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Subject: Second Quarter 2024 Groundwater Monitoring Report
Former Thermal Treatment Unit
Nammo Defense Systems Inc.
Mesa, Arizona

Geosyntec Consultants, Inc. (Geosyntec) has prepared this *Second Quarter 2024 Groundwater Monitoring Report* (Report) on behalf of Nammo Defense Systems Inc. (NDS) to document the field activities and findings for sampling wells during the second quarter (2Q) of 2024 for the former Thermal Treatment Unit (TTU) at the NDS facility in Mesa, Arizona (the Site; Figure 1). This work was performed in general accordance with the most current Sampling and Analysis Plan (SAP)[1] and Quality Assurance Project Plan (QAPP)[2]. Deviations from the project documents listed above are provided in subsequent sections.

SCOPE OF ACTIVITIES

Field sampling activities, including well sampling and depth-to-water measurements, for the 2Q event were performed from 20 to 21 May 2024 and on 6 June 2024. Depth-to-water measurements were taken from 24 wells and samples were collected from 25 wells. Locations and construction details for all wells are provided in Table 1.

[1] Pinyon, 2022. *Groundwater Sampling and Analysis Plan*, Former Thermal Treatment Unit, Nammo Defense Systems Inc., Mesa, Arizona. 28 September.
[2] Geosyntec, 2024. *Quality Assurance Project Plan*, Nammo Defense Systems Inc. Facility, Mesa, Arizona. 1 February.

Groundwater Elevation Measurement

Depth-to-water measurements for the groundwater sampling event were taken from the wells indicated in Table 2 using a site dedicated electric water level meter. Depth to groundwater was measured to the nearest 0.01 foot from the top of the well casing (north side). Prior to the first use, and in between uses, the electric water level meter was decontaminated with a solution of Alconox and distilled water followed by two rinses with distilled water.

A depth to water measurement was not collected from primate facility well PF-2 due an inaccessible sounding tube. Depth to groundwater measurements are recorded both on the field records in Attachment 1 and in Table 2.

Groundwater Sampling

Groundwater samples were collected from monitor wells using single-use HydraSleeve samplers. Samplers were suspended inside the well within the screened interval at the depths indicated on well sampling records (Attachment 1). Samplers were set at least 24 hours in advance of sampling.

Samples from TTU extraction wells TTU-1, TTU-2, and TTU-20 and Primate Facility well PF-2 were collected at the closest operational spigot/outlet from the well during pumping. Each well was purged for approximately 15-minutes minimum and until groundwater quality measurements were stable. These readings are documented on field forms included in Attachment 1. Samples were collected after the 15-minute stabilization period.

A portion of each sample was used to fill laboratory-provided batch-certified sample containers. The remainder of the sample was used to measure field water quality parameters. A YSI Pro DSS water quality meter was used to measure temperature, specific conductivity, oxidation-reduction potential, dissolved oxygen, and pH. Field measured parameters are recorded on the field forms in Attachment 1.

Groundwater samples were collected and preserved as necessary for laboratory analysis of volatile organic compounds (VOCs) by USEPA Method 8260B, 1,4-dioxane by USEPA Method 8260B SIM, and perchlorate by USEPA Method 314.0M. An additional perchlorate sample was collected on 6 June, 2024 from the Primate Facility well PF-2 and preserved as necessary to be analyzed for perchlorate using a lower laboratory

reporting limit designed for drinking water samples, and analyzed by USEPA Method 314.0. A trip blank for every cooler containing samples for VOC analysis was submitted for VOC analysis by USEPA 8260B. Each sample was labeled, placed in a bubble-wrap bag, and stored in a cooler on wet ice for transport under standard chain-of-custody protocol to Pace Analytical, an Arizona Department of Health Services (ADHS) certified laboratory (#AZ0612). The perchlorate sample from PF-2 was transported to Eurofins Phoenix, an ADHS certified laboratory (#AZ0728)

Investigation Derived Waste

Investigation derived waste (IDW) consisting of remaining groundwater from the HydraSleeve after sample collection was containerized in a 5-gallon bucket before disposal at the current TTU evaporator treatment unit at Plant No. 2. Wells TTU-1, TTU-2 and TTU-20 are active extraction wells. Purged water from sampling for each well was containerized onsite in dedicated storage tanks before removal and treatment onsite by NDS at the current TTU evaporator treatment unit at Plant No. 2. Purged water from PF-2 was land applied in a vicinity of the well, as indicated in the SAP. Inert waste comprising of used PPE and disposable equipment were double bagged and disposed of as municipal waste in NDS trash receptacles.

Deviations from SAP and QAPP

This work was conducted in accordance with the SAP and QAPP. Deviations and descriptions of atypical conditions encountered are listed below:

- A depth to water measurement was unable to be collected in primate facility well PF-2 due to an inaccessible sounding tube.

There were no other deviations from the SAP or QAPP.

GROUNDWATER MONITORING RESULTS

A summary of the results of the groundwater monitoring program is provided in the following sections. Tables include the TTU Groundwater Well Network (Table 1), the 2Q groundwater elevations (Table 2), 2Q perchlorate sample results (Table 3), 2Q VOC sample results (Table 4), and historical results for perchlorate, 1,4-dioxane and trichloroethene (Table 5). Figures provided include a site location map (Figure 1), groundwater elevation and contours (Figure 2), perchlorate isoconcentration contours (Figure 3), 1,4-dioxane isoconcentration contours (Figure 4), 1,1-dichloroethene

isoconcentration contours (Figure 5), trichloroethene isoconcentration contours (Figure 6), and concentration of other detected VOCs (Figure 7). Attachment 2 includes Mann-Kendall trend plots for all well locations which illustrate changes in concentrations of 1,1-dichloroethene, 1,4-dioxane, perchlorate, and trichloroethene alongside the groundwater elevation.

Groundwater and Flow Direction

Groundwater elevations measured during the 2Q sampling event range from 1,138.98 feet above mean sea level (ft asml) in TTU-10 to 1,315.73 ft asml in TTU-15. Groundwater flow is in a westerly direction with a gradient of approximately 0.164 feet per foot. The apparent flow direction and gradient are generally consistent with prior monitoring events.

