW | | Matrix 1 | | # of Cont. 1 | | | |
| Filtered Sample (Y/N) Y | | Perform MS / MSD (Y/N) MSD | | Perchlorate 6850 | | | |
| Sample Specific Notes: -D1 | |  550-190229 Chain of Custody | | | | | |



Environment Testing America

Sacramento Sample Receiving Notes



550-190229 Field Sheet

Tracking #: 5290-4625-4802

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L-10 Corr. Factor: (+/-) 0 °C

Ice [x] Wet [x] Gel _____ Other _____

Cooler Custody Seal: 1871226

Cooler ID: _____

Temp Observed: 1.6 °C Corrected: 1.6 °C From: Temp Blank [x] Sample []

| Opening/Processing The Shipment | Yes | No | NA |
|------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Cooler compromised/tampered with? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cooler Temperature is acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Frozen samples show signs of thaw? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Initials: JL Date: 9/10/22

| Unpacking/Labeling The Samples | Yes | No | NA |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| COC is complete w/o discrepancies? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples compromised/tampered with? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Containers are not broken or leaking? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample custody seal? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample containers have legible labels? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample date/times are provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Appropriate containers are used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample bottles are completely filled? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample preservatives verified? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is the Field Sampler's name on COC? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Samples require splitting/compositing? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Samples w/o discrepancies? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Zero headspace?* | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Alkalinity has no headspace? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Perchlorate has headspace? (Methods 314, 331, 6850) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Multiphasic samples are not present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: B Date: 9.10.22

Notes: _____

Trizma Lot #(s): _____

| Login Completion | Yes | No | NA |
|------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Receipt Temperature on COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within hold time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| NCM Filed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Log Release checked in TALS? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Initials: B Date: 9.10.22

Login Sample Receipt Checklist

Client: Pinyon Environmental, Inc.

Job Number: 550-190229-1

Login Number: 190229

List Number: 1

Creator: Gravlin, Andrea

List Source: Eurofins Phoenix

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



Login Sample Receipt Checklist

Client: Pinyon Environmental, Inc.

Job Number: 550-190229-1

Login Number: 190229

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

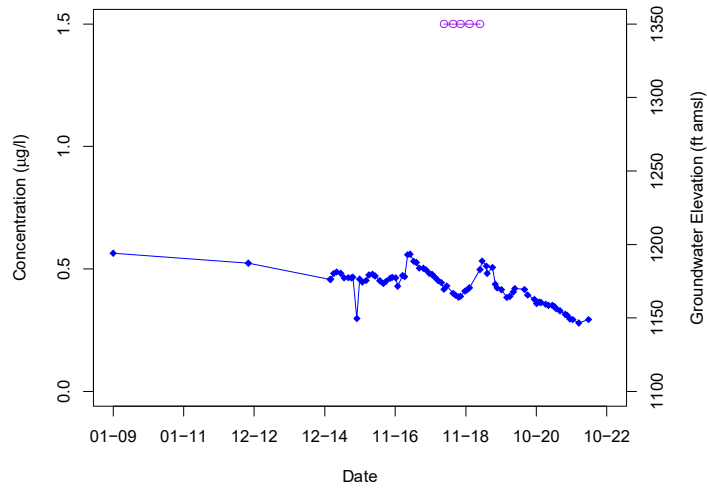
List Creation: 09/10/22 11:37 AM

| Question | Answer | Comment |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | 1871226 |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 1.6c |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | False | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



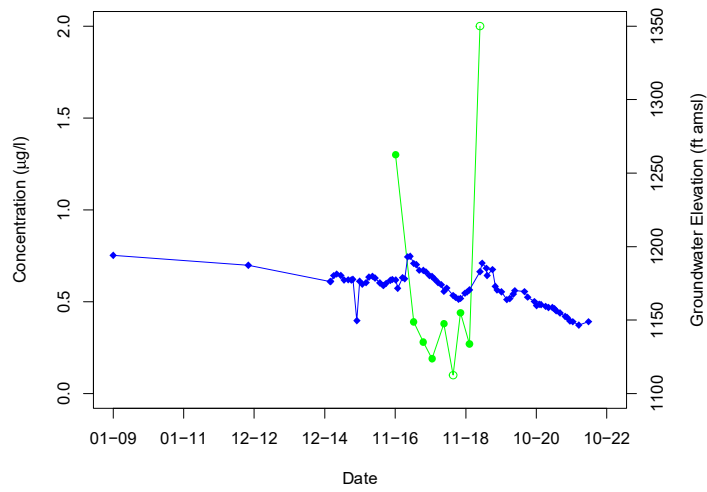
Attachment 4 – Concentration and Groundwater Elevation versus Time Plots

PF-1



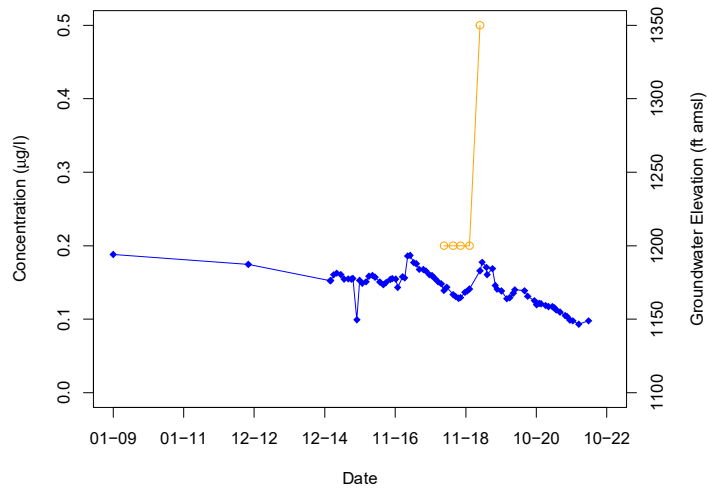
- Detect
- Non-Detect
- 1,4-Dioxane
- Groundwater Elevation

PF-1



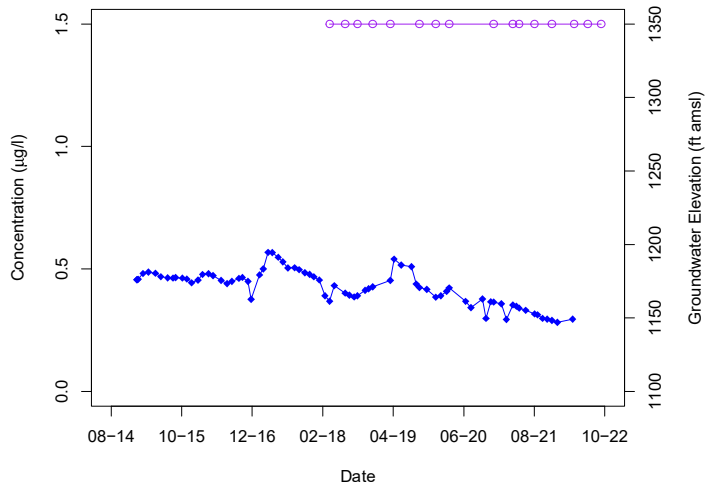
- Detect
- Non-Detect
- Perchlorate
- Groundwater Elevation

PF-1



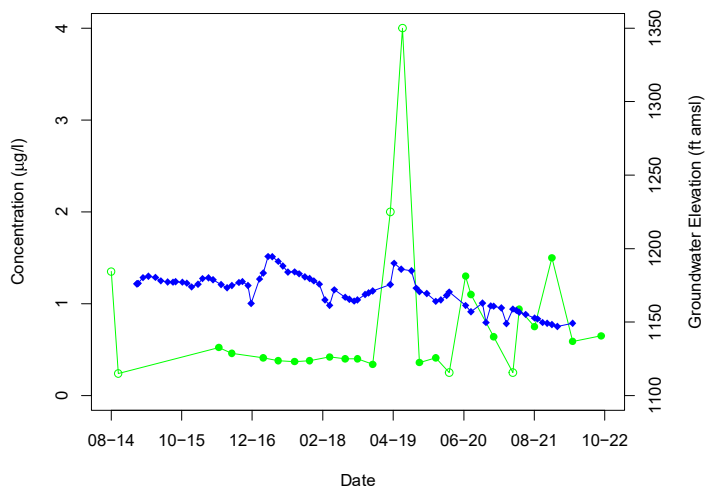
- Detect
- Non-Detect
- Trichloroethene
- Groundwater Elevation

PF-2



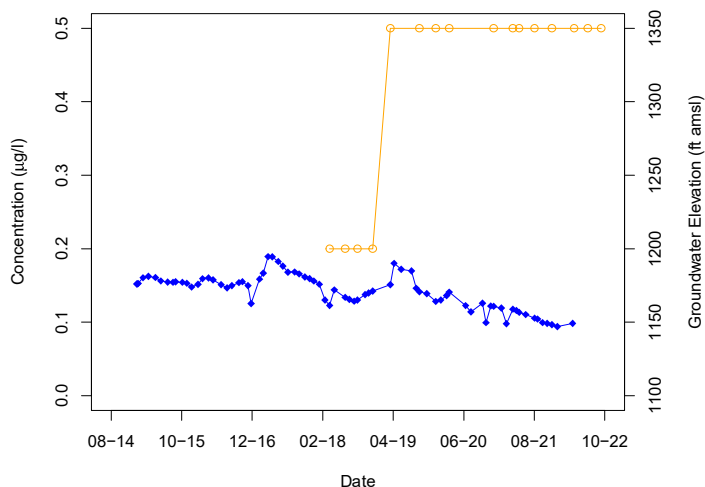
- Detect
- Non-Detect
- 1,4-Dioxane
- Groundwater Elevation

PF-2



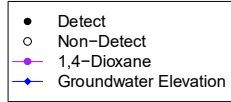
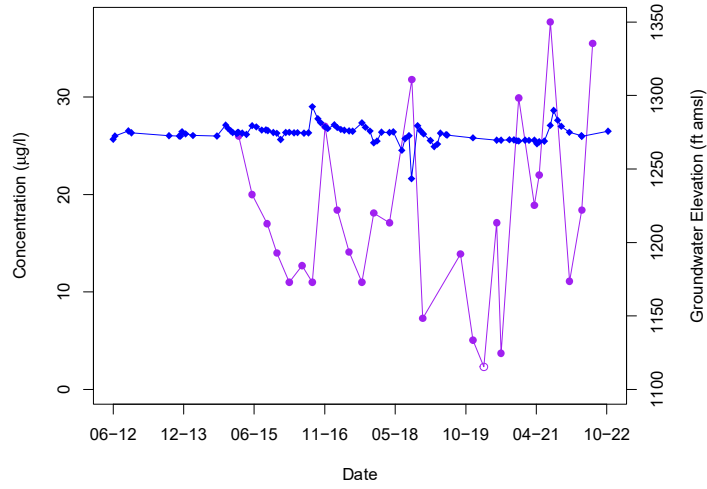
- Detect
- Non-Detect
- Perchlorate
- Groundwater Elevation

PF-2

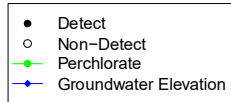
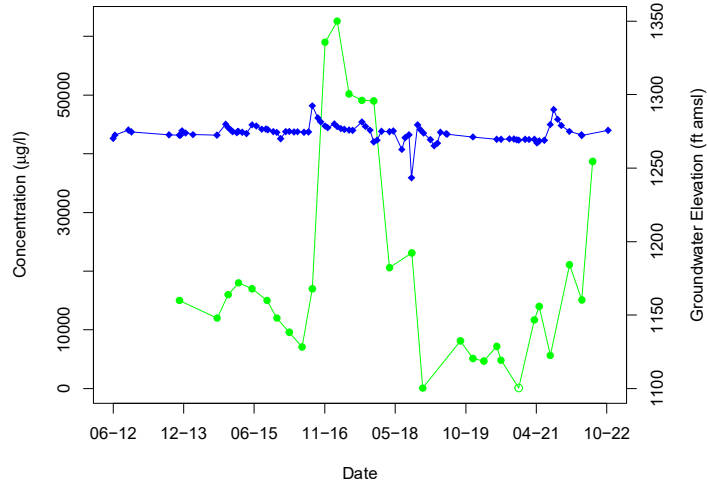


- Detect
- Non-Detect
- Trichloroethene
- Groundwater Elevation

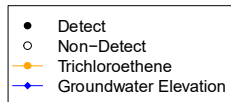
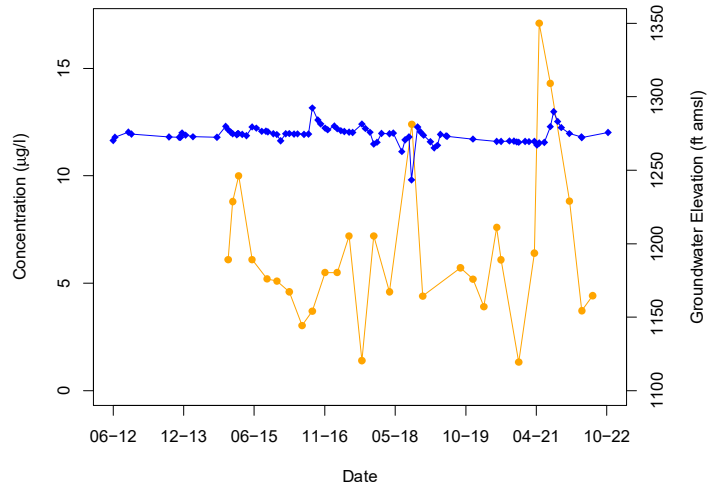
TTU-1



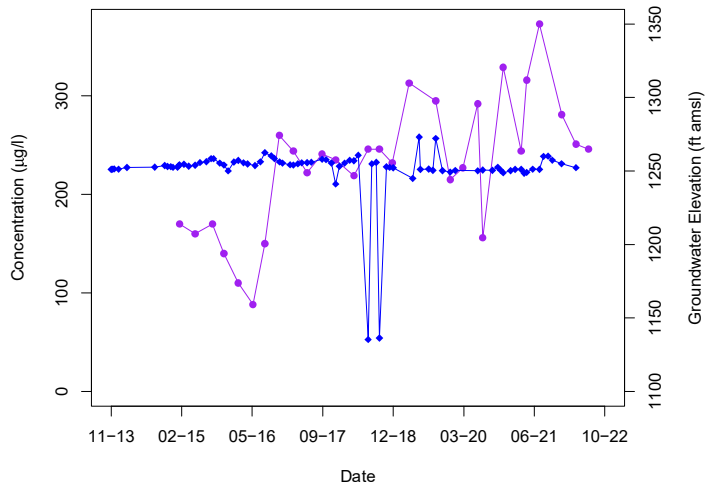
TTU-1



TTU-1

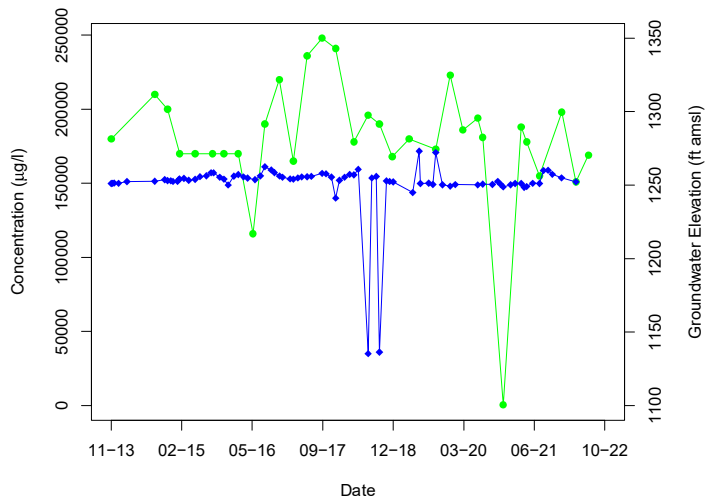


TTU-2



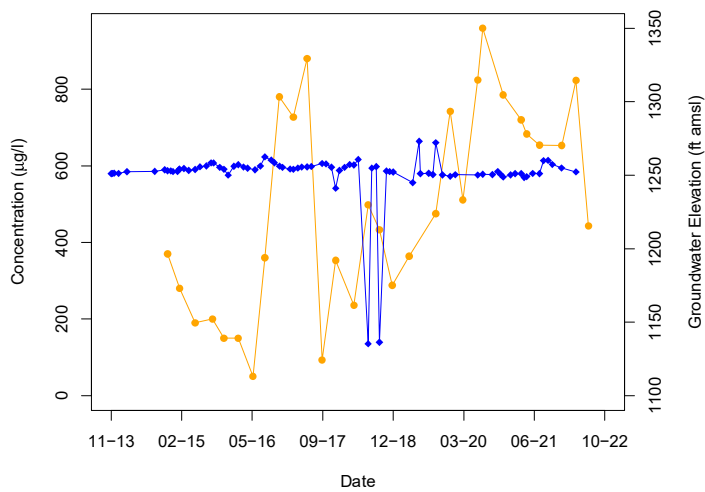
- Detect
- Non-Detect
- 1,4-Dioxane
- Groundwater Elevation

TTU-2



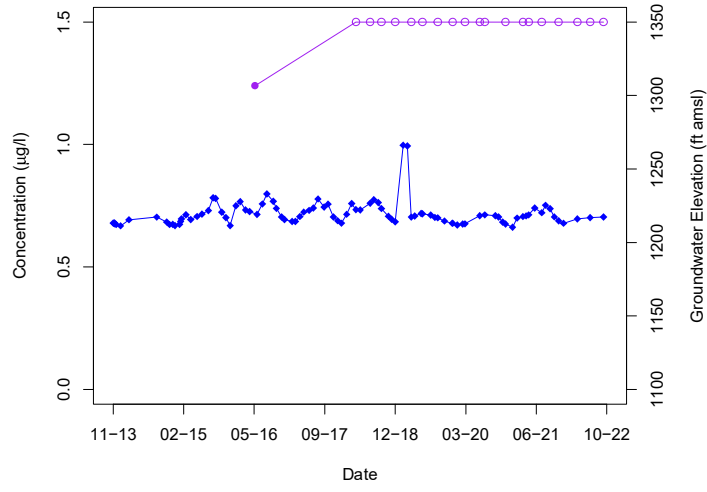
- Detect
- Non-Detect
- Perchlorate
- Groundwater Elevation