Groundwater Results

Perchlorate was detected in well locations TTU-1 through TTU-3, TTU-5, TTU-6, TTU-12 through TTU-17, TTU-20, and TTU-EX-1 through TTU-EX-4. The highest detected concentration during the second quarter was 660,000 micrograms per liter (µg/L) at TTU-16.

Mann-Kendall trend analysis was performed for historic perchlorate results (Attachment 2). The results of analysis indicate the following historical trends in concentrations of perchlorate:

- Increasing or probably increasing in wells TTU-5, TTU-17, and TTU-EX-3;
- Decreasing or probably decreasing in wells, TTU-1, TTU-2, TTU-3, TTU-7, TTU-8, TTU-11, TTU-13, TTU-14, TTU-19, and TTU-EX-1;
- Stable or no trend in wells TTU-4, TTU-6, TTU-9A, TTU-10, TTU-12, TTU-15, TTU-16, TTU-20, TTU-EX-2, TTU-EX-4, TTU-EX-5, and PF-2; and
- Not enough data for trend analysis at TTU-9A.

VOCs were detected at well locations TTU-1, TTU-2, TTU-7, TTU-11 through TTU-17, TTU-19, TTU-20, and TTU-EX-1 through TTU-EX-5. VOCs concentrations that exceeded Arizona Aquifer Water Quality Standards (AWQS) included 1,1,2-trichlorethane, 1,1-dichloroethane, 1,1-dichloroethene (1,1-DCE), 1,2-dichlorethane, benzene, cis-1,2-dichlorethene, dichloromethane, tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride.

A summary of VOC detections above the AWQS is provided below:

- 1,4-Dioxane was detected in TTU-1, TTU-2, TTU-12 through TTU-17, TTU-19, TTU-20, and TTU-EX-1 through TTU-EX-4. The highest detected 1,4-dioxane concentration was 2,740 µg/L in TTU-16. An AWQS for 1,4-dioxane has not been established. However, concentrations of 1,4-dioxane exceed the SAP screening level of 5 µg/L in all these wells.
- Concentrations of 1,1,2-trichloroethane were detected above the AWQS of 5 µg/L in TTU-16 and TTU-EX-3. The highest detected 1,1,2-trichloroethane concentration encountered during the reporting period was 57.7 µg/L in TTU-16;
- Concentrations of 1,1-dichloroethane were detected above the AWQS of 5 µg/L in TTU-16, TTU-20, and TTU-EX-3. The highest detected 1,1-dichloroethane concentration encountered during the reporting period was 51.6 µg/L in TTU-16;
- Concentrations of 1,1-DCE were detected above the AWQS of 7 µg/L in TTU-2, TTU-12, TTU-14, TTU-16, TTU-19, TTU-20, and TTU-EX-1 through TTU-EX-4. The highest detected 1,1-DCE concentration encountered during the reporting period was 3200µg/L in TTU-16;
- Concentrations of 1,2-dichloroethane were detected above the AWQS of 5 µg/L in TTU-16 with a concentration of 29.9 µg/L;
- Concentrations of benzene were detected above the AWQS of 5 µg/L in TTU-16, TTU-20, and TTU-EX-3. The highest detected benzene concentration encountered during the reporting period was 248 µg/L in TTU-16;
- Concentrations of cis-1,2-dichloroethene were detected above the AWQS of 70 µg/L in TTU-19 at a concentration of 148 µg/L;
- Concentrations of dichloromethane were detected above the AWQS of 5 µg/L in TTU-16. at a concentration of 60,800 µg/L;
- Concentrations of PCE were detected above the AWQS of 5 µg/L in TTU-16, and TTU-EX-3. The highest detected PCE concentration encountered during the reporting period was 42.9 µg/L in TTU-16;
- Concentrations of TCE were detected above the AWQS of 5 µg/L in TTU-1, TTU-2, TTU-11 through TTU-14, TTU-16, TTU-19, TTU-20, and TTU-EX-1

through TTU-EX-4. The highest detected TCE concentration encountered during the reporting period was 63,300 µg/L in TTU-16; and

- Concentrations of vinyl chloride were detected above the AWQS of 5 µg/L in TTU-19 at a concentration of 5.07 µg/L;

Other detected VOCs that either did not exceed their respective AWQS or an AWQS has not been established included 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), acetone, chloroform, propene, toluene, trans-1,2-dichloroethene, and total xylenes. There were no other detected VOCs.

Mann-Kendall analysis was performed for historic results of 1,4-dioxane, 1,1-dichloroethene, and TCE sampling (Attachment 2). The results of this analysis indicate the following historic trends:

- 1,4-Dioxane:
  - Increasing or probably increasing concentrations of 1,4-dioxane in wells TTU-2, TTU-3, TTU-7, TTU-12, TTU-15, and TTU-17;
  - Decreasing concentrations of 1,4-dioxane in wells TTU-11 and TTU-14; and
  - Stable or no trend in 1,4-dioxane concentrations in wells TTU-1, TTU-4 through TTU-6, TTU-8, TTU-9A, TTU-10, TTU-13, TTU-16, TTU-19, TTU-20, TTU-EX-1 through TTU-EX-5, and PF-2.

- 1,1-DCE:
  - Increasing concentrations of 1,1-DCE in wells TTU-2 and TTU-15;
  - Decreasing concentrations of 1,1-DCE in wells TTU-1, TTU-3, TTU-11, TTU-13, TTU-19, and TTU-EX-2; and
  - Stable or no trend in 1,1-DCE concentrations in wells TTU-4 through TTU-10, TTU-12, TTU-14, TTU-16, TTU-17, TTU-20, TTU-EX-1, TTU-EX-3 through TTU-EX-5, and PF-2.
- TCE:
  - Increasing or probably increasing concentrations of TCE in wells TTU-2 and TTU-EX-3;
  - Decreasing or probably decreasing concentrations of TCE in wells TTU-3, TTU-11, TTU-13, TTU-19, and TTU-EX-2;

- Stable or no trend in concentrations of TCE concentrations in wells TTU-1, TTU-4 through TTU-10, TTU-12, TTU-14 through TTU-16, TTU-20, TTU-EX-1, TTU-EX-4, TTU-EX-5 and PF-2; and
- Not enough data for TCE trend analysis at TTU-17.

Comparison of Groundwater Results to Action Levels

Included in the SAP[2], are concentration limits (CL) and trigger levels (TL) for Washington National Primate Research Center well PF-2. These defined as:

- CL—The concentration of a contaminant of concern that cannot be exceeded at PF-2.
- TL—The concentration at which a contaminant of concern detected at PF-2 will trigger a contingency response.

TLs for PF-2 are identified as:

- Perchlorate - 3.2 µg/L, which is 50% of the CL;
- VOCs - half the concentration of AWQSs;
- 1,4-Dioxane - 3.5 µg/L based on the USEPA drinking water health advisory (USEPA, 2018)[3]

Results from the Washington National Primate Research Center well PF-2, located on Salt River Pima-Maricopa Indian Community (SRPMIC) property, did not exceed the site-specific perchlorate CL of 6.4 µg/L or the TL of 3.2 µg/L.

Also included in the SAP[2], are CL and TL for TTU-6 and TTU-7. TLs for TTU-6 and TTU-7 are similar to well PF-2 and are identified as:

- VOCs - half the concentration of AWQSs;
- 1,4-Dioxane - 3.5 µg/L based on the USEPA drinking water health advisory (USEPA, 2018)[3]

Results from TTU-6 and TTU-7, did not exceed the site-specific VOC TLs or the 1,4-dioxane TL of 3.5 µg/L.

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[3] USEPA. 2018. 2018 Edition of the Drinking Water Standards and Health Advisory Tables, EPA 822-F-18-001, Washington, DC. March. https://www.epa.gov/system/files/documents/2022-01/dwtable2018.pdf

As proposed in the Confirmation and Mitigation Path Forward for Increased Perchlorate Concentration at TTU-14 letter[4], and included in the Sampling and Analysis Plan[2], the TTU groundwater monitoring program also includes action levels proposed for wells on SRPMIC property. These include wells 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. The action levels are defined as an increase in concentration of an order of magnitude or more for perchlorate, 1,4-dioxane, and/or VOCs at wells exceeding their respective regulatory screening levels (Arizona HGBL for perchlorate, USEPA drinking water health advisory for 1,4-dioxane, and/or AWQSs for VCOs), versus the three most recent sampling events.

The action levels were not exceeded for wells 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 during 2Q 2024.

Data Validation

A Tier 2 data validation of the laboratory results according to USEPA guidance and the laboratory results are qualified as usable for meeting project objectives. A data validation memorandum is provided in Attachment 3. Laboratory reports are provided in Attachment 4.

CLOSING

If you have any questions about this report, please contact either Katie Blatchford (KBlatchford@Nammo.us) with NDS, or Fabrizio Mascioni (FMascioni@Geosyntec.com) with Geosyntec.

Sincerely,

Tory Luttermoser
Professional

Fabrizio Mascioni, R.G. 65652 (AZ)
Principal Geologist

[4] Geosyntec, 2022. Confirmation and Mitigation Path Forward for Increased Perchlorate Concentration at TTU-14. Former Thermal Treatment Unit, Nammo Defense Systems Inc., Mesa, Arizona. 22 April.

Copies to:

Katie Blatchford, Nammo Defense Systems Inc. (electronic)
Christopher Horan, Salt River Pima-Maricopa Indian Community (electronic)
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Tables:

Table 1	Former Thermal Treatment Unit 2024 Groundwater Monitoring Well Network
Table 2	Groundwater Elevations – Second Quarter 2024
Table 3	Summary of Perchlorate Concentrations – Second Quarter 2024
Table 4	Detected VOC Concentrations – Second Quarter 2024
Table 5	Historic 1,4-Dioxane, Perchlorate, and TCE Concentrations

Figures:

Figure 1	Site Location – Former Thermal Treatment Unit
Figure 2	Groundwater Elevations and Contours – May 2024
Figure 3	Perchlorate Isoconcentration – May 2024
Figure 4	1,4 Dioxane Isoconcentration – May 2024
Figure 5	1,1-Dichloroethene Isoconcentration – May 2024
Figure 6	Trichloroethene Isoconcentration – May 2024
Figure 7	Other VOC Concentrations – May 2024

Attachments:

Attachment 1	Field Notes
Attachment 2	Mann-Kendall Trend Analysis
Attachment 3	Data Validation Memorandum
Attachment 4	Laboratory Analytical Reports

TABLES

TABLE 1:
FORMER THERMAL TREATMENT UNIT
2024 GROUNDWATER WELL NETWORK
NAMMO DEFENSE SYSTEMS INC.
MESA, ARIZONA
AUGUST 2024

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Well Identification	Latitude	Longitude	Measuring Point Elevation (ft asml)	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	33 29 57.98	-111 43 00.91	1308.03	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	33 30 01.65	-111 42 59.09	1305.12	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	33 29 52.48	-111 42 58.40	1314.93	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	33 29 57.57	-111 43 04.79	1300.84	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	110-175	180	185
TTU-7	33 29 57.85	-111 43 05.18	1301.84	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	Steel Open Borehole	8.5 8	282-410	282 None	410
TTU-8	33 30 01.91	-111 43 05.31	1310.23	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	135-185	190	204
TTU-9A	33 30 04.61	-111 42 51.19	1318.04	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	24-99	104	105
TTU-10	33 29 54.60	-111 43 07.90	1302.42	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	115-180	185	204
TTU-11	33 29 55.28	-111 42 51.47	1339.20	55-918534	Extraction/ Injection/ Monitoring[1]	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	24.1-89.1	94	136
TTU-12	33 29 56.03	-111 42 58.38	1312.21	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	Steel Open Borehole	5.5 5	30-180	30 None	180
TTU-13	33 29 58.99	-111 42 56.85	1310.79	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85283	Steel Open Borehole	5.5 5	30-80	30 None	80
TTU-14	33 29 57.20	-111 42 57.46	1316.80	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85284	Steel Open Borehole	5.5 5	45-100	45 None	100
TTU-15	33 29 56.78	-111 42 47.03	1350.85	55-228014	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85285	Steel Open Borehole	5 4.5	10-100	10 None	100
TTU-16	33 29 56.18	-111 42 49.59	1338.55	55-231730	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85286	Steel Open Borehole	8 8	20-95.6	20 None	95.6
TTU-17	33 29 58.61	-111 42 45.69	1347.49	55-231735	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85287	Steel Open Borehole	8 8	20-101	20 None	101
TTU-18	33 29 47.20	-111 42 58.10	1320.25	55-231737	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85288	Steel Open Borehole	8 8	21-140	21 None	140
TTU-19	33 29 55.25	-111 42 51.50	1336.81	55-232969	Monitoring/ Injection [2]	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85288	PVC	4	25-95	95	96