TTU-2



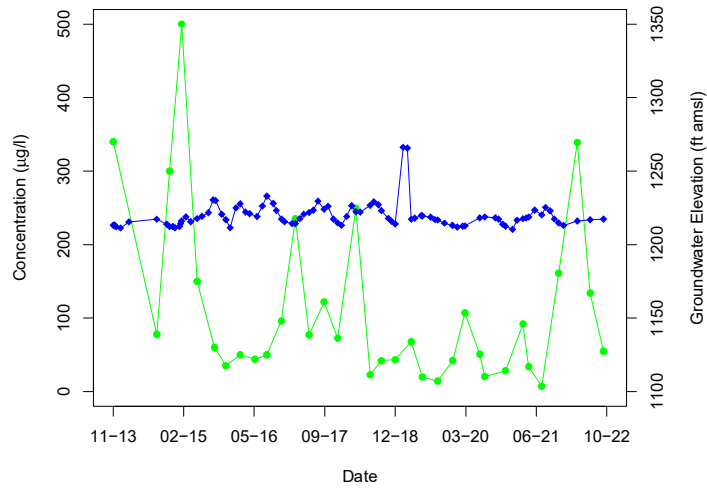
- Detect
- Non-Detect
- Trichloroethene
- Groundwater Elevation

TTU-3



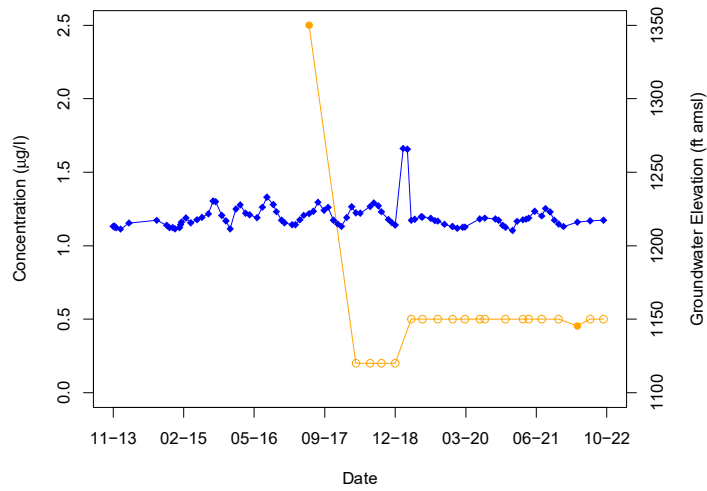
- Detect
- Non-Detect
- 1,4-Dioxane
- ◇— Groundwater Elevation

TTU-3



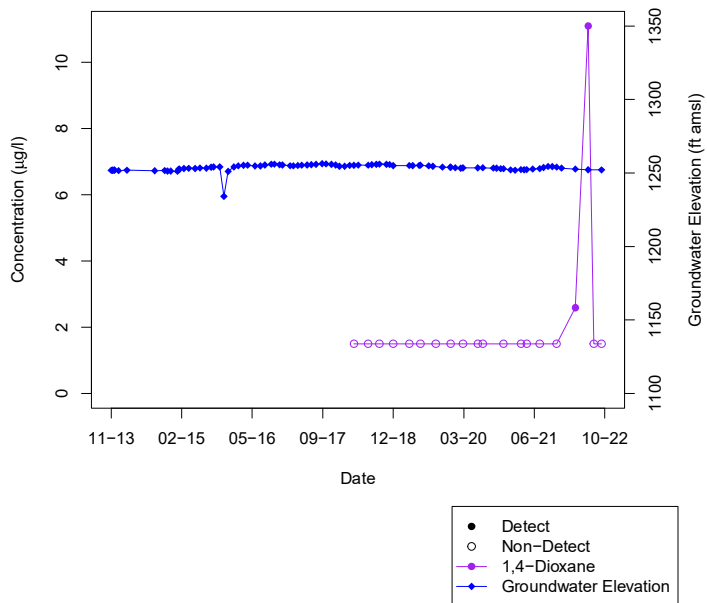
- Detect
- Non-Detect
- Perchlorate
- ◇— Groundwater Elevation

TTU-3

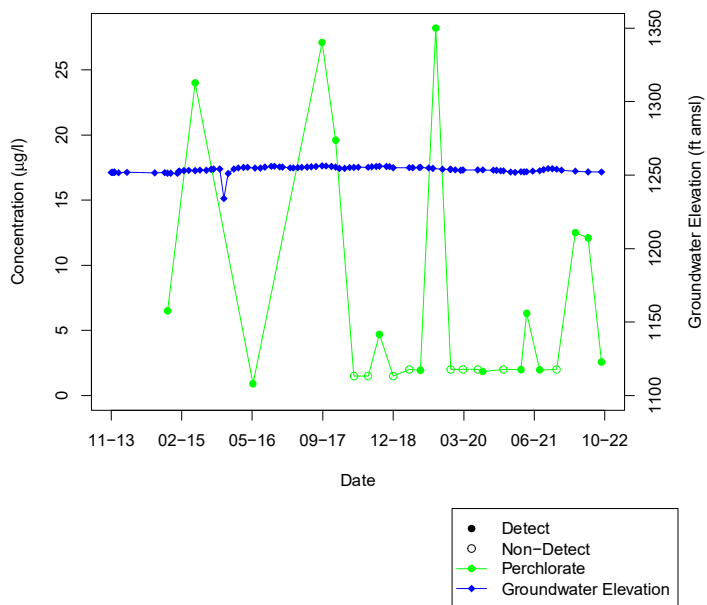


- Detect
- Non-Detect
- Trichloroethene
- ◇— Groundwater Elevation

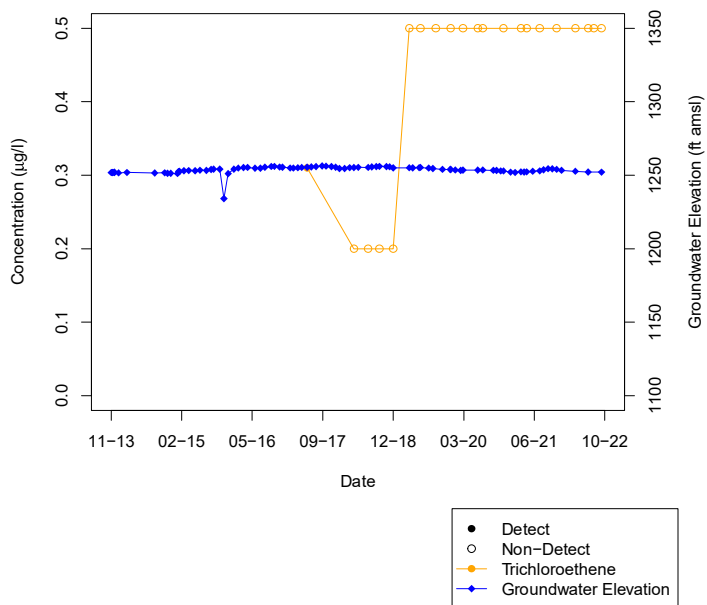
TTU-4



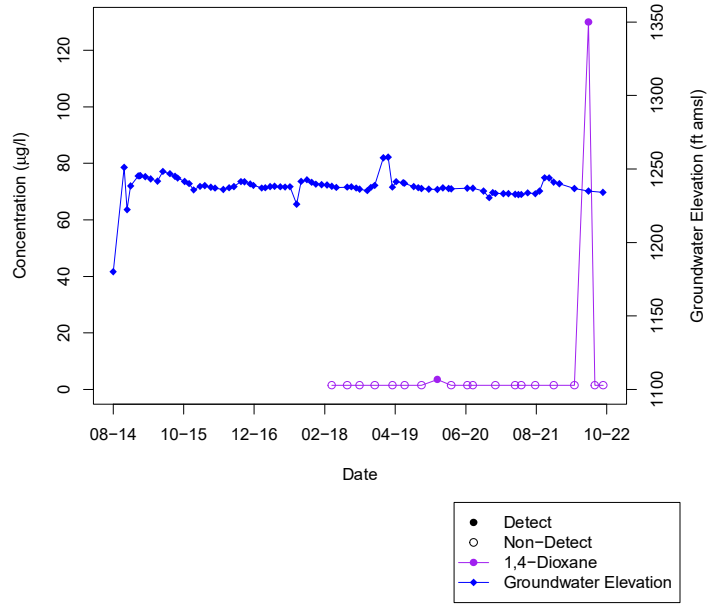
TTU-4



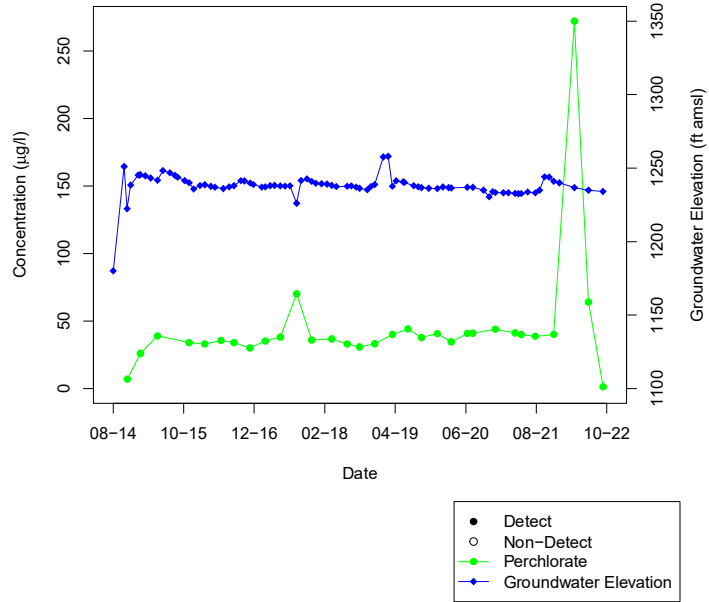
TTU-4



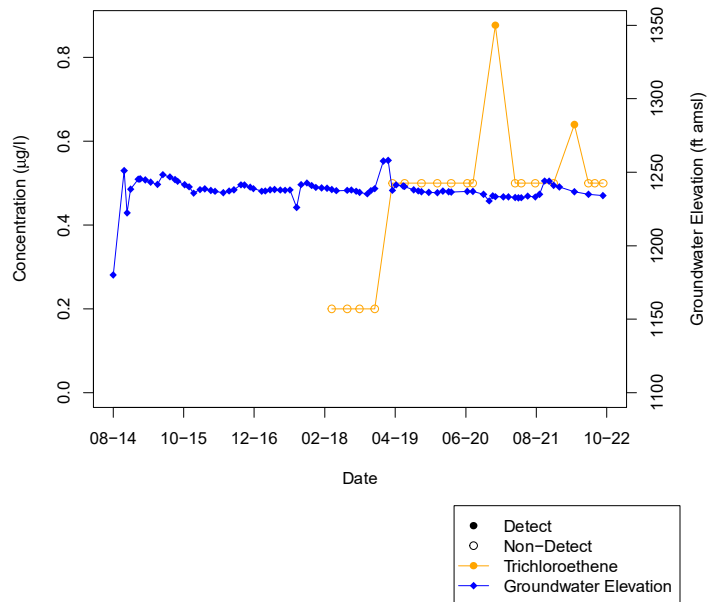
TTU-5



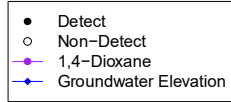
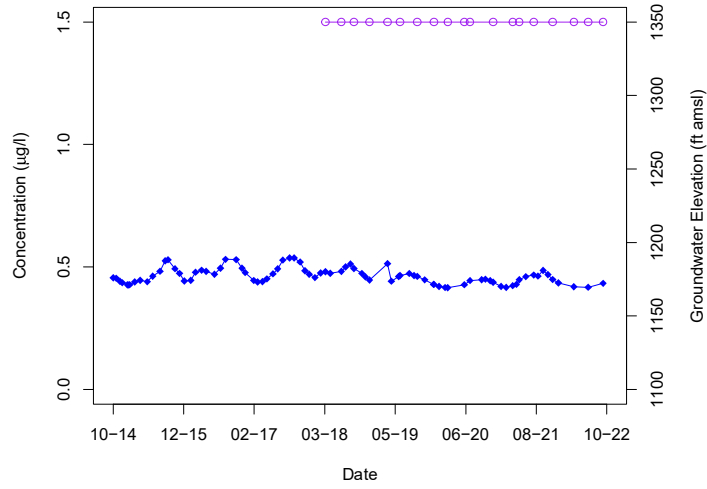
TTU-5



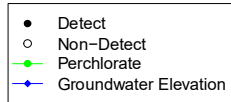
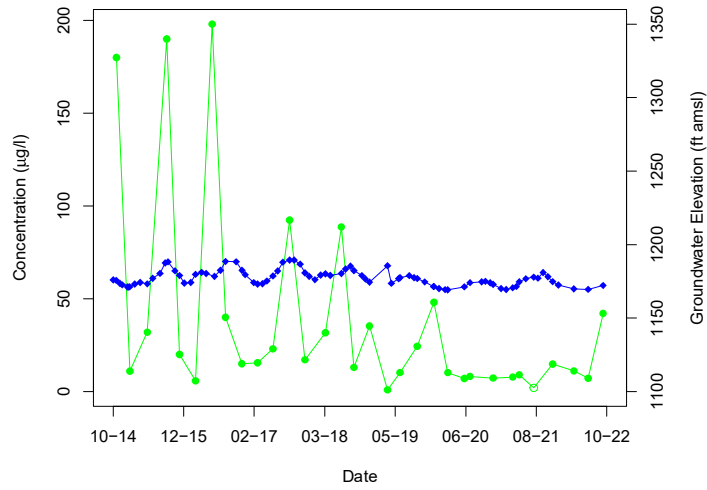
TTU-5



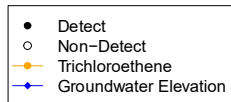
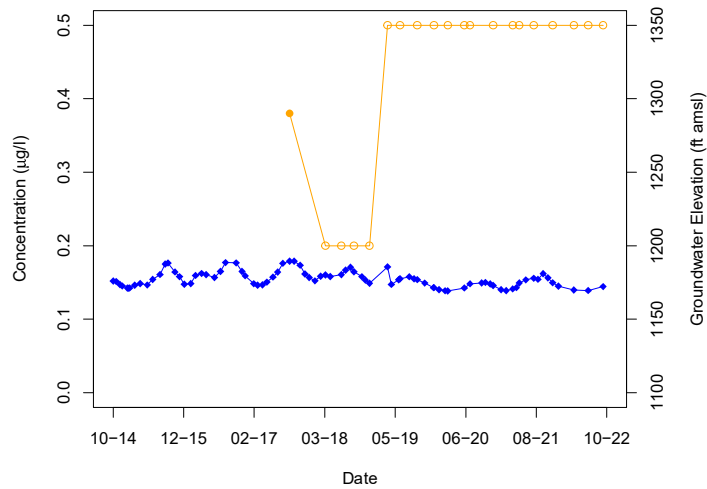
TTU-6