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TABLE 1:
FORMER THERMAL TREATMENT UNIT
2024 GROUNDWATER WELL NETWORK
NAMMO DEFENSE SYSTEMS INC.
MESA, ARIZONA
AUGUST 2024

Well Identification	Latitude	Longitude	Measuring Point Elevation (ft asml)	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	33 29 59.14	-111 42 56.27	1312.73	55-914440	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85277	PVC	4	30-70	75	200
TTU-2	33 29 55.85	-111 42 57.85	1314.44	N/A	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85278	PVC	4	49.4-179.6	185	187.5
TTU-20	33 29 55.17	-111 42 51.58	1336.90	55-232968	Monitoring/ Extraction[3]	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85288	PVC	4	25-95	95	100
TTU-EX-1	33 29 58.42	-111 42 52.55	1321.69	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	33 29 57.61	-111 42 53.79	1316.40	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	33 29 56.29	-111 42 54.12	1316.85	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	33 29 55.46	-111 42 54.39	1319.96	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	33 29 54.68	-111 42 54.62	1319.50	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	33 29 56.60	-111 43 09.75	1295.99	N/A	Production	University of Washington	4202 N Higley Rd Mesa, AZ 85215	Unknown	Unknown	Unknown	Unknown	Unknown
PF-2	33 29 56.65	-111 43 09.96	1296.35	N/A	Production	University of Washington	4202 N Higley Rd Mesa, AZ 85215	Steel	6 5/8	300-400	400	400

Abbreviations:

ft amsl = 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

Notes:

(1) - TTU-11 was converted from an extraction well to an injection well in October 2020 for a In-Situ Bioremediation Pilot Test then to a monitoring well after completion of the test.
(2) - TTU-19 was converted from a monitoring well to an injection well in February 2021 for an In-Situ Bioremediation Pilot Test, then back to a monitoring well after completion of the test.
(3) - TTU-20 was converted from a monitoring well to an extraction well in 2023
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 - SECOND QUARTER 2024
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

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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	5/21/2024	40.09	1272.64
TTU-2	909087.852	761148.265	1314.44	5/21/2024	58.58	1255.86
TTU-3	909303.363	760888.204	1308.03	5/21/2024	73.34	1234.69
TTU-4	909673.680	761041.975	1305.12	5/21/2024	51.19	1253.93
TTU-5	908747.636	761102.227	1314.93	5/20/2024	81.24	1233.69
TTU-6	909260.820	760560.096	1300.84	5/21/2024	119.34	1181.50
TTU-7	909287.611	760527.269	1301.84	5/21/2024	131.91	1169.93
TTU-8	909699.266	760514.908	1310.23	5/21/2024	143.65	1166.58
TTU-9A	909974.490	761710.151	1318.04	5/20/2024	24.30	1293.74
TTU-10	908960.114	760297.013	1302.42	5/21/2024	163.44	1138.98
TTU-11	909029.758	761706.470	1339.20	5/20/2024	37.86	1301.34
TTU-12	909105.990	761103.280	1312.21	5/20/2024	70.87	1241.34
TTU-13	909405.920	761232.180	1310.79	5/20/2024	40.01	1270.78
TTU-14	909224.260	761181.230	1316.80	5/20/2024	53.01	1263.79
TTU-15	909185.100	762065.910	1350.85	5/20/2024	35.12	1315.73
TTU-16	909124.980	761848.851	1338.55	5/20/2024	25.10	1313.45
TTU-17	909370.903	762179.168	1347.49	5/20/2024	40.64	1306.85
TTU-18	908215.829	761130.011	1320.25	5/20/2024	DRY	
TTU-19	909030.750	761687.700	1336.81	5/20/2024	35.96	1300.85
TTU-20	909022.530	761681.990	1336.90	5/20/2024	37.55	1299.35
TTU-EX-1	909350.574	761597.823	1321.69	5/20/2024	31.37	1290.32
TTU-EX-2	909268.187	761493.214	1316.40	5/20/2024	40.40	1276.00
TTU-EX-3	909134.941	761465.507	1316.85	5/20/2024	42.14	1274.71
TTU-EX-4	909051.298	761442.876	1319.96	5/20/2024	45.24	1274.72
TTU-EX-5	908971.770	761423.325	1319.50	5/20/2024	41.09	1278.41
PF-1	909161.578	760140.434	1295.99	5/20/2024	UTM	UTM
PF-2	909166.890	760122.250	1296.35	5/21/2024	UTM	UTM

Notes:

intl ft = international foot

ft amsl = feet above mean sea level

ft btoc = feet below top of casing

UTM = unable to measure

TABLE 3:
GROUNDWATER PERCHLORATE CONCENTRATIONS
SECOND QUARTER 2024
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