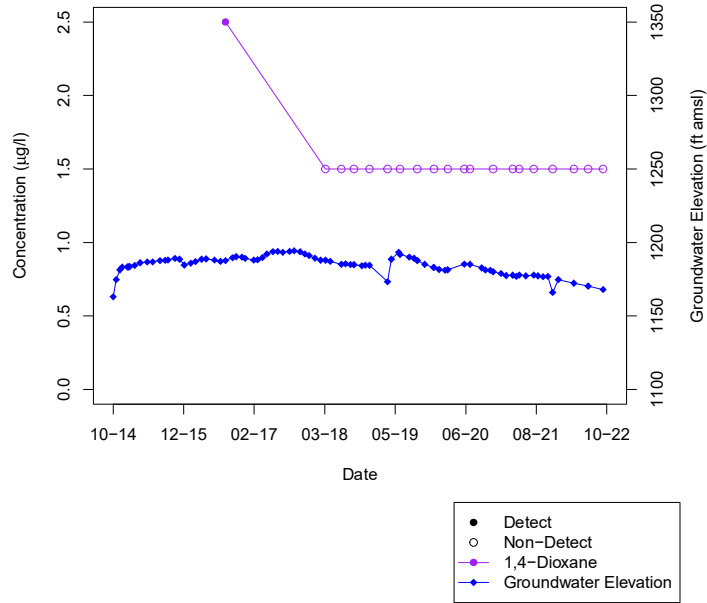
TTU-6



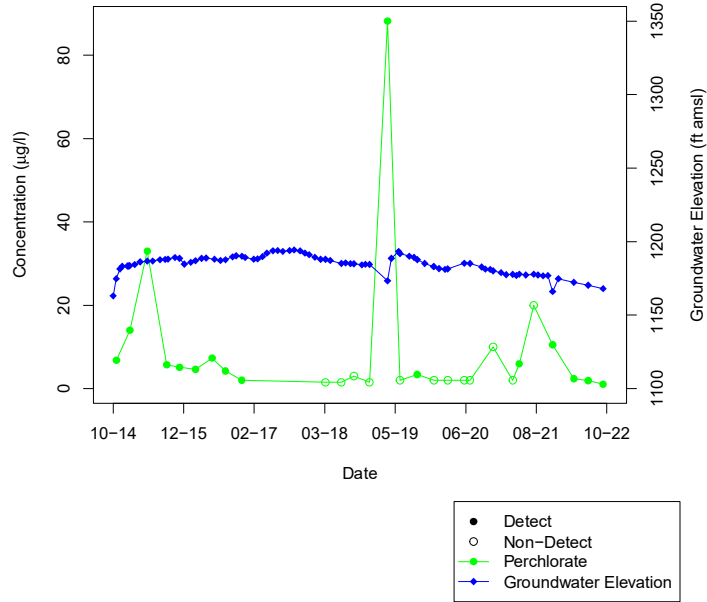
TTU-6



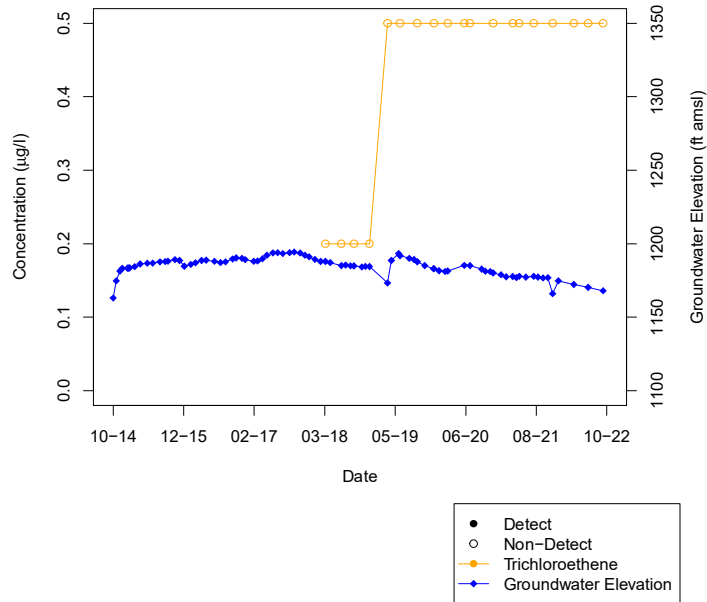
TTU-7



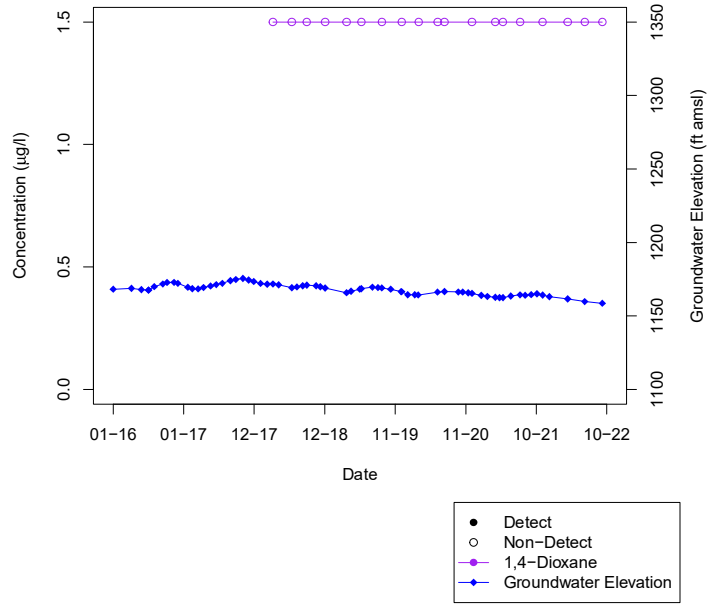
TTU-7



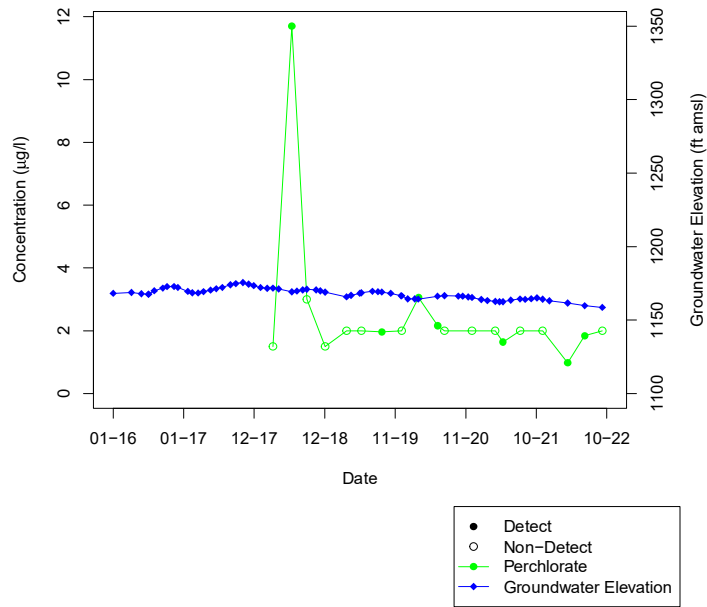
TTU-7



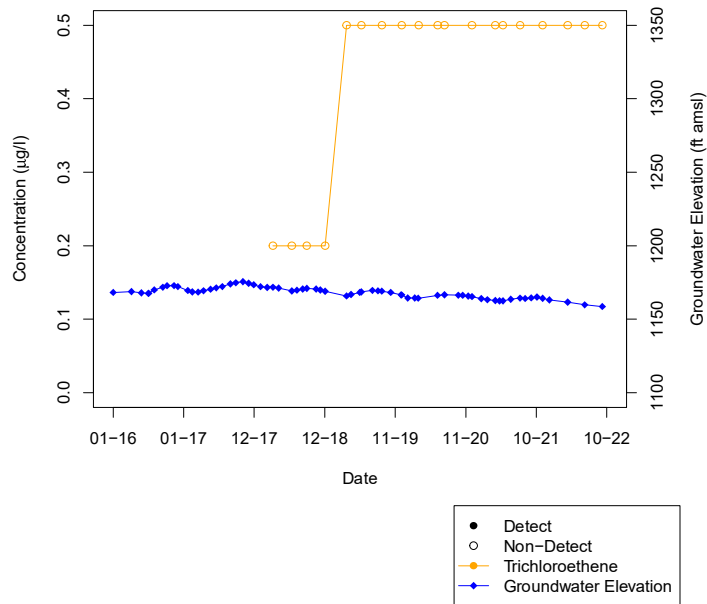
TTU-8



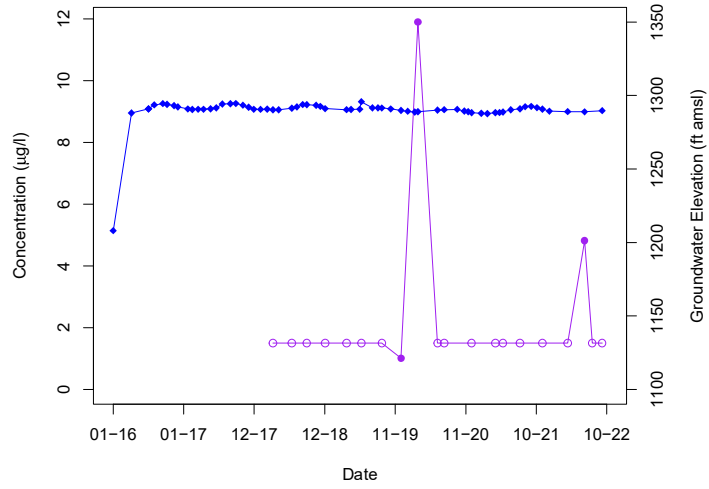
TTU-8



TTU-8

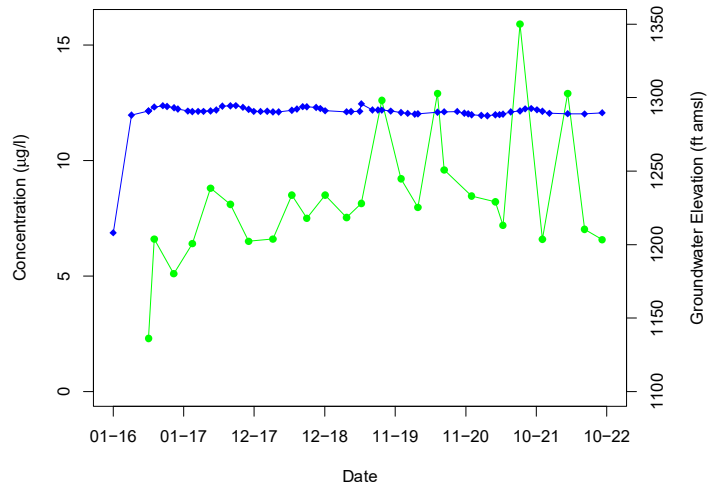


TTU-9A



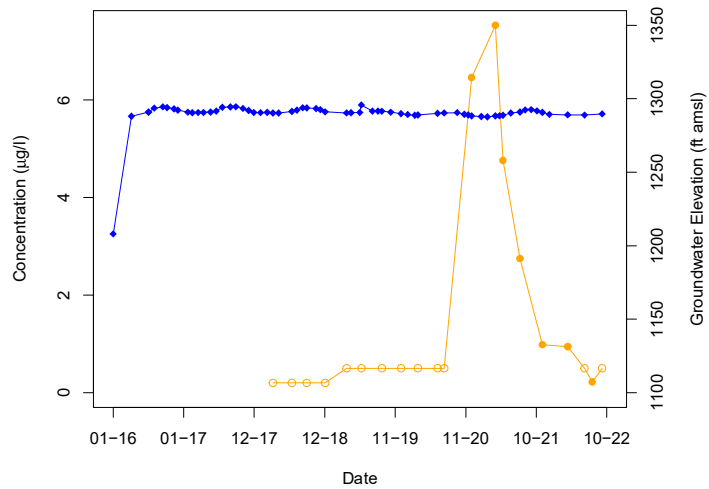
- Detect
- Non-Detect
- 1,4-Dioxane
- Groundwater Elevation

TTU-9A



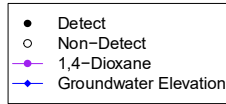
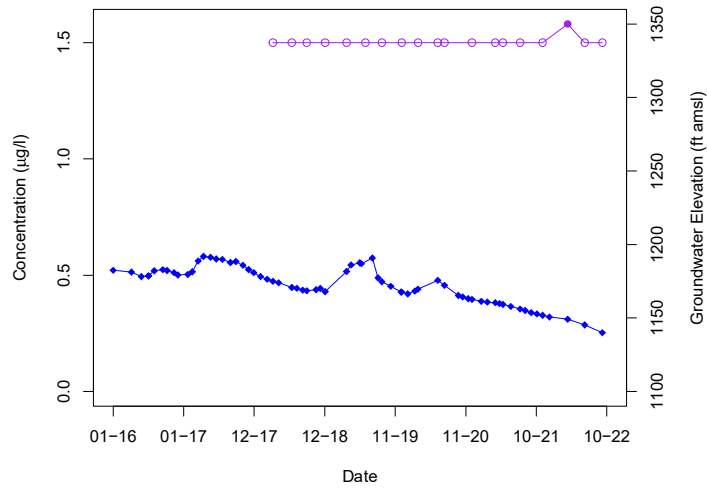
- Detect
- Non-Detect
- Perchlorate
- Groundwater Elevation

TTU-9A

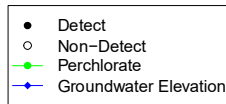
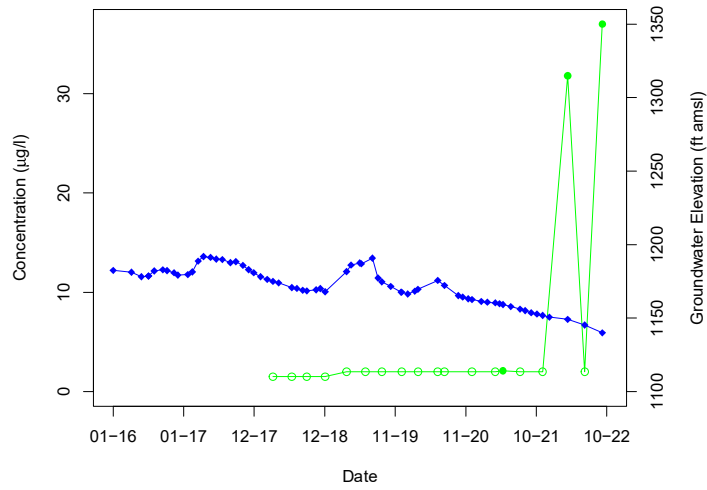


- Detect
- Non-Detect
- Trichloroethene
- Groundwater Elevation

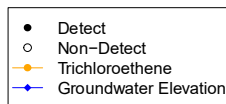
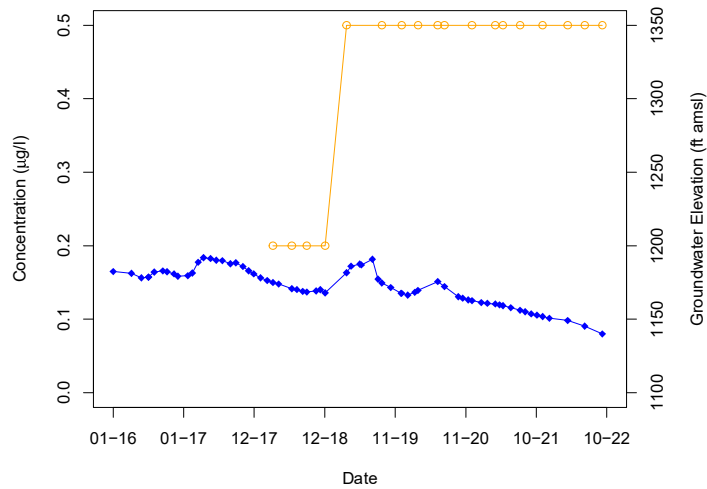
TTU-10



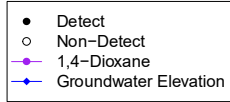
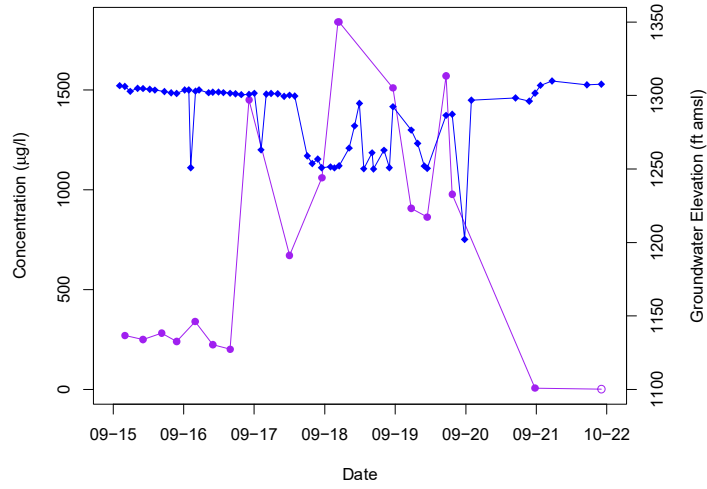
TTU-10



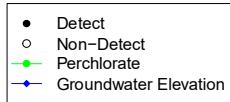
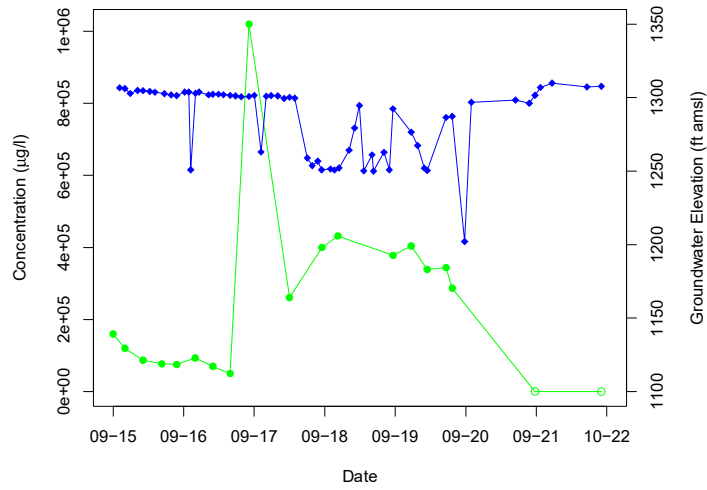
TTU-10



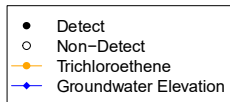
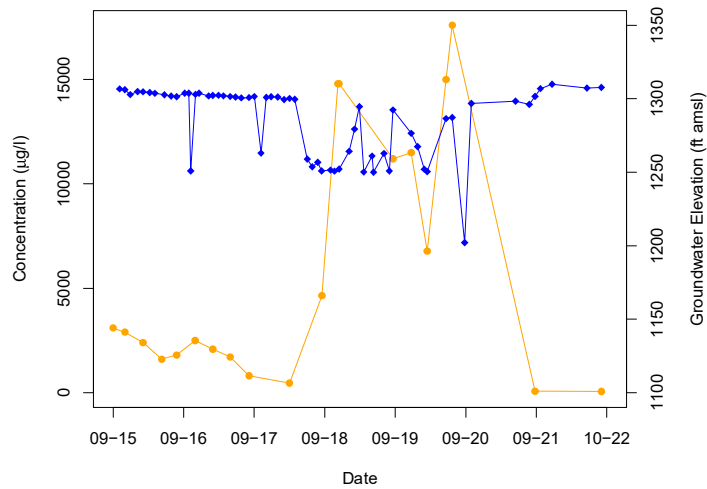
TTU-11



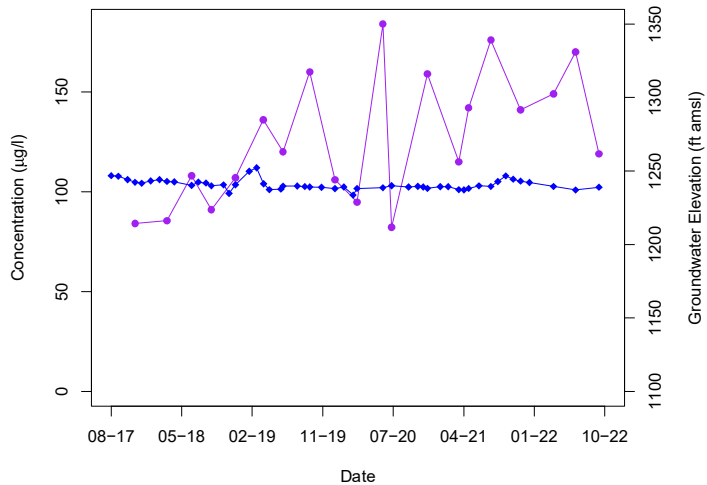
TTU-11



TTU-11

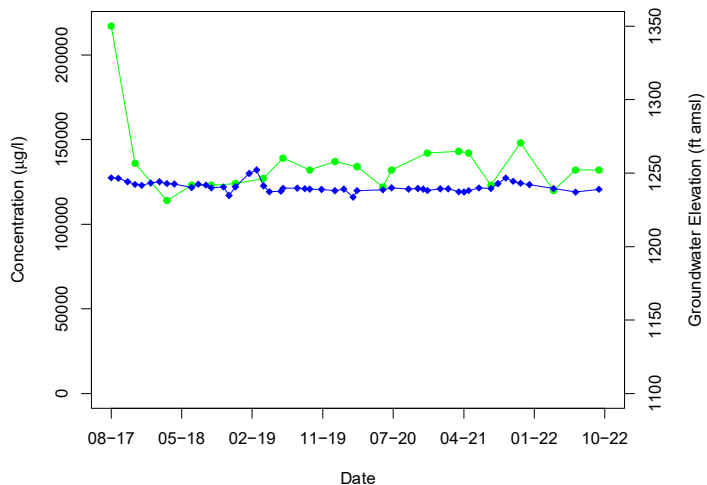


TTU-12



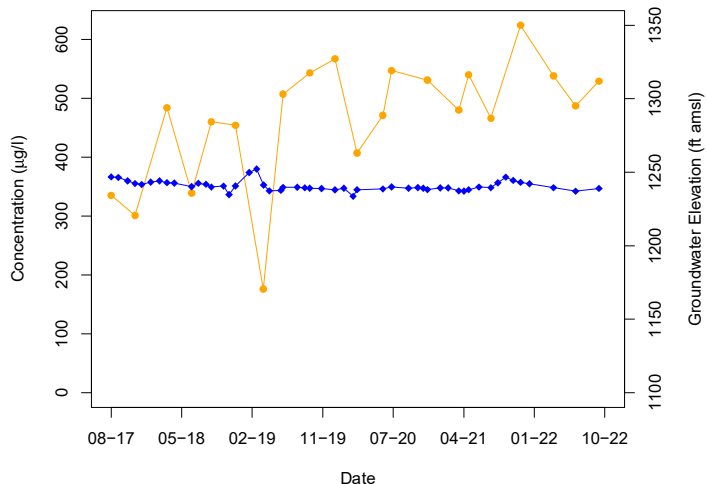
- Detect
- Non-Detect
- 1,4-Dioxane
- Groundwater Elevation