			Analyte	Perchlorate
			Method	USEPA 314.0
			Units	µg/L
			HBGL	14
Location	**Depth (ft btoc)**	**Date Sampled**	**Sample Type**	**Concentration**
TTU-1	50	2024-05-21	Primary	11,900
TTU-2	114	2024-05-21	Primary	**150,000**
TTU-3	108	2024-05-21	Primary	**194**
TTU-4	57	2024-05-21	Primary	< 4.00
TTU-5	110	2024-05-20	Primary	**38.7**
TTU-6	143	2024-05-21	Primary	**17.4 J+**
TTU-7	345	2024-05-21	Primary	< 4.00
TTU-8	164	2024-05-21	Primary	< 4.00
TTU-9A	61	2024-05-20	Primary	< 20.0
			Duplicate	< 20.0
TTU-10	172	2024-05-21	Primary	< 4.00
TTU-11	73	2024-05-20	Primary	< 4.00
TTU-12	82	2024-05-20	Primary	**117,000**
TTU-13	51	2024-05-20	Primary	**21,300**
TTU-14	69	2024-05-20	Primary	**111,000**
			Duplicate	**109,000**
TTU-15	75	2024-05-20	Primary	**9,100**
TTU-16	80	2024-05-20	Primary	**660,000**
TTU-17	80	2024-05-20	Primary	**26.5**
TTU-19	73	2024-05-20	Primary	< 4.00
TTU-20	73	2024-05-21	Primary	**121,000**
TTU-EX-1	69	2024-05-20	Primary	**82,000**
TTU-EX-2	74	2024-05-20	Primary	**75,700**
TTU-EX-3	76	2024-05-20	Primary	**511,000**
			Duplicate	**537,000**
TTU-EX-4	77	2024-05-20	Primary	**88,300**
TTU-EX-5	80	2024-05-20	Primary	< 4.00
PF-2	400	2024-05-21	Primary	< 4.00 J
		2024-06-06	Primary	< 1.00

Notes:

µg/L = micrograms per liter

HBGL = Health Based Guidence Level

ft btoc = feet below top of casing

USEPA = United States Environmental Protection Agency

Concentrations exceeding HBGL are in **boldface**.

Non-detect results are indicated with "<" followed by the reporting limit.

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

J+ = Estimated concentration; the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

TABLE 4:
DETECTED VOC CONCENTRATIONS - SECOND QUARTER 2024
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Analyte	1,4-Dioxane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-butanone (MEK)	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Dichloromethane	Propene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Toluene	trans-1,2-Dichloroethene	Vinyl Chloride	Xylenes (Total)
Method	8260B SIM	8260B																	
Units	µg/L																		
Screening Level [1]	5	5	5	7	5	NE	NE	NE	5	70	70	5	NE	5	5	NE	NE	5	10,000
Location	**Depth (ft btoc)**	**Date Sampled**	**Sample Type**	**Concentration**															
TTU-1	50	5/21/2024	Primary	**21.2**	< 1.00	< 1.00	5.64	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	**13.3**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-2	114	5/21/2024	Primary	**251**	1.76	1.09	**90.4**	< 1.00	< 10.0	< 10.0	< 50.0	1.22	< 5.00	1.59	< 5.00	< 2.50	< 1.00	**500**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-3	108	5/21/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-4	57	5/21/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-5	110	5/20/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-6	143	5/21/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-7	345	5/21/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-8	164	5/21/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-9A	61	5/20/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
			Duplicate	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-10	172	5/21/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00
TTU-11	73	5/20/2024	Primary	< 3.00	< 1.00	< 1.00	4.44	< 1.00	975	175	1,250 J	< 1.00	< 5.00	37.7	< 5.00	< 2.50	< 1.00	**74.1**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-12	82	5/20/2024	Primary	**99.7**	1.37	< 1.00	**77.1**	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	1.01	< 5.00	< 2.50	1.03	**515**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-13	51	5/20/2024	Primary	**31.8**	< 1.00	< 1.00	4.51	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	**11.7**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-14	69	5/20/2024	Primary	**211**	1.90	1.23	**122**	< 1.00	< 10.0	< 10.0	< 50.0	1.78	< 5.00	2.01	< 5.00	< 2.50	1.71	**763**	< 1.00	< 1.00	< 1.00	< 3.00
			Duplicate	**221**	1.81	1.12	**122**	< 1.00	< 10.0	< 10.0	< 50.0	1.74	< 5.00	2.22	< 5.00	< 2.50	1.62	**780**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-15	75	5/20/2024	Primary	**6.70**	< 1.00	< 1.00	1.05	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	3.52 J	< 1.00	< 1.00	< 1.00	< 3.00
TTU-16	80	5/20/2024	Primary	**2,740**	**57.7**	**51.6**	**3,200**	**29.9**	< 100	< 100	< 500	**248**	76.7	13.1	**60,800**	< 25.0	**42.9**	**63,300**	12.8	< 10.0	< 10.0	62.0
TTU-17	80	5/20/2024	Primary	**8.75**	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00