TTU-12



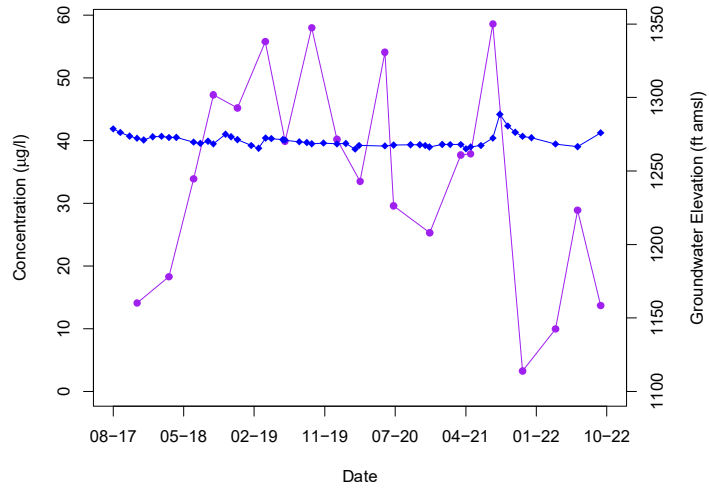
- Detect
- Non-Detect
- Perchlorate
- Groundwater Elevation

TTU-12



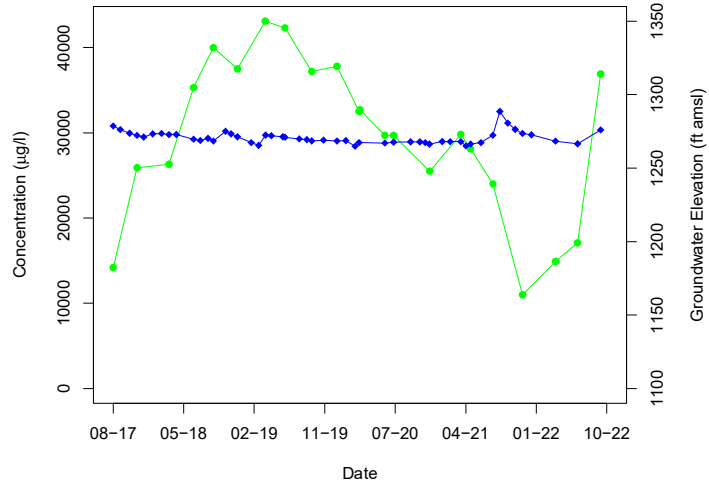
- Detect
- Non-Detect
- Trichloroethene
- Groundwater Elevation

TTU-13



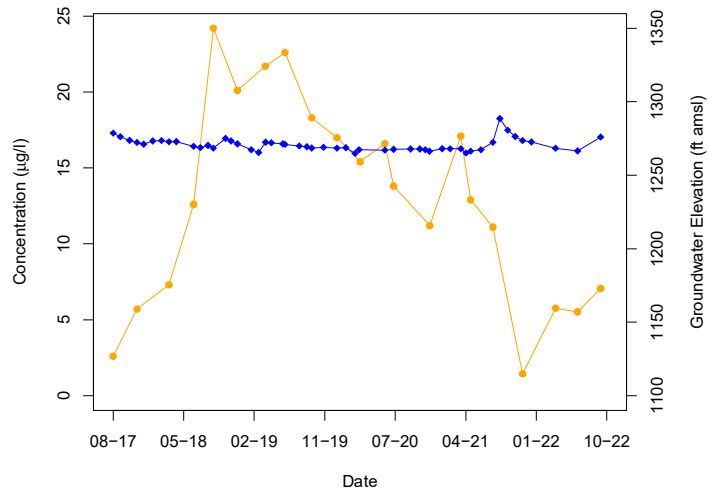
- Detect
- Non-Detect
- 1,4-Dioxane
- Groundwater Elevation

TTU-13



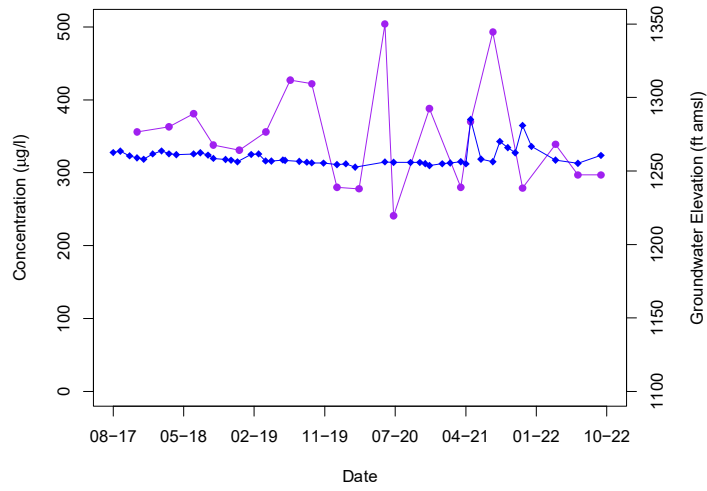
- Detect
- Non-Detect
- Perchlorate
- Groundwater Elevation