TABLE 4:
DETECTED VOC CONCENTRATIONS - SECOND QUARTER 2024
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Depth (ft btoc)	Date Sampled	Sample Type	1,4-Dioxane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-butanone (MEK)	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Dichloromethane	Propene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Toluene	trans-1,2-Dichloroethene	Vinyl Chloride	Xylenes (Total)
			Method	**8260B SIM**	**8260B**																	
			Units	**µg/L**																		
			Screening Level (1)	**5**	**5**	**5**	**7**	**5**	**NE**	**NE**	**NE**	**5**	**70**	**70**	**5**	**NE**	**5**	**5**	**NE**	**NE**	**5**	**10,000**
TTU-19	73	5/20/2024	Primary	**185**	< 1.00	< 1.00	**19.5**	< 1.00	< 10.0	< 10.0	< 50.0	3.43	< 5.00	**148**	< 5.00	< 2.50	< 1.00	**165**	< 1.00	6.18	**5.07**	< 3.00
TTU-20	73	5/21/2024	Primary	**348**	4.45	**5.04**	**295**	< 1.00	< 10.0	< 10.0	< 50.0	**5.13**	< 5.00	22.7	< 5.00	< 2.50	4.21	**1,920**	< 1.00	2.04	< 1.00	< 3.00
TTU-EX-1	69	5/20/2024	Primary	**293**	1.26	< 1.00	**150**	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	1.23	**226**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-EX-2	74	5/20/2024	Primary	**223**	1.62	< 1.00	**114**	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	1.16	< 5.00	< 2.50	1.38	**375**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-EX-3	76	5/20/2024	Primary	**517**	**9.82**	**11.4**	**1,010**	**1.65**	< 10.0	< 10.0	< 50.0	**14.8**	13.3	2.98	< 5.00	< 2.50	**13.8**	**7,320**	< 1.00	2.09	< 1.00	< 3.00
			Duplicate	**676**	**10.1**	**9.36**	**975**	**1.71**	< 10.0	< 10.0	< 50.0	**11.9**	11.5	2.99	< 5.00	< 2.50	**11.7**	**7,070**	< 1.00	2.23	< 1.00	< 3.00
TTU-EX-4	77	5/20/2024	Primary	**15.5**	< 1.00	1.38	**115**	< 1.00	< 10.0	< 10.0	< 50.0	1.05	< 5.00	2.43	< 5.00	< 2.50	1.31	**677**	< 1.00	< 1.00	< 1.00	< 3.00
TTU-EX-5	80	5/20/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	3.00 J	< 1.00	< 1.00	< 1.00	< 3.00
PF-2	400	5/21/2024	Primary	< 3.00	< 1.00	< 1.00	< 1.00	< 1.00	< 10.0	< 10.0	< 50.0	< 1.00	< 5.00	< 1.00	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 3.00

Notes:

Any analytes not presented on this table were of non-detectable concentrations.

Non-detect results are indicated by "<" followed by the laboratory reporting limit.

µg/L = micrograms per liter

Concentrations exceeding the AWQS are indicated in **boldface**.

NE = Not established; no aquifer water quality standard is established.

ft btoc = feet below top of casing

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

(1) = Screening level from SAP, representes either United States Environmental Protection Agency Regional Screening Levels or Arizona Aquifer Water Quality Standard.

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
PF-1	Primary	6/4/2003	--	< 2.0	--
PF-1	Primary	1/22/2009	--	< 2.0	--
PF-1	Primary	10/22/2012	--	< 2.0	--
PF-1	Primary	5/18/2015	< 2.0	< 1.0	< 2.0
PF-1	Primary	9/9/2015	< 2.0	< 2.0	< 2.0
PF-1	Duplicate	9/9/2015	< 2.0	< 2.0	< 2.0
PF-1	Primary	11/23/2015	< 2.0	--	< 2.0
PF-1	Duplicate	11/23/2015	--	< 2.0	--
PF-1	Primary	2/25/2016	< 2.0 J	< 2.0	< 2.0
PF-1	Primary	6/1/2016	< 3.0	< 0.50 J	< 1.0
PF-1	Primary	8/18/2016	< 2.0	< 0.10	< 2.0
PF-1	Primary	11/22/2016	< 2.0	1.3	< 2.0
PF-1	Duplicate	11/22/2016	--	1.1	--
PF-1	Primary	2/22/2017	< 1.0	< 0.20	< 1.0
PF-1	Primary	5/23/2017	< 1.0	0.39	< 1.0
PF-1	Primary	8/29/2017	< 1.0	0.28	< 1.0
PF-1	Primary	11/27/2017	< 1.0	0.19 J	< 1.0
PF-1	Primary	3/27/2018	< 3.0	0.38	< 0.40
PF-1	Primary	3/27/2018	< 3.0	0.38	< 0.40
PF-1	Primary	6/28/2018	< 3.0	< 0.20	< 0.40
PF-1	Primary	6/28/2018	< 3.0	< 0.20	< 0.40
PF-1	Primary	9/10/2018	< 3.0	0.44	< 0.40
PF-1	Primary	9/10/2018	< 3.0	0.44	< 0.40
PF-1	Primary	12/10/2018	< 3.0	0.27	< 0.40
PF-1	Primary	12/10/2018	< 3.0	0.27	< 0.40
PF-1	Primary	3/26/2019	< 3.0	< 4.0	< 1.0
PF-2	Primary	1/28/2014	--	< 2.0	--
PF-2	Duplicate	8/26/2014	--	2.7	--
PF-2	Primary	9/15/2014	--	< 2.0	--
PF-2	Duplicate	9/15/2014	--	< 2.0	--
PF-2	Primary	10/7/2014	--	< 2.0	--
PF-2	Duplicate	10/7/2014	--	0.48	--
PF-2	Primary	11/19/2014	--	< 2.0	--
PF-2	Primary	1/13/2015	--	--	< 2.0
PF-2	Primary	2/5/2015	< 2.0	< 2.0	< 2.0
PF-2	Primary	5/18/2015	< 2.0	< 1.0	< 2.0
PF-2	Primary	9/9/2015	< 2.0	< 2.0	< 2.0
PF-2	Duplicate	9/9/2015	< 2.0	< 2.0	< 2.0
PF-2	Primary	11/23/2015	< 2.0	< 2.0	< 2.0
PF-2	Primary	2/25/2016	< 2.0	< 2.0	< 2.0
PF-2	Primary	6/1/2016	< 3.0	0.52 J	< 1.0
PF-2	Duplicate	6/1/2016	< 3.0	< 0.50 J	< 1.0
PF-2	Primary	8/18/2016	< 2.0	0.46	< 2.0
PF-2	Primary	11/22/2016	< 2.0	< 1.0	< 2.0
PF-2	Primary	2/22/2017	< 1.0	0.41	< 1.0
PF-2	Primary	5/23/2017	< 1.0	0.38	< 1.0
PF-2	Primary	8/29/2017	< 1.0	0.37	< 1.0
PF-2	Primary	11/27/2017	< 1.0	0.38	< 1.0
PF-2	Primary	3/27/2018	< 3.0	0.42	< 0.40
PF-2	Primary	3/27/2018	< 3.0	0.42	< 0.40
PF-2	Primary	6/28/2018	< 3.0	0.40	< 0.40
PF-2	Primary	6/28/2018	< 3.0	0.40	< 0.40
PF-2	Primary	9/10/2018	< 3.0	0.40	< 0.40
PF-2	Primary	9/10/2018	< 3.0	0.40	< 0.40
PF-2	Primary	12/10/2018	< 3.0	0.34	< 0.40
PF-2	Primary	12/10/2018	< 3.0	0.34	< 0.40
PF-2	Primary	3/26/2019	< 3.0	< 4.0	< 1.0
PF-2	Primary	6/7/2019	--	< 8.0	--
PF-2	Primary	9/16/2019	< 3.00	0.360 J	< 1.00
PF-2	Duplicate	9/16/2019	< 3.00	< 0.200 J	< 1.00
PF-2	Primary	12/23/2019	< 3.00	0.41	< 1.00
PF-2	Primary	3/13/2020	< 3.00	< 0.50	< 1.00
PF-2	Duplicate	3/13/2020	--	< 0.50	--