TTU-13

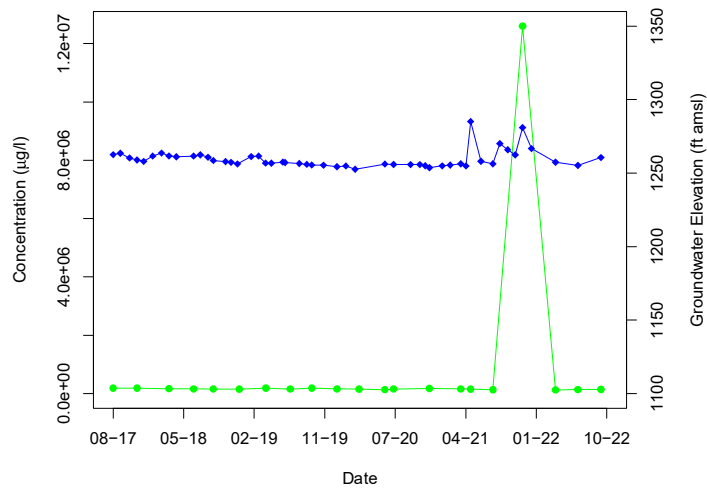


- Detect
- Non-Detect
- Trichloroethene
- Groundwater Elevation

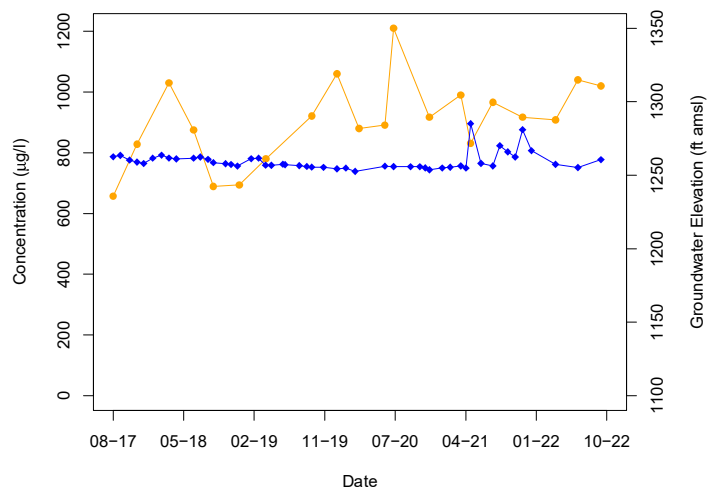
TTU-14



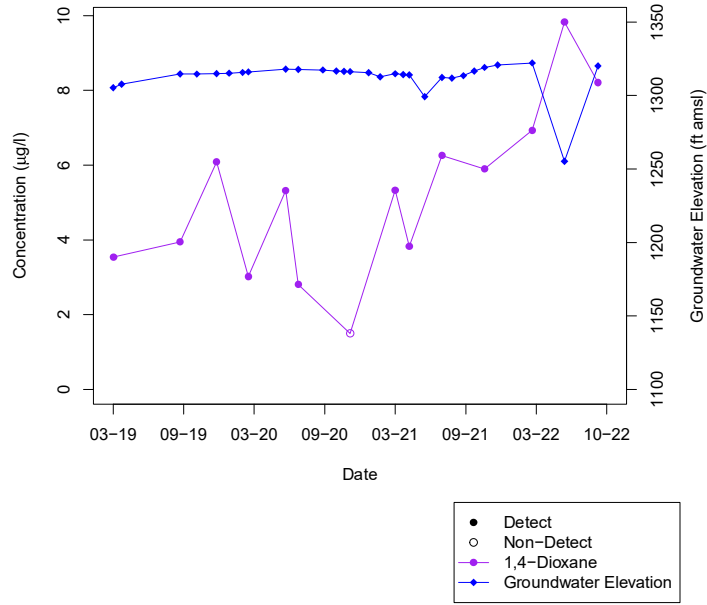
TTU-14



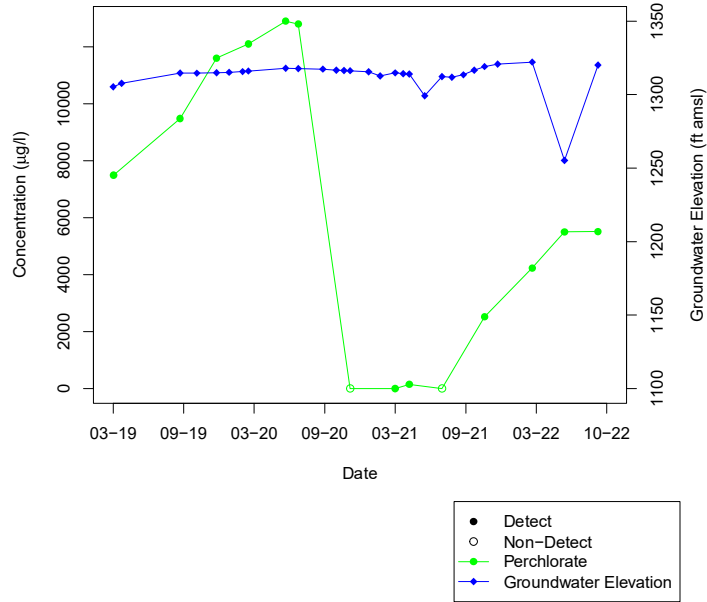
TTU-14



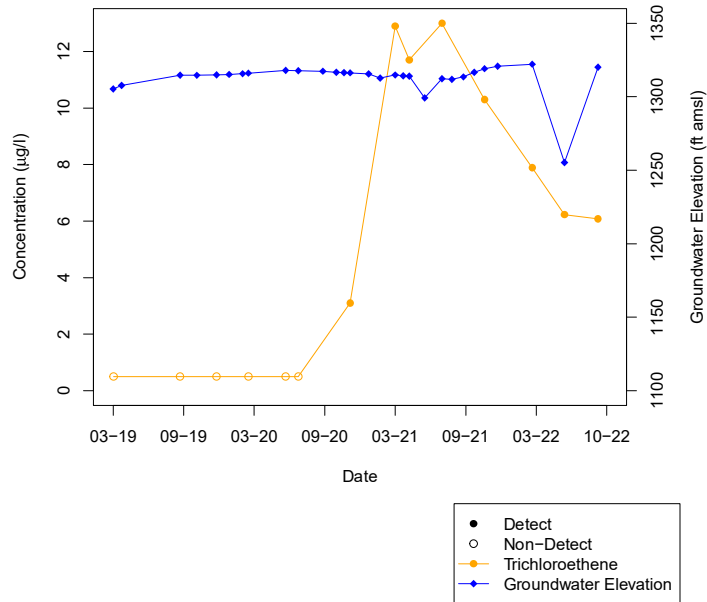
TTU-15



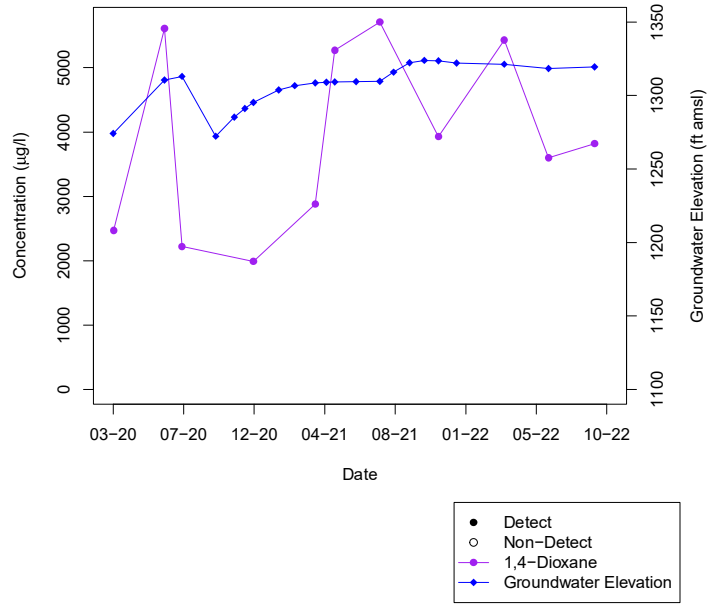
TTU-15



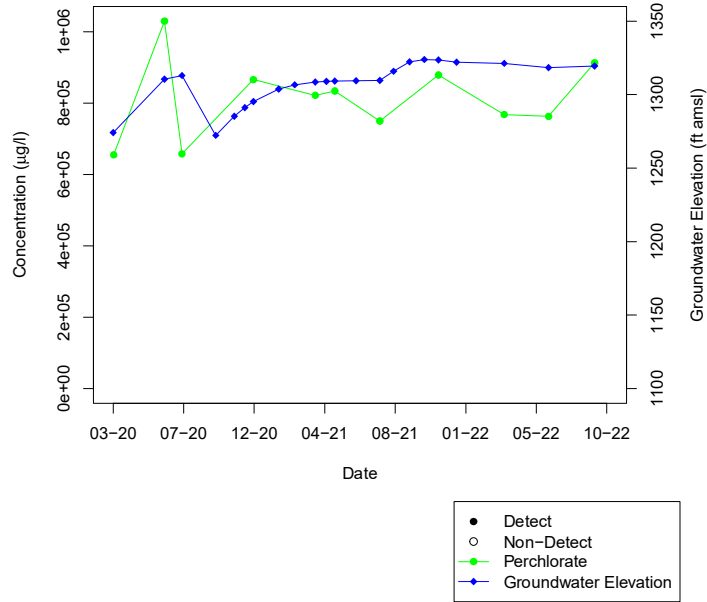
TTU-15



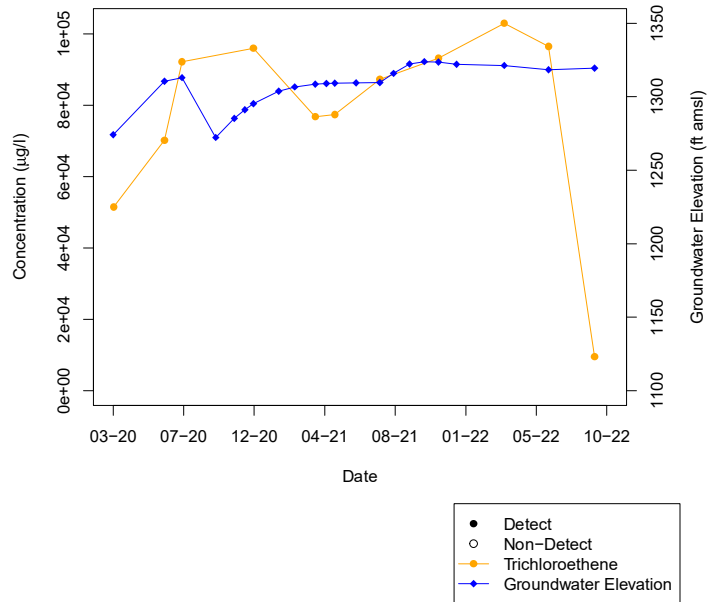
TTU-16



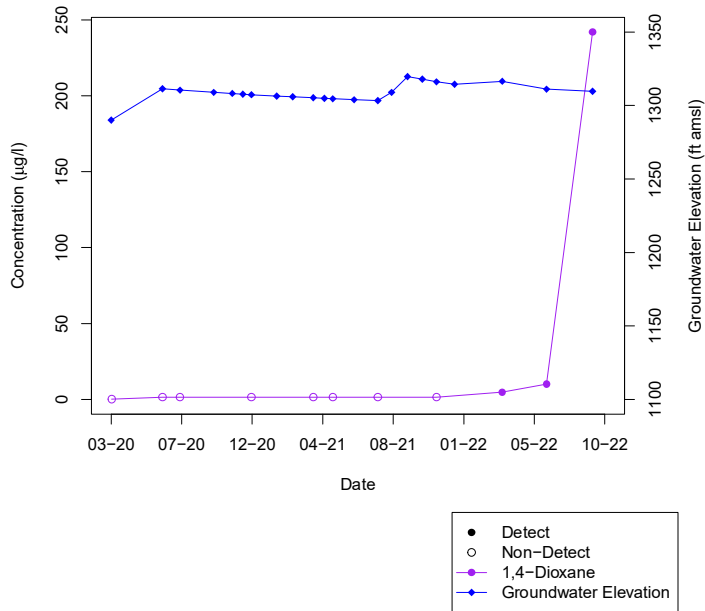
TTU-16



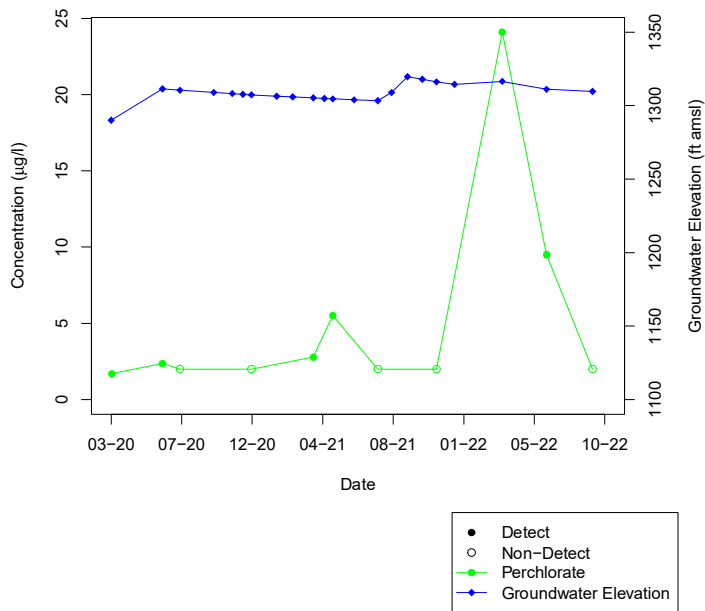
TTU-16



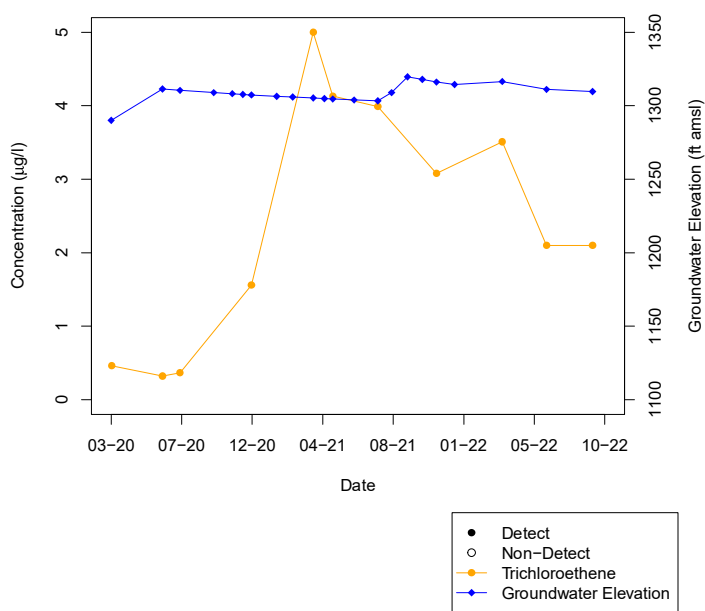
TTU-17



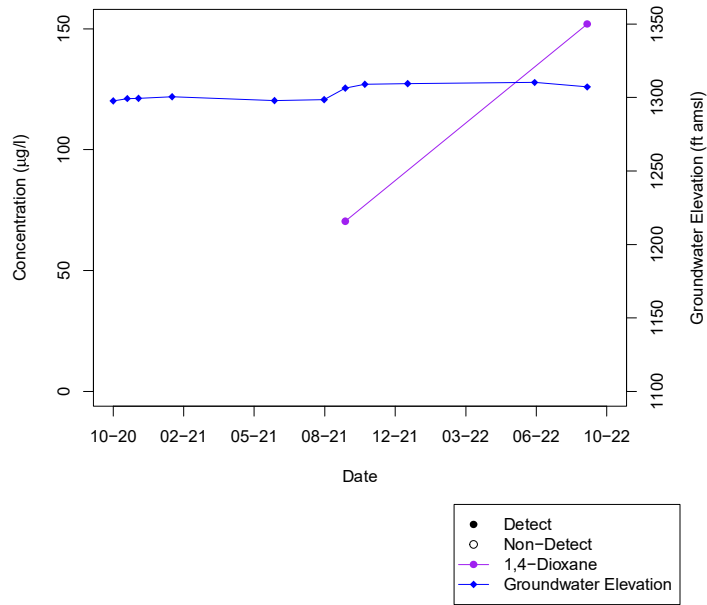
TTU-17



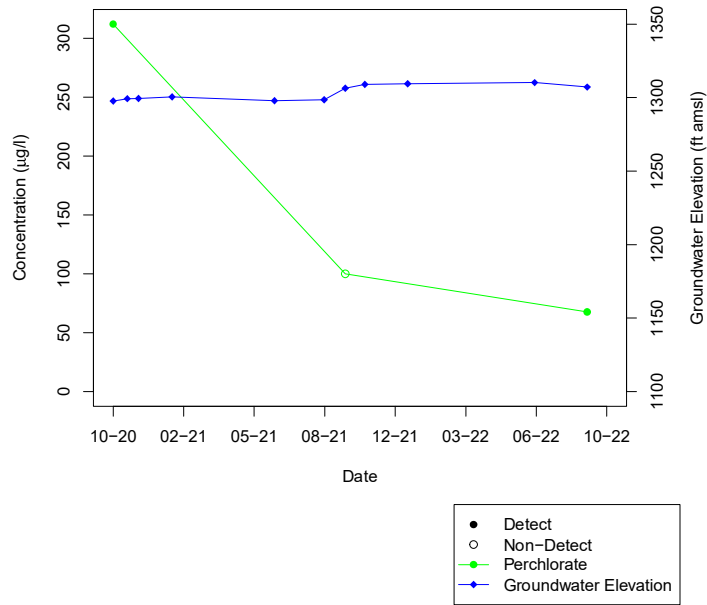
TTU-17



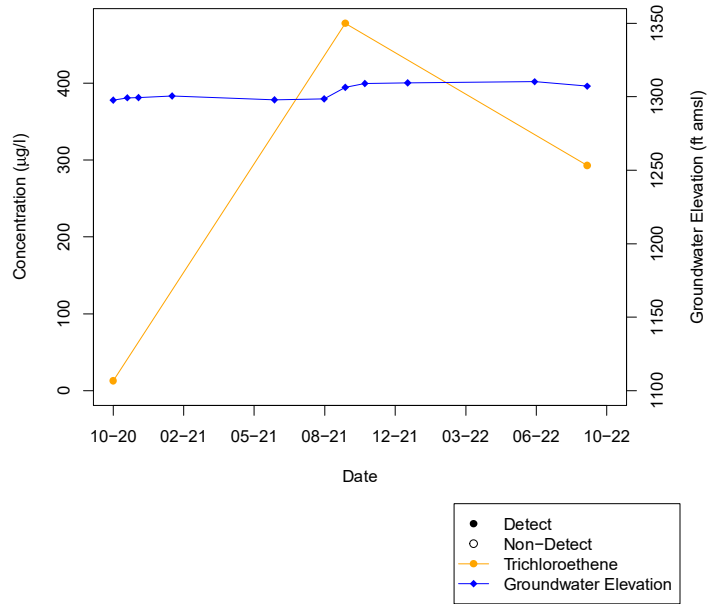
TTU-19



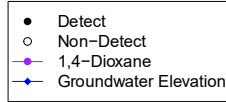
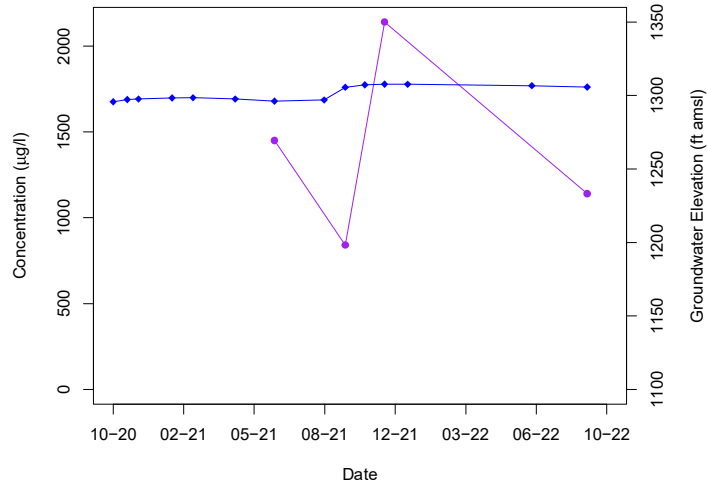
TTU-19



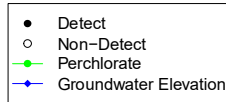
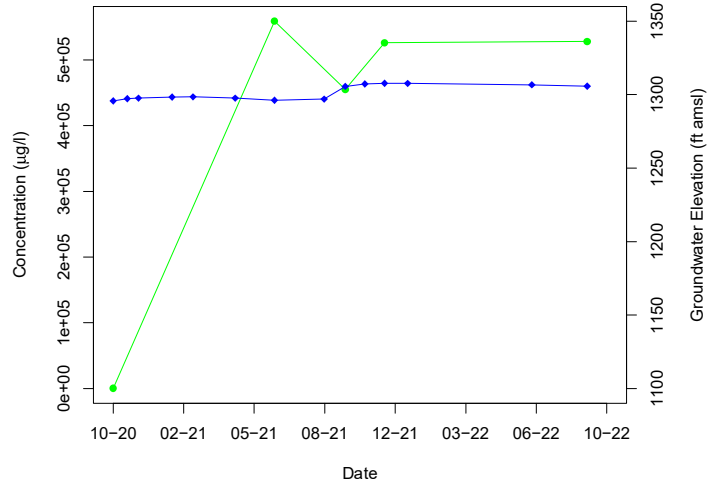
TTU-19



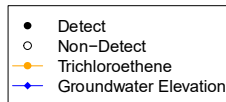
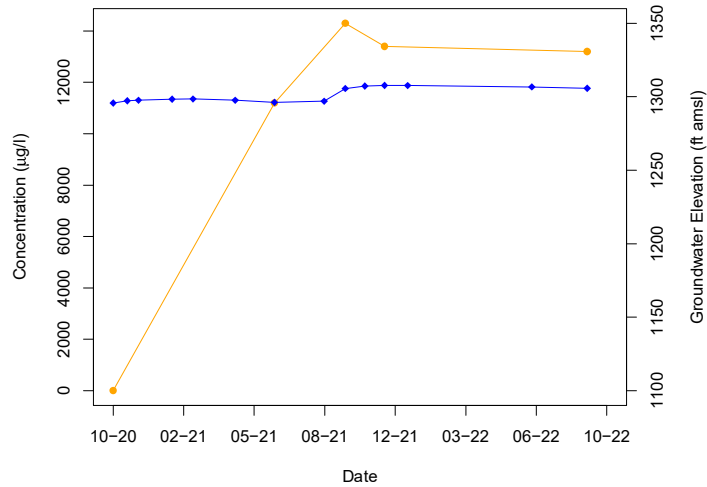
TTU-20



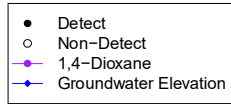
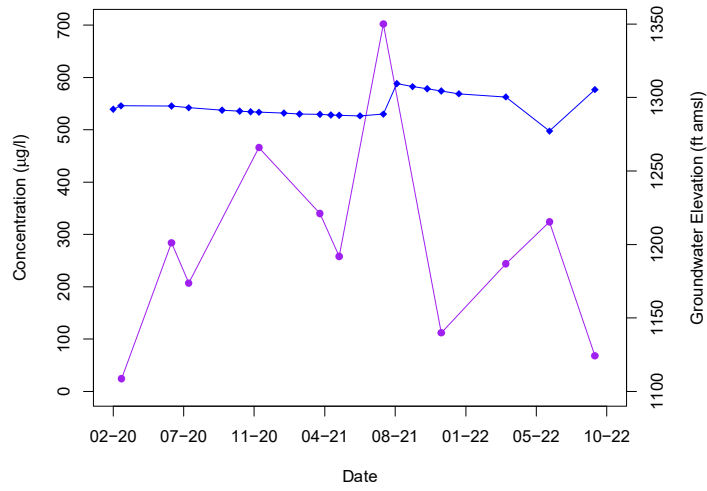
TTU-20



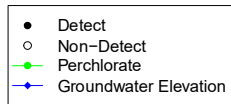
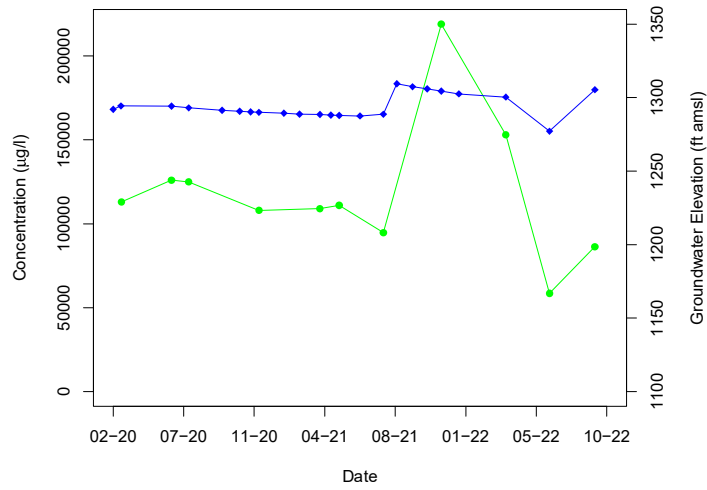
TTU-20



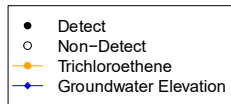
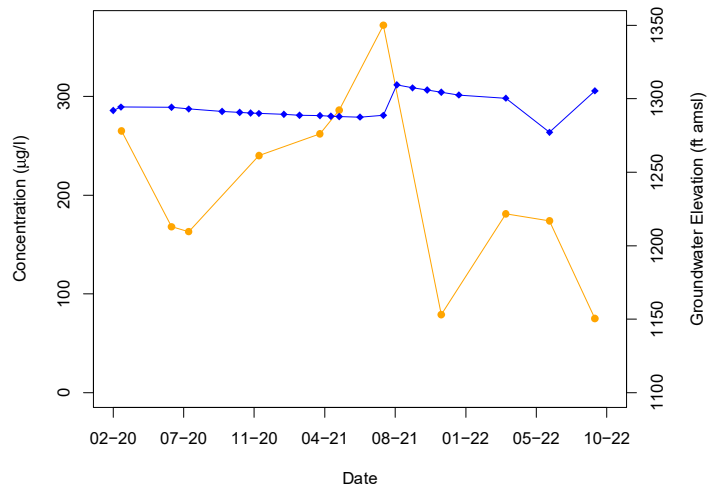
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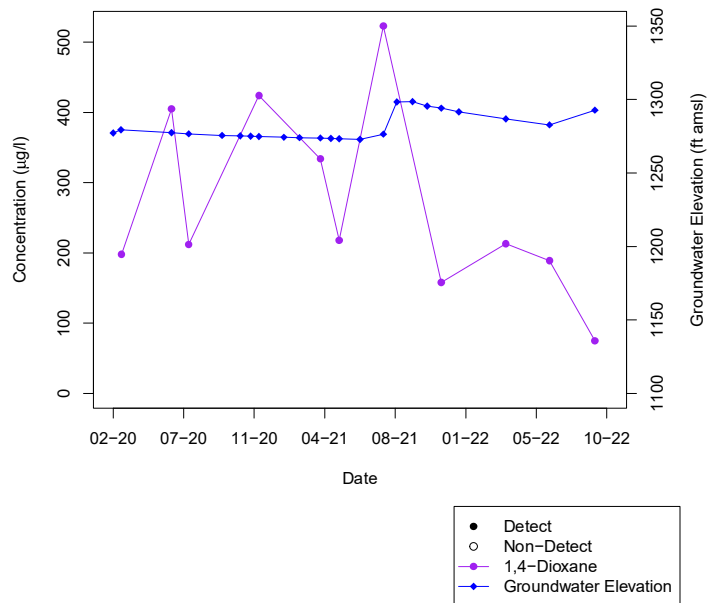
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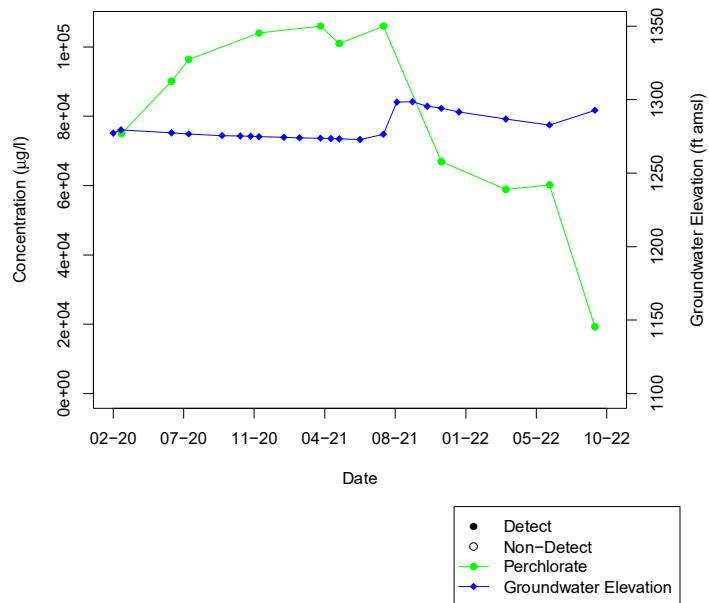
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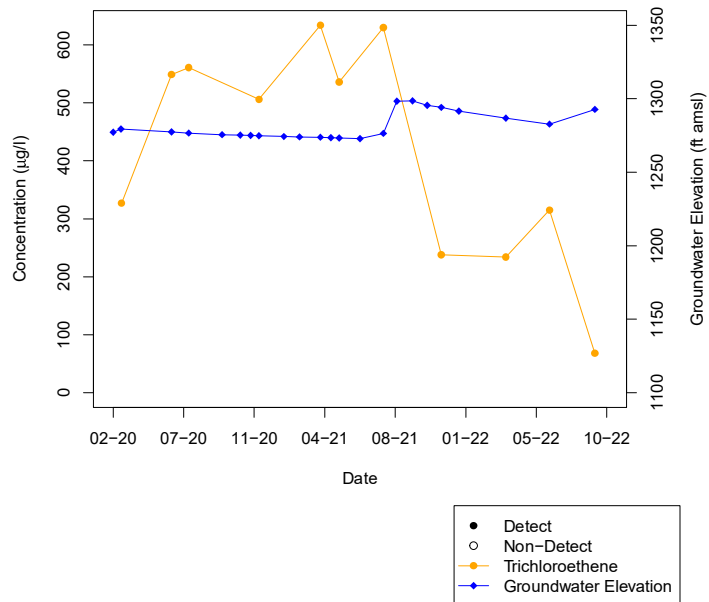
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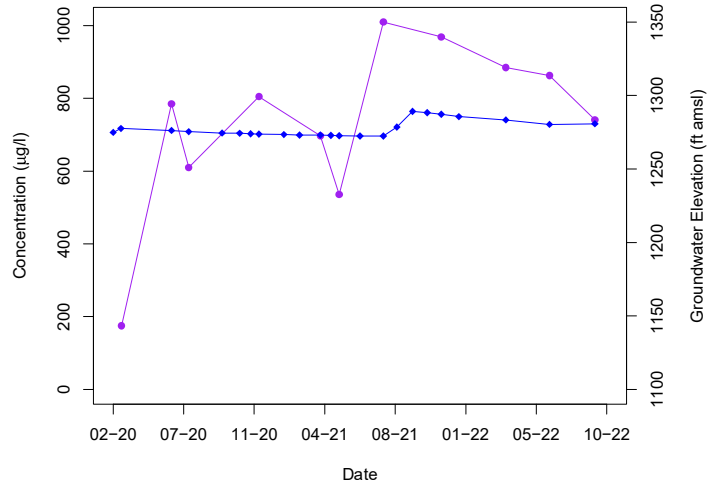
TTU-EX-2