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
PF-2	Primary	6/19/2020	--	1.3	--
PF-2	Primary	7/21/2020	--	1.1	--
PF-2	Primary	12/4/2020	< 3.00	0.61	< 1.00
PF-2	Duplicate	12/4/2020	< 3.00	0.64	< 1.00
PF-2	Primary	3/29/2021	< 3.00	--	< 1.00
PF-2	Primary	5/6/2021	< 3.00	--	< 1.00
PF-2	Primary	8/6/2021	< 3.00	0.75	< 1.00
PF-2	Duplicate	8/6/2021	--	0.56	--
PF-2	Primary	11/18/2021	< 3.00	1.50	< 1.00
PF-2	Duplicate	11/18/2021	--	1.30	--
PF-2	Primary	3/31/2022	< 3.00	--	< 1.00
PF-2	Duplicate	3/31/2022	< 3.00	--	--
PF-2	Primary	6/21/2022	< 3.00	--	< 1.00 U,J3
PF-2	Duplicate	6/21/2022	< 3.00	--	< 1.00
PF-2	Primary	9/9/2022	--	0.650	< 1.00
PF-2	Primary	11/30/2022	< 3.00	< 0.500 U;E4	< 1.00
PF-2	Primary	1/6/2023	--	< 0.43 U,E8	--
PF-2	Primary	2/27/2023	< 3.0	< 0.38	< 1.0
PF-2	Primary	6/12/2023	< 3.0	< 0.48	< 1.0
PF-2	Duplicate	6/12/2023	< 3.0	--	< 1.0
PF-2	Primary	9/5/2023	< 3.0	0.40 E4,T5	< 1.0
PF-2	Primary	11/21/2023	< 3.0	< 0.31 U,E8	< 1.0
PF-2	Primary	2/14/2024	< 3.00	--	< 1.00
PF-2	Primary	5/21/2024	< 3.00	< 4.00 J	< 1.00
PF-2	Primary	6/6/2024	--	< 1.00	--
TTU-1	Primary	9/25/2012	--	30,000	--
TTU-1	Primary	10/22/2012	--	< 2,000	--
TTU-1	Primary	11/13/2013	--	15,000	--
TTU-1	Primary	11/13/2013	--	15,000	--
TTU-1	Primary	8/26/2014	--	12,000	--
TTU-1	Primary	8/26/2014	--	12,000	--
TTU-1	Primary	11/18/2014	--	16,000	6.1
TTU-1	Primary	11/18/2014	--	16,000	--
TTU-1	Primary	12/23/2014	--	--	8.8
TTU-1	Primary	2/5/2015	26.0	18,000	10
TTU-1	Primary	2/5/2015	26	18,000	10
TTU-1	Primary	5/18/2015	20.0	17,000	6.1
TTU-1	Primary	5/18/2015	20	17,000	6.1
TTU-1	Primary	9/9/2015	17.0	15,000	5.2
TTU-1	Primary	9/9/2015	17	15,000	5.2
TTU-1	Primary	11/23/2015	14.0	12,000	5.1
TTU-1	Primary	11/23/2015	14	12,000	5.1
TTU-1	Primary	2/25/2016	11	9,600	4.6
TTU-1	Primary	2/25/2016	11	9,600	4.6
TTU-1	Primary	6/1/2016	12.7	7,080	3.03
TTU-1	Primary	6/1/2016	13	7,100 J	3.0
TTU-1	Primary	8/18/2016	11	17,000	3.7
TTU-1	Primary	8/18/2016	11	17,000	3.7
TTU-1	Primary	11/22/2016	27.0	59,000	5.5
TTU-1	Primary	11/22/2016	27	59,000	5.5
TTU-1	Primary	2/22/2017	18.4	62,600	5.5
TTU-1	Primary	2/22/2017	18	63,000	5.5
TTU-1	Primary	5/23/2017	14.1	50,200	7.2
TTU-1	Primary	5/23/2017	14	50,000	7.2
TTU-1	Primary	8/29/2017	11	49,100	1.4
TTU-1	Primary	8/29/2017	11	49,000	1.4
TTU-1	Primary	11/27/2017	17.7	49,000	7.1
TTU-1	Duplicate	11/27/2017	18.1	48,800	7.2
TTU-1	Primary	11/27/2017	18	49,000	7.1
TTU-1	Duplicate	11/27/2017	18	49,000	7.2
TTU-1	Primary	3/27/2018	17.1	255,000	4.6
TTU-1	Primary	3/27/2018	17	21,000 J	4.6
TTU-1	Primary	9/12/2018	31.8	21,600	11.2