TTU-EX-2

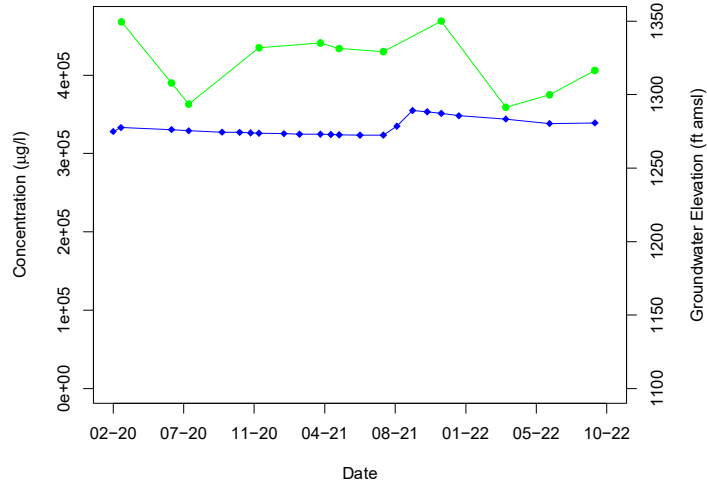


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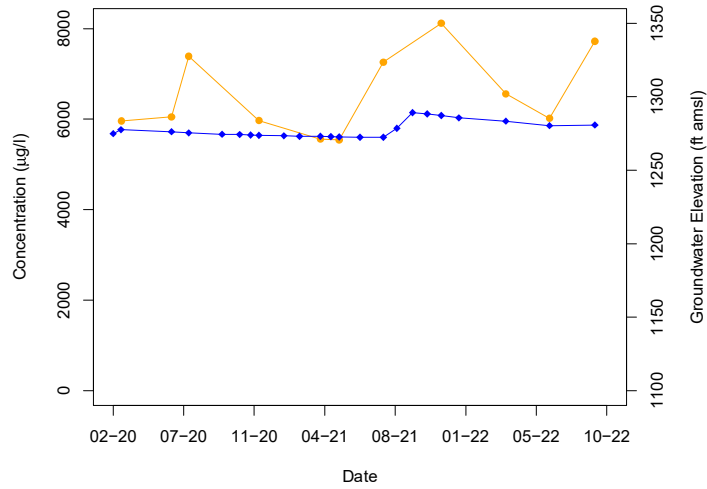
- Detect
- Non-Detect
- 1,4-Dioxane
- Groundwater Elevation

TTU-EX-3



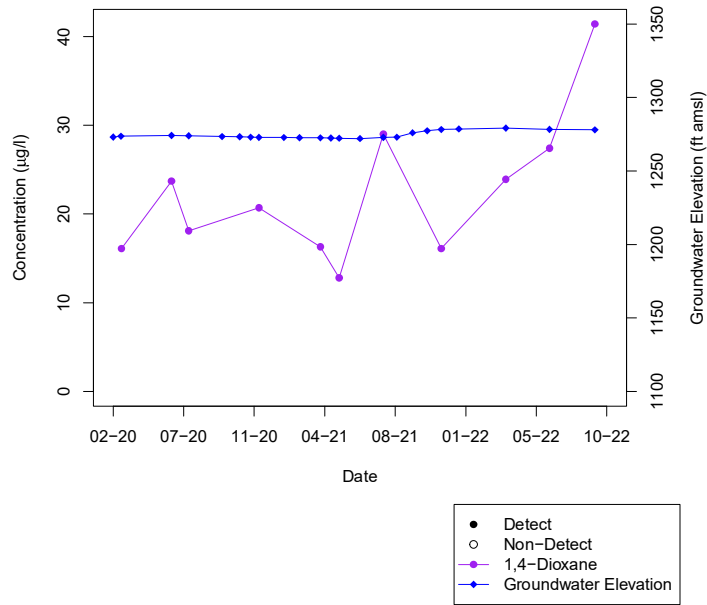
- Detect
- Non-Detect
- Perchlorate
- Groundwater Elevation

TTU-EX-3

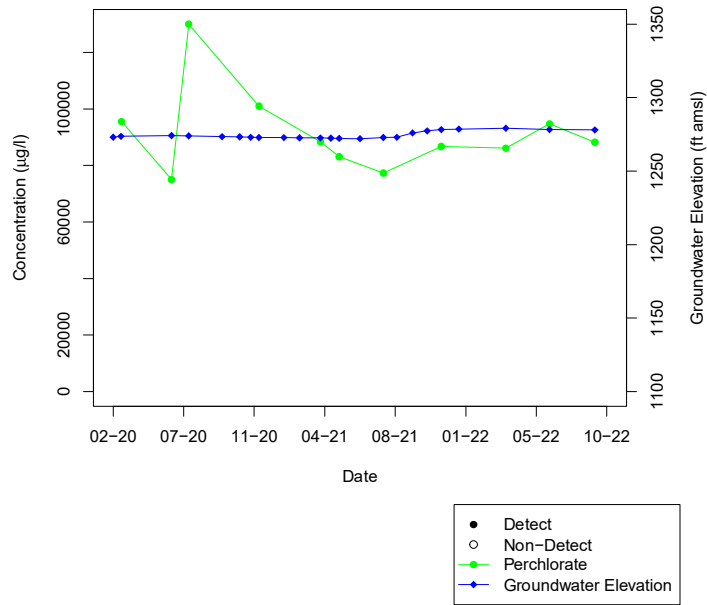


- Detect
- Non-Detect
- Trichloroethene
- Groundwater Elevation

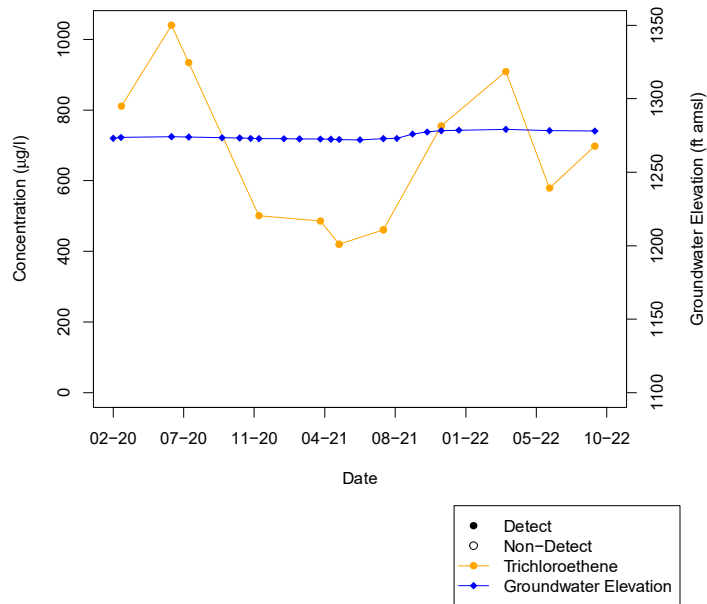
TTU-EX-4



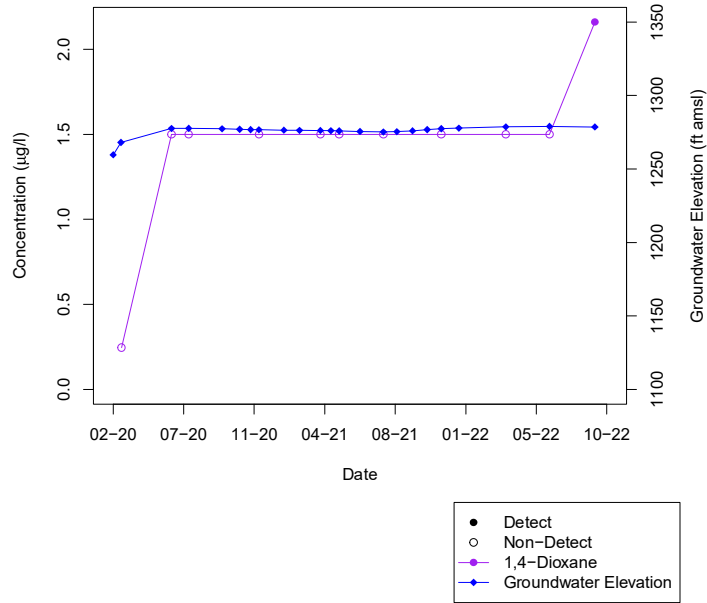
TTU-EX-4



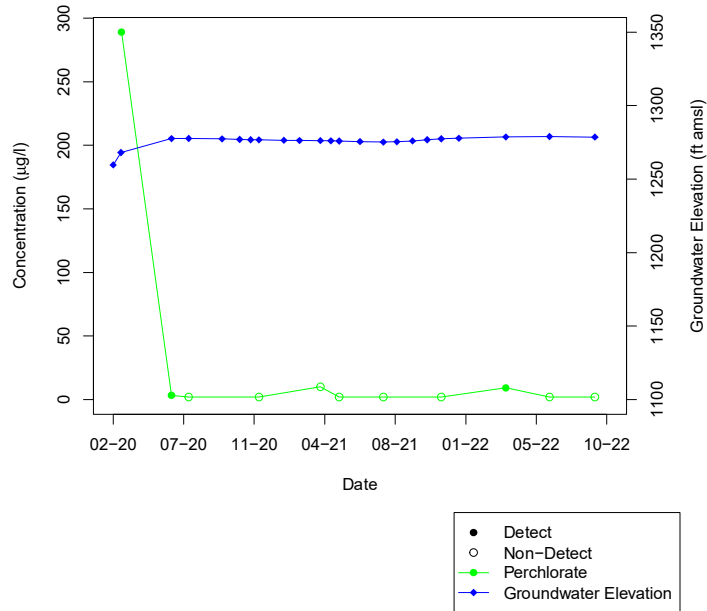
TTU-EX-4



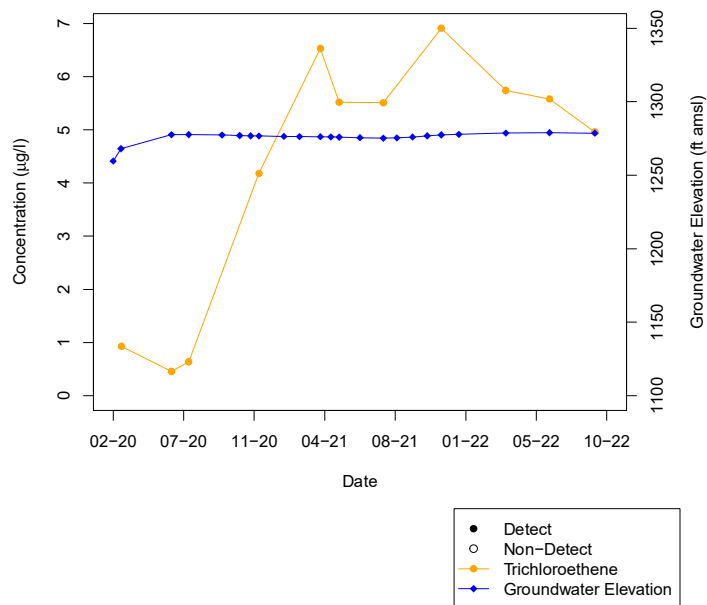
TTU-EX-5



TTU-EX-5



TTU-EX-5



Attachment 5 – Data Validation Memo

Memorandum

Date: November 18, 2022
To: Angel Soto, Nammo Defense Systems Inc.
From: Mary G. Weiss
Subject: Nammo Defense Systems (NDS) Inc. – Former Thermal Treatment Unit (TTU) Third Quarter 2022 Groundwater Sampling
Tier IA Data Validation – Level II Data Deliverables, Pace Analytical Sample Delivery Groups (SDGs) L1533315, L1534502, L1545901, 550-190229-1

Introduction

Pinyon Environmental, Inc. (Pinyon), completed groundwater sampling activities for the Nammo Defense Systems (NDS) Inc. Former Thermal Treatment Unit (TTU) Site in September and October of 2022. Subsequently, Pinyon performed a Tier IA data validation of the groundwater samples collected during the sampling event as part of the NDS TTU third quarter 2022 reporting.

Analytical data was reviewed by Pinyon based on the following documents:

Quality Assurance Project Plan, Nammo Defense Systems Inc. Facility, Mesa Arizona, April 28, 2022

United States Environmental Protection Agency (EPA) National Functional Guidelines for Organic Superfund Methods Data Review, January 2017 (EPA-540-R-2017-002)

Draft Region 9 Superfund Data Evaluation/Validation Guidance, December 2001 (R9QA/006.1)

Arizona Department of Environmental Quality (ADEQ) Remedial Projects Section Quality Assurance Program Plan (QAPP), February 2017

To reduce the occurrence of transcription errors, Pinyon has retained the laboratory qualifiers for use in the completed data validation rather than adhering to the data qualifiers defined in the *Quality Assurance Project Plan: Nammo Defense Systems Inc. Facility, (NDS Facility QAPP)*.

Preliminary Review

Groundwater samples were submitted to Pace Analytical Laboratory (Pace), Mount Juliet, Tennessee under Pinyon chain-of-custody (COC) for the following analyses:

- Perchlorate by EPA Modified Method 314.0
- Perchlorate by EPA Method 6850 (PF-2 only)
- Volatile Organic Compounds (VOCs) by EPA Method 8260B
- 1,4-Dioxane by EPA Method 8260B using selective ion monitoring (SIM) mode

Data Validation Technical Memorandum

Nammo Defense Systems (NDS) Inc. – Water Bore-out (WBO)
Third Quarter 2022 Groundwater Sampling

Quarter 3 2022 – September and October 2022

A total of 26 primary samples, 4 duplicate samples, 3 trip blank samples, and 4 Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples were collected between September 3 and October 11, 2022 (Table 1). The samples were relinquished to a representative at the laboratory on September 6, September 9, and October 11.

Samples arrived at the laboratory for analysis on September 7, September 9, September 10, and October 13. Upon arrival at the laboratory for analysis, the temperatures of the coolers were recorded. Sample temperatures ranged between 1.1°C and 4.5°C. The laboratory noted that one trip blank per batch was received and preserved with hydrochloric acid (HCl).

The collection times for the trip blanks were not recorded on the COC. The laboratory assigned the following dates and times to the trip blanks samples:

- TRIP BLANK 2 (LI533315-05) – 9/3/22 00:00
- TRIP BLANK (LI545901-04) – 10/11/22 00:00
- TRIP BLANK (LI534502-23) – 9/8/22 00:00

The laboratory made note of “No extra volume received to perform Matrix Spike samples” for analysis of VOCs by 8260B or 1,4-dioxane by 8260B-SIM for the following samples:

- LI533315-01 (TTU-11-73-20220903)
- LI533315-02 (TTU-19-73-20220903)
- LI533315-04 (DUP-01)
- LI534502-01 (TTU-EXT-1-69-20220908)
- LI534502-02 (TTU-EXT-2-74-20220908)
- LI534502-04 (TTU-EXT-4-77-20220908)
- LI534502-20 (TTU-16-80-20220908)

Based on conversations with the laboratory, there was no extra sample volume to rerun MS samples for original samples that required dilution; however, there was sufficient volume to run the original sample. As one MS/MSD was reported for the sample delivery groups (SDGs) associated with the above samples, laboratory quality control requirements were met.

The laboratory made note of “pH outside of method requirement” for analysis of VOCs by 8260B for LI533315-01 (TTU-11-73-20220903) and LI533315-02 (TTU-19-73-20220903). Based on conversations with the laboratory, the above items are the result of the sample having a pH greater than 2 standardized units (S.U.) upon receipt. According to the laboratory, the sample can be analyzed by 8260B as deviations of pH impact the extent of a sample’s hold time but not reported concentration. As the sample as analyzed within hold time, the above item does not impact sample validity.

The laboratory utilized a subcontractor laboratory to analyze the laboratory sample 550-190229-1 (PF-2) for perchlorate by EPA Method 6850. The sample was placed under Pace COC and submitted to Eurofins Scientific (Eurofins), Phoenix, Arizona. The sample was relinquished to a representative of the laboratory on September 9 and arrived at the laboratory for analysis on September 10, 2022. Upon arrival at the laboratory for analysis, the temperature of the cooler was recorded and noted as 1.6°C.

Data Validation Technical Memorandum

Equipment Blanks

Table 4 in the NDS Facility QAPP specifies that equipment blanks should be collected at a rate of one per day when non-dedicated equipment is used. Non-dedicated equipment was not used for the quarterly sampling event; therefore, equipment blanks were not collected.

Perchlorate

Overall Assessment

The samples were analyzed for perchlorate by EPA Methods 314.0 and 6850 (Table I). The data reported for perchlorate are considered to be usable with the identified qualifiers. Results for the target analytes for this specific project are usable and valid.

Preservation and Holding Times

Holding times (time between sample collection and analysis) for the samples ranged from 5 to 18 days (Table 2). This is within the acceptable range of 28 days for preserved water samples.

Method Blank

One method blank was analyzed for each batch of analysis completed. This resulted in seven method blanks (batches WGI928871, WGI924008, WGI929502, WGI931315, WGI930280, WGI944313, and 616859). Perchlorate was not detected in the method blank above the laboratory method reporting limit. Corresponding laboratory results were qualified as appropriate.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample sets were analyzed at the frequency for the number and types of samples analyzed (one MS/MSD set per batch of 20 samples). Five sample MS/MSD sets were reported using samples L1533315-02 (TTU-19), L1534502-19 (TTU-15), L1534502-10 (TTU-6), L1534502-22 (PF-2), and L1545901-01 (TTU-2). Eight sample set specific MSs were reported using samples L1533315-01 (TTU-11), L1534502-07 (TTU-3), L1534502-08 (TTU-4), L1534502-09 (TTU-5), L1534502-11 (TTU-7), L1534502-12 (TTU-8), L1534502-13 (DUP-03), and L1534502-14 (TTU-9A).

The percent recovery (%R) and relative percent difference (RPD) results for the MS samples and MS/MSD sample sets were within the limits stated in the laboratory report or results were appropriately qualified. The qualifiers were applied to the MS, MSD, and corresponding sample results as appropriate.

Laboratory Control Sample (LCS)

One laboratory control sample (LCS) was analyzed for each batch of analysis completed, resulting in seven LCSs. The %R and RPD results were within the limits stated in the laboratory report or results were appropriately qualified. The qualifiers were applied to the LCS, and corresponding sample results as appropriate.

Laboratory Duplicate

Three laboratory duplicates were analyzed. The laboratory duplicates were analyzed using original sample from Lab IDs L1534502-02 (TTU- EXT-2), L1534502-15 (TTU-10), and L1545901-02 (TTU-1) for perchlorate. The RPD results were within the limits stated in the laboratory report or results were appropriately qualified.

Data Validation Technical Memorandum

Field Duplicate

A total of four field duplicates were collected and analyzed (Table 3). This meets the requirements of 1 per batch of 20 samples. The field duplicates match as follows:

- L1533315-04 (DUP-01) = L1533315-03 (TTU-20)
- L1534502-06 (DUP-02) = L1534502-05 (TTU-EXT-5)
- L1534502-13 (DUP-03) = L1534502-12 (TTU-8)
- L1545901-03 (DUP-1) = L1545901-02 (TTU-1)

For the samples and duplicates in the above list, perchlorate was not detected in the duplicate pair for laboratory sample L1534502-05 (TTU-EXT-5). Perchlorate was not detected in the original sample, but was detected in the duplicate for laboratory sample L1534502-12 (TTU-8). The RPD was not calculated for those results.

The RPD was calculated in accordance with the method discussed in the NDS Facility QAPP. RPD for each pair was up to 2%. The RPD results were within acceptable precision limits as RPDs were less than or equal to 30% and were appropriately qualified. The results for perchlorate for L1534502-13 (DUP-03) were qualified as “J” (the identification of the analyte is acceptable; the reported value is an estimate). This qualifier does not impact the validity of the results.

Sensitivity

The samples were reported to MDLs and no elevated non-detect results were reported. MDLs and RDLs for perchlorate met the respective Arizona Department of Environmental Quality (ADEQ) Health-Based Guidance Level (HBGL) of 14 µg/L in Table 2 of the NDS Facility QAPP. Concentrations greater than the MDL and less than the RDL were flagged by the laboratory with J to indicate the concentrations were estimated.

VOCs

Overall Assessment

The samples were analyzed for VOCs by EPA Method 8260B (Table 1 **Error! Reference source not found.**). The data reported for VOCs are considered to be usable with the identified qualifiers. Results for the target analytes for this specific project are usable and valid.

Holding Times

Holding times (time between sample collection and analysis) for the samples ranged from 4 to 13 days (Table 2). This is within the acceptable range of 14 days for preserved water samples.

Method Blank

One method blank was analyzed for each batch of analysis completed. This resulted in eight method blanks (batches WGI924204, WGI925636, WGI925641, WGI926858, WGI926870, WGI927005, WGI928174, and WGI943510).

VOCs were not detected in the method blanks above the laboratory method reporting limit. Corresponding laboratory results were qualified as appropriate.

MS/MSD

The MS/MSD sample sets were analyzed at the frequency for the number and types of samples analyzed (one MS/MSD set per batch of 20 samples). Four sample MS/MSD sets were reported using samples L1533315-02 (TTU-19), L1534502-10 (TTU-6), L1534502-19 (TTU-15), and L1545901-01 (TTU-2).

The %R and RPD results were within the limits stated in the laboratory report or results were appropriately qualified. The qualifiers were applied to the MS, MSD, and corresponding sample results as appropriate.

LCS

One laboratory control sample/laboratory control sample duplicate (LCS/LCSD) was analyzed for each batch of analysis completed, resulting in eight LCS/LCSD. The %R and RPD results were within the limits stated in the laboratory report or results were appropriately qualified. The qualifiers were applied to the LCS, LCSD, and corresponding sample results as appropriate.

Surrogates

The surrogate recoveries were within the limits stated in the laboratory reports for the SDGs.

Field Duplicate

A total of four field duplicates were collected and analyzed (Table 3). This meets the requirements of 1 per batch of 20 samples. The field duplicates match as follows:

- L1533315-04 (DUP-01) = L1533315-03 (TTU-20)
- L1534502-06 (DUP-02) = L1534502-05 (TTU-EXT-5)
- L1534502-13 (DUP-03) = L1534502-12 (TTU-8)
- L1545901-03 (DUP-1) = L1545901-02 (TTU-1)

For the duplicate pairs in the above list, the following analytes were detected in duplicate L1533315-04 (DUP-01) and not detected in the original sample L1533315-03 (TTU-20):

- 1,1,2-Trichloroethane
- 1,2-Dichloroethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Diisopropyl ether

Data Validation Technical Memorandum

- Tetrachloroethene
- Vinyl chloride
- Toluene

The following analytes were detected in original sample L1533315-03 (TTU-20) and not detected in duplicate L1533315-04 (DUP-01):

- 4-Ethyltoluene
- Naphthalene
- 1,2,3-Trimethylbenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene

VOCs were neither detected in the original sample L1534502-12 (TTU-8) nor the duplicate L1534502-13 (DUP-03). The RPD was not calculated for those results where the analyte was not detected in the original sample or the duplicate sample.

For the remaining samples and analytes, The RPD was calculated in accordance with the method discussed in the NDS Facility QAPP. RPD for each pair was up to 27%, excluding results for total xylene for the sample and duplicate from TTU-20. These results were qualified with a “J” (the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample). Two duplicate pairs had results reported as estimated concentrations (laboratory qualifier “J”). The results for trichloroethene, 1,1,2-trichloroethane, trans-1,2-dichloroethene, and 1,1-dichloroethene for L1533315-03 (TTU-20) and L1533315-04 (DUP-01) were qualified as “J4” (the associated batch QC was outside the established quality control range for accuracy). This does not impact the validity of the results. The laboratory results were appropriately qualified.

Trip Blank

Three trip blanks were collected during the sampling event. Trip blanks are a requirement of the NDS Facility QAPP. Toluene was detected in the trip blank (L1545901-04) above MDLs but below RDLs and is considered to be estimated values. This does not impact the validity of the results. The laboratory results were appropriately qualified.

Sensitivity

The samples were reported to MDLs. Elevated non-detect results were reported for samples L1534502-03 (TTU-EXT-3), L1534502-04 (TTU-EXT-4), L1534502-16 (TTU-12), L1534502-20 (TTU-16), and L1545901-01 (TTU-2) due to the dilutions analyzed. Undiluted MDLs and RDLs for 1,1-dichloroethene met the AWQS of 7.0 µg/L in Table 2 of the QAPP. Concentrations greater than the MDL and less than the RDL were flagged by the laboratory with “J” to indicate the concentrations were estimated.

Data Validation Technical Memorandum

1,4-Dioxane

Overall Assessment

The samples were analyzed for 1,4-dioxane by EPA Method 8260B-SIM (Table 1). The data reported for 1,4-dioxane is considered to be usable with the identified qualifiers. Results for the target analytes for this specific project are usable and valid.

Holding Times

Holding times (time between sample collection and analysis) for the samples ranged from 2 to 17 days (Table 2). Samples LI533315-02 (TTU-19), LI533315-03 (TTU-20), and LI533315-04 (DUP-01) were reported by the laboratory as analyzed outside of the acceptable range of 14 days for preserved water samples. Per conversations with the laboratory, the inconsistency is the result of a need to complete two rounds of analysis for the samples. According to the laboratory, the internal standard utilized during the analysis ran out. Data from the first analysis would not be accurate; therefore, a second analysis was completed. As the results reported for the three samples are within historical concentrations for 1,4-dioxane for each respective well, the results for these three wells are considered usable and valid.

Method Blank

One method blank was analyzed for each batch of analysis completed. This resulted in seven method blanks (batches WGI926249, WGI926871, WGI928694, WGI928820, WGI930191, WGI930402, and WGI942212). Concentrations of 1,4-dioxane were not detected in the method blanks above the laboratory method reporting limit. Corresponding laboratory results were qualified as appropriate.

MS/MSD

The MS/MSD sample sets were analyzed at the frequency for the number and types of samples analyzed (one MS/MSD set per batch of 20 samples). Four sample MS/MSD sets were reported using samples LI533315-02 (TTU-19), LI534502-10 (TTU-6), LI534502-19 (TTU-15), and LI545901-01 (TTU-2).

The %R and RPD results were within the limits stated in the laboratory report or results were appropriately qualified. The qualifiers were applied to the MS, MSD, and corresponding sample results as appropriate.

LCS

One LCS/LCSD was analyzed for each batch of analysis completed, resulting in seven LCS/LCSD. The %R and RPD results were within the limits stated in the laboratory report or results were appropriately qualified. The qualifiers were applied to the LCS, LCSD, and corresponding sample results as appropriate.

Field Duplicate

A total of four field duplicates were collected and analyzed (Table 3). This meets the requirements of 1 per batch of 20 samples. The field duplicates match as follows:

- LI533315-04 (DUP-01) = LI533315-03 (TTU-20)
- LI534502-06 (DUP-02) = LI534502-05 (TTU-EXT-5)

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- L1534502-13 (DUP-03) = L1534502-12 (TTU-8)
- L1545901-03 (DUP-1) = L1545901-02 (TTU-1)

1,4-dioxane was neither detected in original sample L1534502-12 (TTU-8) nor duplicate sample L1534502-13 (DUP-03). 1,4-dioxane was detected in original sample L1534502-05 (TTU-EXT-5), but not in duplicate sample L1534502-06 (DUP-02). The RPD was not calculated for these results.

The RPD was calculated in accordance with the method discussed in the NDS Facility QAPP. RPD for each pair was up to 9%. Qualifiers were applied to the field duplicates and corresponding sample results as appropriate.

Sensitivity

The samples were reported to MDLs, and no elevated non-detect results were reported. Site specific technical and regulatory standards for 1,4-dioxane were not included in Table 2 of the NDS Facility QAPP.

Tables:

- Table 1. Sample Summary
- Table 2. Analysis Summary
- Table 3. Field Duplicates – Detections Only

Table I
Sample Summary
Nammo Defense Systems
Former Thermal Treatment Unit
Third Quarter 2022 Groundwater Sampling

| Laboratory Sample ID | Client Sample ID | Sample Location | Sample Depth (feet) | Sample Type | Matrix | Date Collected | Requested Analysis | | | |
|----------------------|-----------------------|-----------------|---------------------|-------------|--------|----------------|--------------------|-------------|-------------|-------------|
| | | | | | | | VOCs | I,4-Dioxane | Perchlorate | Perchlorate |
| | | | | | | | 8260B | 8260B SIM | 314.0 Mod | 6850 |
| LI533315-01 | TTU-11-73-20220903 | TTU-11 | 73 | Normal | Water | 9/3/2022 | X | X | X | - |
| R3838899-3 | TTU-11-73-20220903 | TTU-11 | NA | MS | Water | NA | - | - | X | - |
| LI533315-02 | TTU-19-73-20220903 | TTU-19 | 73 | Normal | Water | 9/3/2022 | X | X | X | - |
| R3837604-8 | TTU-19-73-20220903 | TTU-19 | NA | MS | Water | NA | X | - | - | - |
| R3837604-9 | TTU-19-73-20220903 | TTU-19 | NA | MS_D | Water | NA | X | - | - | - |
| R3837798-5 | TTU-19-73-20220903 | TTU-19 | NA | LAB_D | Water | NA | - | - | X | - |
| R3837798-10 | TTU-19-73-20220903 | TTU-19 | NA | MS | Water | NA | - | - | X | - |
| R3837798-11 | TTU-19-73-20220903 | TTU-19 | NA | MS_D | Water | NA | - | - | X | - |
| R3839351-4 | TTU-19-73-20220903 | TTU-19 | NA | MS | Water | NA | - | X | - | - |
| R3839351-5 | TTU-19-73-20220903 | TTU-19 | NA | MS_D | Water | NA | - | X | - | - |
| LI533315-03 | TTU-20-73-20220903 | TTU-20 | 73 | Normal | Water | 9/3/2022 | X | X | X | - |
| LI533315-04 | DUP-01 | DUP-01 | NR | Normal | Water | 9/3/2022 | X | X | X | - |
| LI533315-05 | TRIP BLANK 2 | TRIP BLANK 2 | NR | Normal | Water | 9/3/2022 | X | - | - | - |
| LI534502-01 | TTU-EXT-1-69-20220908 | TTU-EX-1 | 69 | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-02 | TTU-EXT-2-74-20220908 | TTU-EX-2 | 74 | Normal | Water | 9/8/2022 | X | X | X | - |
| R3840607-3 | TTU-EXT-2-74-20220908 | TTU-EX-2 | NA | LAB_D | Water | NA | - | - | X | - |
| LI534502-03 | TTU-EXT-3-76-20220908 | TTU-EX-3 | 76 | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-04 | TTU-EXT-4-77-20220908 | TTU-EX-4 | 77 | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-05 | TTU-EXT-5-80-20220908 | TTU-EX-5 | 80 | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-06 | DUP-02 | DUP-02 | NR | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-07 | TTU-3-108-20220909 | TTU-3 | 108 | Normal | Water | 9/9/2022 | X | X | X | - |
| R3840609-3 | TTU-3-108-20220909 | TTU-3 | NA | MS | Water | NA | - | - | X | - |
| LI534502-08 | TTU-4-57-20220909 | TTU-4 | 57 | Normal | Water | 9/9/2022 | X | X | X | - |
| R3840609-4 | TTU-4-57-20220909 | TTU-4 | NA | MS | Water | NA | - | - | X | - |
| LI534502-09 | TTU-5-110-20220908 | TTU-5 | 110 | Normal | Water | 9/8/2022 | X | X | X | - |
| R3840609-5 | TTU-5-110-20220908 | TTU-5 | NA | MS | Water | NA | - | - | X | - |
| LI534502-10 | TTU-6-143-20220909 | TTU-6 | 143 | Normal | Water | 9/9/2022 | X | X | X | - |
| R3837498-4 | TTU-6-143-20220909 | TTU-6 | NA | MS | Water | NA | X | - | - | - |
| R3837498-5 | TTU-6-143-20220909 | TTU-6 | NA | MS_D | Water | NA | X | - | - | - |
| R3839848-4 | TTU-6-143-20220909 | TTU-6 | NA | MS | Water | NA | - | X | - | - |
| R3839848-5 | TTU-6-143-20220909 | TTU-6 | NA | MS_D | Water | NA | - | X | - | - |
| R3840607-4 | TTU-6-143-20220909 | TTU-6 | NA | MS | Water | NA | - | - | X | - |
| R3840607-5 | TTU-6-143-20220909 | TTU-6 | NA | MS_D | Water | NA | - | - | X | - |
| LI534502-11 | TTU-7-345-20220909 | TTU-7 | 345 | Normal | Water | 9/9/2022 | X | X | X | - |
| R3840609-6 | TTU-7-345-20220909 | TTU-7 | NA | MS | Water | NA | - | - | X | - |
| LI534502-12 | TTU-8-164-20220909 | TTU-8 | 164 | Normal | Water | 9/9/2022 | X | X | X | - |
| R3840609-7 | TTU-8-164-20220909 | TTU-8 | NA | MS | Water | NA | - | - | X | - |
| LI534502-13 | DUP-03 | DUP-03 | NR | Normal | Water | 9/9/2022 | X | X | X | - |
| R3840609-8 | DUP-03 | DUP-03 | NA | MS | Water | NA | - | - | X | - |
| LI534502-14 | TTU-9A-61-20220908 | TTU-9A | 61 | Normal | Water | 9/8/2022 | X | X | X | - |
| R3840609-9 | TTU-9A-61-20220908 | TTU-9A | NA | MS | Water | NA | - | - | X | - |
| LI534502-15 | TTU-10-165-20220909 | TTU-10 | 165 | Normal | Water | 9/9/2022 | X | X | X | - |
| R3840607-6 | TTU-10-165-20220909 | TTU-10 | NA | LAB_D | Water | NA | - | - | X | - |
| LI534502-16 | TTU-12-82-20220909 | TTU-12 | 82 | Normal | Water | 9/9/2022 | X | X | X | - |
| LI534502-17 | TTU-13-51-20220908 | TTU-13 | 51 | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-18 | TTU-14-64-20220909 | TTU-14 | 64 | Normal | Water | 9/9/2022 | X | X | X | - |
| LI534502-19 | TTU-15-75-20220908 | TTU-15 | 75 | Normal | Water | 9/8/2022 | X | X | X | - |
| R3838411-4 | TTU-15-75-20220908 | TTU-15 | NA | MS | Water | NA | X | - | - | - |
| R3838411-5 | TTU-15-75-20220908 | TTU-15 | NA | MS_D | Water | NA | X | - | - | - |
| R3840607-7 | TTU-15-75-20220908 | TTU-15 | NA | MS | Water | NA | - | - | X | - |
| R3840607-8 | TTU-15-75-20220908 | TTU-15 | NA | MS_D | Water | NA | - | - | X | - |
| R3840618-4 | TTU-15-75-20220908 | TTU-15 | NA | MS | Water | NA | - | X | - | - |
| R3840618-5 | TTU-15-75-20220908 | TTU-15 | NA | MS_D | Water | NA | - | X | - | - |
| LI534502-20 | TTU-16-80-20220908 | TTU-16 | 80 | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-21 | TTU-17-80-20220908 | TTU-17 | 80 | Normal | Water | 9/8/2022 | X | X | X | - |
| LI534502-22 | PF-2-400-20220909 | PF-2 | 400 | Normal | Water | 9/9/2022 | X | X | - | - |
| LI534502-23 | TRIP BLANK | TRIP BLANK | NR | Normal | Water | 9/8/2022 | X | - | - | - |
| 550-190229-1 | PF-2-400-20220909 | PF-2 | 400 | Normal | Water | 9/9/2022 | - | - | - | X |
| 550-190229-1 MS | PF-2-400-20220909 | PF-2 | NA | MS | Water | NA | - | - | - | X |
| 550-190229-1 MSD | PF-2-400-20220909 | PF-2 | NA | MS_D | Water | NA | - | - | - | X |

Table I
Sample Summary
Nammo Defense Systems
Former Thermal Treatment Unit
Third Quarter 2022 Groundwater Sampling

| Laboratory Sample ID | Client Sample ID | Sample Location | Sample Depth (feet) | Sample Type | Matrix | Date Collected | Requested Analysis | | | |
|----------------------|--------------------|-----------------|---------------------|-------------|--------|----------------|--------------------|-------------|-------------|-------------|
| | | | | | | | VOCs | I,4-Dioxane | Perchlorate | Perchlorate |
| | | | | | | | 8260B | 8260B SIM | 314.0 Mod | 6850 |
| LI545901-01 | TTU-2-114-20221010 | TTU-2 | 114 | Normal | Water | 10/10/2022 | X | X | X | - |
| R3849991-4 | TTU-2-114-20221010 | TTU-2 | NA | MS | Water | NA | - | X | - | - |
| R3849991-5 | TTU-2-114-20221010 | TTU-2 | NA | MS_D | Water | NA | - | X | - | - |
| R3850102-3 | TTU-2-114-20221010 | TTU-2 | NA | MS | Water | NA | - | - | X | - |
| R3850102-4 | TTU-2-114-20221010 | TTU-2 | NA | MS_D | Water | NA | - | - | X | - |
| R3850916-4 | TTU-2-114-20221010 | TTU-2 | NA | MS | Water | NA | X | - | - | - |
| R3850916-5 | TTU-2-114-20221010 | TTU-2 | NA | MS_D | Water | NA | X | - | - | - |
| LI545901-02 | TTU-1-50-20221011 | TTU-1 | 50 | Normal | Water | 10/11/2022 | X | X | X | - |
| R3850102-5 | TTU-1-50-20221011 | TTU-1 | NA | LAB_D | Water | NA | - | - | X | - |
| LI545901-03 | DUP-01 | DUP-01 | NR | Normal | Water | 10/11/2022 | X | X | X | - |
| LI545901-04 | TRIP BLANK | TRIP BLANK | NR | Normal | Water | 10/11/2022 | X | - | - | - |

Notes:

MS = Matrix Spike

MS_D = Matrix Spike Duplicate

LAB_D = Laboratory Duplicate

NR = Not Recorded

NA = Not Applicable

VOCs = Volatile Organic Compounds

SIM = Selected Ion Monitoring

Mod = Modified

- = Analysis not requested

X = Analysis requested

Table 2
Analysis Summary
Nammo Defense Systems
Former Thermal Treatment Unit
Third Quarter 2022 Groundwater Sampling

| Laboratory Sample ID | Client Sample ID | Date Collected | Preparation Date | Date Analyzed | Analysis Batch | Holding Time (days) | Notes |
|--|-----------------------|----------------|------------------|---------------|----------------|---------------------|---------------------------|
| Perchlorate by 314.0 Mod | | | | | | | |
| L1533315-01 | TTU-11-73-20220903 | 9/3/2022 | 9/10/2022 | 9/10/2022 | WG1928871 | 7 | |
| L1533315-02 | TTU-19-73-20220903 | 9/3/2022 | 9/10/2022 | 9/10/2022 | WG1924008 | 7 | Sample required dilution. |
| L1533315-03 | TTU-20-73-20220903 | 9/3/2022 | 9/10/2022 | 9/10/2022 | WG1924008 | 7 | Sample required dilution. |
| L1533315-04 | DUP-01 | 9/3/2022 | 9/10/2022 | 9/10/2022 | WG1924008 | 7 | Sample required dilution. |
| L1534502-01 | TTU-EXT-1-69-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | Sample required dilution. |
| L1534502-02 | TTU-EXT-2-74-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | Sample required dilution. |
| L1534502-03 | TTU-EXT-3-76-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | Sample required dilution. |
| L1534502-04 | TTU-EXT-4-77-20220908 | 9/8/2022 | 9/23/2022 | 9/23/2022 | WG1929502 | 15 | Sample required dilution. |
| L1534502-05 | TTU-EXT-5-80-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | |
| L1534502-06 | DUP-02 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | |
| L1534502-07 | TTU-3-108-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1931315 | 13 | |
| L1534502-08 | TTU-4-57-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1931315 | 13 | |
| L1534502-09 | TTU-5-110-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1931315 | 14 | |
| L1534502-10 | TTU-6-143-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 13 | Sample required dilution. |
| L1534502-11 | TTU-7-345-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1931315 | 13 | |
| L1534502-12 | TTU-8-164-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1931315 | 13 | |
| L1534502-13 | DUP-03 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1931315 | 13 | |
| L1534502-14 | TTU-9A-61-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1931315 | 14 | |
| L1534502-15 | TTU-10-165-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 13 | |
| L1534502-16 | TTU-12-82-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 13 | Sample required dilution. |
| L1534502-17 | TTU-13-51-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | Sample required dilution. |
| L1534502-18 | TTU-14-64-20220909 | 9/9/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 13 | Sample required dilution. |
| L1534502-19 | TTU-15-75-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | Sample required dilution. |
| L1534502-20 | TTU-16-80-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1929502 | 14 | Sample required dilution. |
| L1534502-21 | TTU-17-80-20220908 | 9/8/2022 | 9/26/2022 | 9/26/2022 | WG1930280 | 18 | |
| L1545901-01 | TTU-2-114-20221010 | 10/10/2022 | 10/18/2022 | 10/18/2022 | WG1944313 | 8 | Sample required dilution. |
| L1545901-02 | TTU-1-50-20221011 | 10/11/2022 | 10/18/2022 | 10/18/2022 | WG1944313 | 7 | Sample required dilution. |
| L1545901-03 | DUP-01 | 10/11/2022 | 10/18/2022 | 10/18/2022 | WG1944313 | 7 | Sample required dilution. |
| Perchlorate by 6850 | | | | | | | |
| 550-190229-1 | PF-2-400-20220909 | 9/9/2022 | 9/13/2022 | 9/14/2022 | 616859 | 5 | |
| Volatile Organic Compounds by 8260B | | | | | | | |
| L1533315-01 | TTU-11-73-20220903 | 9/3/2022 | 9/11/2022 | 9/11/2022 | WG1924204 | 8 | Sample required dilution. |
| | | | 9/16/2022 | 9/16/2022 | WG1927005 | 13 | Sample required dilution. |
| L1533315-02 | TTU-19-73-20220903 | 9/3/2022 | 9/11/2022 | 9/11/2022 | WG1924204 | 8 | Sample required dilution. |
| | | | 9/16/2022 | 9/16/2022 | WG1927005 | 13 | Sample required dilution. |
| L1533315-03 | TTU-20-73-20220903 | 9/3/2022 | 9/16/2022 | 9/16/2022 | WG1926870 | 13 | Sample required dilution. |
| L1533315-04 | DUP-01 | 9/3/2022 | 9/10/2022 | 9/10/2022 | WG1924204 | 7 | |
| | | | 9/16/2022 | 9/16/2022 | WG1927005 | 13 | Sample required dilution. |
| L1533315-05 | TRIP BLANK 2 | 9/3/2022 | 9/10/2022 | 9/10/2022 | WG1924204 | 7 | |
| L1534502-01 | TTU-EXT-1-69-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926858 | 7 | |
| L1534502-02 | TTU-EXT-2-74-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926858 | 7 | |
| L1534502-03 | TTU-EXT-3-76-20220908 | 9/8/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 5 | Sample required dilution. |
| L1534502-04 | TTU-EXT-4-77-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926858 | 7 | Sample required dilution. |
| L1534502-05 | TTU-EXT-5-80-20220908 | 9/8/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 5 | |
| L1534502-06 | DUP-02 | 9/8/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 5 | |
| L1534502-07 | TTU-3-108-20220909 | 9/9/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 4 | |
| L1534502-08 | TTU-4-57-20220909 | 9/9/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 4 | |
| L1534502-09 | TTU-5-110-20220908 | 9/8/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 5 | |
| L1534502-10 | TTU-6-143-20220909 | 9/9/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 4 | |
| L1534502-11 | TTU-7-345-20220909 | 9/9/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 4 | |
| L1534502-12 | TTU-8-164-20220909 | 9/9/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 4 | |
| L1534502-13 | DUP-03 | 9/9/2022 | 9/13/2022 | 9/13/2022 | WG1925636 | 4 | |
| L1534502-14 | TTU-9A-61-20220908 | 9/8/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 6 | |
| L1534502-15 | TTU-10-165-20220909 | 9/9/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 5 | |
| L1534502-16 | TTU-12-82-20220909 | 9/9/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 5 | Sample required dilution. |
| L1534502-17 | TTU-13-51-20220908 | 9/8/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 6 | |
| L1534502-18 | TTU-14-64-20220909 | 9/9/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 6 | |
| | | | 9/18/2022 | 9/18/2022 | WG1928174 | 9 | Sample required dilution. |
| L1534502-19 | TTU-15-75-20220908 | 9/8/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 6 | |
| | | | 9/18/2022 | 9/18/2022 | WG1928174 | 10 | |
| L1534502-20 | TTU-16-80-20220908 | 9/8/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 6 | Sample required dilution. |
| L1534502-21 | TTU-17-80-20220908 | 9/8/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 6 | |
| | | | 9/18/2022 | 9/18/2022 | WG1928174 | 10 | |
| L1534502-22 | PF-2-400-20220909 | 9/9/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 5 | |
| L1534502-23 | TRIP BLANK | 9/8/2022 | 9/14/2022 | 9/14/2022 | WG1925641 | 5 | |

Table 2
Analysis Summary
Nammo Defense Systems
Former Thermal Treatment Unit
Third Quarter 2022 Groundwater Sampling

| Laboratory Sample ID | Client Sample ID | Date Collected | Preparation Date | Date Analyzed | Analysis Batch | Holding Time (days) | Notes |
|--|-----------------------|----------------|------------------|---------------|----------------|---------------------|---------------------------|
| Volatile Organic Compounds by 8260B | | | | | | | |
| L1545901-01 | TTU-2-114-20221010 | 10/10/2022 | 10/16/2022 | 10/16/2022 | WG1943510 | 6 | Sample required dilution. |
| L1545901-02 | TTU-1-50-20221011 | 10/11/2022 | 10/15/2022 | 10/15/2022 | WG1943510 | 4 | |
| L1545901-03 | DUP-01 | 10/11/2022 | 10/16/2022 | 10/16/2022 | WG1943510 | 5 | |
| L1545901-04 | TRIP BLANK | 10/11/2022 | 10/15/2022 | 10/15/2022 | WG1943510 | 4 | |
| 1,4-Dioxane by 8260B-SIM | | | | | | | |
| L1533315-01 | TTU-11-73-20220903 | 9/3/2022 | 9/14/2022 | 9/14/2022 | WG1926249 | 11 | |
| L1533315-02 | TTU-19-73-20220903 | 9/3/2022 | 9/20/2022 | 9/20/2022 | WG1928820 | 17 | Sample required dilution. |
| L1533315-03 | TTU-20-73-20220903 | 9/3/2022 | 9/20/2022 | 9/20/2022 | WG1928820 | 17 | Sample required dilution. |
| L1533315-04 | DUP-01 | 9/3/2022 | 9/20/2022 | 9/20/2022 | WG1928820 | 17 | Sample required dilution. |
| L1534502-01 | TTU-EXT-1-69-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-02 | TTU-EXT-2-74-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-03 | TTU-EXT-3-76-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-04 | TTU-EXT-4-77-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-05 | TTU-EXT-5-80-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-06 | DUP-02 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-07 | TTU-3-108-20220909 | 9/9/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 6 | |
| L1534502-08 | TTU-4-57-20220909 | 9/9/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 6 | |
| L1534502-09 | TTU-5-110-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-10 | TTU-6-143-20220909 | 9/9/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 6 | |
| L1534502-11 | TTU-7-345-20220909 | 9/9/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 6 | |
| L1534502-12 | TTU-8-164-20220909 | 9/9/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 6 | |
| L1534502-13 | DUP-03 | 9/9/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 6 | |
| L1534502-14 | TTU-9A-61-20220908 | 9/8/2022 | 9/15/2022 | 9/15/2022 | WG1926871 | 7 | |
| L1534502-15 | TTU-10-165-20220909 | 9/9/2022 | 9/16/2022 | 9/16/2022 | WG1926871 | 7 | |
| L1534502-16 | TTU-12-82-20220909 | 9/9/2022 | 9/16/2022 | 9/16/2022 | WG1926871 | 7 | |
| L1534502-17 | TTU-13-51-20220908 | 9/8/2022 | 9/16/2022 | 9/16/2022 | WG1926871 | 8 | |
| L1534502-18 | TTU-14-64-20220909 | 9/9/2022 | 9/16/2022 | 9/16/2022 | WG1926871 | 7 | |
| L1534502-19 | TTU-15-75-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1930402 | 14 | |
| L1534502-20 | TTU-16-80-20220908 | 9/8/2022 | 9/22/2022 | 9/22/2022 | WG1930191 | 14 | Sample required dilution. |
| L1534502-21 | TTU-17-80-20220908 | 9/8/2022 | 9/16/2022 | 9/16/2022 | WG1926871 | 8 | |
| L1534502-22 | PF-2-400-20220909 | 9/9/2022 | 9/19/2022 | 9/19/2022 | WG1928694 | 10 | |
| L1545901-01 | TTU-2-114-20221010 | 10/10/2022 | 10/13/2022 | 10/13/2022 | WG1942212 | 3 | Sample required dilution. |
| L1545901-02 | TTU-1-50-20221011 | 10/11/2022 | 10/13/2022 | 10/13/2022 | WG1942212 | 2 | |
| L1545901-03 | DUP-01 | 10/11/2022 | 10/13/2022 | 10/13/2022 | WG1942212 | 2 | |

Notes:

SIM = Selected Ion Monitoring

Mod = Modified

Table 3
Field Duplicates - Detections Only
Nammo Defense Systems
Former Thermal Treatment Unit
Third Quarter 2022 Groundwater Sampling

| Analyte | Original Sample ID | Laboratory Result (µg/L) | Laboratory Flag | Duplicate Sample ID | Duplicate Laboratory Result (µg/L) | Duplicate Laboratory Flag | RPD (%) | Laboratory Result Validation Qualifier | Duplicate Laboratory Result Validation Qualifier | Reason for Validation Qualifier |
|--------------------------|-------------------------|--------------------------|-----------------|----------------------|------------------------------------|---------------------------|---------|--|--|---------------------------------|
| Perchlorate | L1533315-03 (TTU-20) | 528,000 | - | L1533315-04 (DUP-01) | 537,000 | - | 2% | - | - | - |
| 1,1,2-Trichloroethane | L1533315-03 (TTU-20) | <15.8 | - | L1533315-04 (DUP-01) | 20.9 | J4 | NC | - | - | - |
| 1,1-Dichloroethane | L1533315-03 (TTU-20) | 27.6 | J | L1533315-04 (DUP-01) | 28.8 | - | 4% | - | - | - |
| 1,1-Dichloroethene | L1533315-03 (TTU-20) | 2,610 | J4 | L1533315-04 (DUP-01) | 2,230 | - | 16% | - | - | - |
| 1,2-Dichloroethane | L1533315-03 (TTU-20) | <8.19 | - | L1533315-04 (DUP-01) | 4.15 | - | NC | - | - | - |
| 1,2-Dichlorobenzene | L1533315-03 (TTU-20) | <10.7 | - | L1533315-04 (DUP-01) | 1.53 | - | NC | - | - | - |
| 1,3-Dichlorobenzene | L1533315-03 (TTU-20) | <11.0 | - | L1533315-04 (DUP-01) | 0.155 | J | NC | - | - | - |
| 1,4-Dichlorobenzene | L1533315-03 (TTU-20) | <12.0 | - | L1533315-04 (DUP-01) | 0.454 | J | NC | - | - | - |
| Benzene | L1533315-03 (TTU-20) | 77.9 | J | L1533315-04 (DUP-01) | 77.7 | - | 0.3% | - | - | - |
| Chloroform | L1533315-03 (TTU-20) | 17.2 | J | L1533315-04 (DUP-01) | 19.8 | - | 14% | - | - | - |
| cis-1,2-Dichloroethene | L1533315-03 (TTU-20) | 146 | - | L1533315-04 (DUP-01) | 141 | - | 3% | - | - | - |
| Diisopropyl ether | L1533315-03 (TTU-20) | <10.5 | - | L1533315-04 (DUP-01) | 0.267 | J | NC | - | - | - |
| Methyl tert-butyl ether | L1533315-03 (TTU-20) | 116 | J | L1533315-04 (DUP-01) | 112 | - | 4% | - | - | - |
| 4-Ethyltoluene | L1533315-03 (TTU-20) | 35 | J | L1533315-04 (DUP-01) | <0.208 | - | NC | - | - | - |
| Naphthalene | L1533315-03 (TTU-20) | 122 | J | L1533315-04 (DUP-01) | <1.00 | - | NC | - | - | - |
| Tetrachloroethene | L1533315-03 (TTU-20) | <30.0 | - | L1533315-04 (DUP-01) | 27.9 | - | NC | - | - | - |
| Toluene | L1533315-03 (TTU-20) | <27.8 | - | L1533315-04 (DUP-01) | 1.42 | - | NC | - | - | - |
| trans-1,2-Dichloroethene | L1533315-03 (TTU-20) | 18.9 | J; J4 | L1533315-04 (DUP-01) | 22.2 | - | 16% | - | - | - |
| Trichloroethene | L1533315-03 (TTU-20) | 13,200 | J4 | L1533315-04 (DUP-01) | 10,700 | - | 21% | - | - | - |
| 1,2,3-Trimethylbenzene | L1533315-03 (TTU-20) | 42 | J | L1533315-04 (DUP-01) | <0.104 | - | NC | - | - | - |
| 1,2,4-Trimethylbenzene | L1533315-03 (TTU-20) | 105 | - | L1533315-04 (DUP-01) | <0.322 | - | NC | - | - | - |
| 1,3,5-Trimethylbenzene | L1533315-03 (TTU-20) | 27.7 | J | L1533315-04 (DUP-01) | <0.104 | - | NC | - | - | - |
| Vinyl chloride | L1533315-03 (TTU-20) | <23.4 | - | L1533315-04 (DUP-01) | 1.87 | - | NC | - | - | - |
| Xylene Total | L1533315-03 (TTU-20) | 55.7 | J | L1533315-04 (DUP-01) | 2.65 | J | 182% | J | J | I |
| 1,4-Dioxane | L1533315-03 (TTU-20) | 1,140 | Q | L1533315-04 (DUP-01) | 1,250 | Q | 9% | - | - | - |
| cis-1,2-Dichloroethene | L1534502-05 (TTU-EXT-5) | 0.16 | J | L1534502-06 (DUP-02) | 0.209 | J | 27% | - | - | - |
| Trichloroethene | L1534502-05 (TTU-EXT-5) | 4.96 | - | L1534502-06 (DUP-02) | 5.06 | - | 2% | - | - | - |
| 1,4-Dioxane | L1534502-05 (TTU-EXT-5) | 2.16 | J | L1534502-06 (DUP-02) | <0.597 | - | NC | - | - | - |
| Perchlorate | L1534502-12 (TTU-8) | <0.300 | - | L1534502-13 (DUP-03) | 0.614 | J | NC | - | - | - |
| Perchlorate | L1545901-02 (TTU-1) | 11,300 | - | L1545901-03 (DUP-01) | 11,200 | - | 1% | - | - | - |
| 1,1-Dichloroethene | L1545901-02 (TTU-1) | 1.06 | - | L1545901-03 (DUP-01) | 1.26 | - | 17% | - | - | - |
| Trichloroethene | L1545901-02 (TTU-1) | 5.13 | - | L1545901-03 (DUP-01) | 5.85 | - | 13% | - | - | - |
| 1,4-Dioxane | L1545901-02 (TTU-1) | 15.1 | - | L1545901-03 (DUP-01) | 14.5 | - | 4% | - | - | - |

Notes:

RPD = Relative Percent Difference

NC = Not Calculated

µg/L = micrograms per liter

J - The identification of the analyte is acceptable; the reported value is an estimate.

J4 - The associated batch QC was outside the established quality control range for accuracy.

Q - Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

I - Field duplicate RPD exceeded 30%.

< = Less than

% = Percent