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-1	Duplicate	9/12/2018	29.1	23,100	12.4
TTU-1	Primary	9/12/2018	32	22,000	11
TTU-1	Duplicate	9/12/2018	29	23,000	12
TTU-1	Primary	12/4/2018	7.30	87.6	4.4
TTU-1	Primary	12/4/2018	7.3	88	4.4
TTU-1	Primary	9/16/2019	13.9	7,600	5.72
TTU-1	Duplicate	9/16/2019	10.8	8,120	4.85
TTU-1	Primary	12/20/2019	5.06	5,130	5.19
TTU-1	Primary	3/12/2020	4.63 J	4,690	3.91
TTU-1	Primary	6/18/2020	17.1	7,180	7.60
TTU-1	Primary	7/20/2020	3.71	4,830	6.09
TTU-1	Primary	12/2/2020	29.9	< 200	1.33
TTU-1	Primary	3/30/2021	18.9 J	11,700	6.40
TTU-1	Primary	5/6/2021	22.0	14,000	17.1 J
TTU-1	Primary	7/29/2021	37.7	5,640	14.3
TTU-1	Primary	12/22/2021	11.1	21,100	8.82
TTU-1	Primary	3/26/2022	18.4	15,100	3.72
TTU-1	Duplicate	3/26/2022	19.9	14,500	4.46
TTU-1	Primary	6/16/2022	17.5 Q	38,700	4.42
TTU-1	Duplicate	6/16/2022	35.5	13,200	4.12
TTU-1	Primary	10/11/2022	15.1	11,300	5.13
TTU-1	Duplicate	10/11/2022	14.5	11,200	5.85
TTU-1	Primary	11/28/2022	11.8 B	6,990	4.86
TTU-1	Primary	2/23/2023	15	8,400	5.0 M1
TTU-1	Primary	6/15/2023	9.7	6,200	4.2
TTU-1	Primary	9/14/2023	6.1	--	1.4
TTU-1	Primary	11/17/2023	9.5	8,300	3.5
TTU-1	Primary	2/13/2024	18.2	11,700	5.44
TTU-1	Primary	5/21/2024	21.2	11,900	13.3
TTU-10	Primary	7/21/2016	< 2.0	< 1.0	< 2.0
TTU-10	Primary	8/18/2016	< 2.0	< 1.0	< 2.0
TTU-10	Primary	11/22/2016	< 2.0	< 1.0	< 2.0
TTU-10	Primary	2/22/2017	< 1.0	< 3.0	< 1.0
TTU-10	Primary	5/23/2017	< 1.0	< 3.0	< 1.0
TTU-10	Primary	8/29/2017	< 1.0	< 3.0	< 1.0
TTU-10	Primary	11/27/2017	< 1.0	< 6.0	< 1.0
TTU-10	Primary	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	6/28/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	6/28/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	9/10/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	9/10/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-10	Primary	3/26/2019	< 3.0	< 4.0	< 1.0
TTU-10	Primary	6/27/2019	< 3.00	< 4.0	--
TTU-10	Primary	9/16/2019	< 3.00	< 4.00	< 1.00
TTU-10	Primary	12/23/2019	< 3.00	< 4.00	< 1.00
TTU-10	Primary	3/13/2020	< 3.00	< 4.00	< 1.00
TTU-10	Primary	6/18/2020	< 3.00	< 4.00	< 1.00
TTU-10	Primary	7/21/2020	< 3.00	< 4.00	< 1.00
TTU-10	Primary	12/4/2020	< 3.00	< 4.00	< 1.00
TTU-10	Primary	3/29/2021	< 3.00	< 4.00	< 1.00
TTU-10	Primary	5/6/2021	< 3.00	2.09 J	< 1.00
TTU-10	Primary	8/6/2021	< 3.00	< 4.00	< 1.00
TTU-10	Primary	11/18/2021	< 3.00	< 4.00	< 1.00
TTU-10	Primary	3/22/2022	1.58 E4	31.8 M1	< 1.00
TTU-10	Primary	4/29/2022	--	< 4.00	--
TTU-10	Duplicate	4/29/2022	--	< 4.00	--
TTU-10	Primary	6/14/2022	< 3.00 U,J3	< 4.00	< 1.00
TTU-10	Duplicate	6/14/2022	< 3.00 U,J3	< 4.00	< 1.00
TTU-10	Primary	9/9/2022	< 3.00	37.0	< 1.00
TTU-10	Primary	11/30/2022	< 3.00	< 4.00	< 1.00

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-10	Primary	2/27/2023	< 3.0	< 4.0	< 1.0
TTU-10	Primary	6/12/2023	< 3.0	< 4.0	< 1.0
TTU-10	Primary	9/5/2023	< 3.0	< 4.0	< 1.0
TTU-10	Primary	11/21/2023	< 3.0	< 4.0	< 1.0
TTU-10	Duplicate	11/21/2023	< 3.0	< 4.0	< 1.0
TTU-10	Primary	2/14/2024	< 3.00	< 4.00	< 1.00
TTU-10	Duplicate	2/14/2024	< 3.00	< 4.00	< 1.00
TTU-10	Primary	5/21/2024	< 3.00	< 4.00	< 1.00
TTU-11	Primary	9/23/2015	380	160,000	3,100
TTU-11	Duplicate	9/23/2015	400	100,000	3,100
TTU-11	Primary	9/23/2015	380	160,000	3,100
TTU-11	Duplicate	9/23/2015	400	100,000	3,100
TTU-11	Primary	11/23/2015	270	120,000	2,900
TTU-11	Primary	11/23/2015	270	120,000	2,900 J
TTU-11	Primary	2/25/2016	250	87,000	2,400
TTU-11	Primary	2/25/2016	250	87,000	2,400
TTU-11	Primary	6/1/2016	282	76,800	1,600
TTU-11	Primary	6/1/2016	282	77,000 J	1,600
TTU-11	Primary	8/18/2016	240	75,000	1,800
TTU-11	Primary	8/18/2016	240	75,000	1,800
TTU-11	Primary	11/22/2016	310	91,000	2,500
TTU-11	Duplicate	11/22/2016	340	93,000	2,400
TTU-11	Primary	11/22/2016	310	91,000	2,500
TTU-11	Duplicate	11/22/2016	340	93,000	2,400
TTU-11	Primary	2/22/2017	222	66,000	2,010
TTU-11	Duplicate	2/22/2017	224	70,000	2,080
TTU-11	Primary	2/22/2017	261	270,000	2,010
TTU-11	Duplicate	2/22/2017	--	70,000	2,080
TTU-11	Primary	2/22/2017	--	--	2,780
TTU-11	Duplicate	2/22/2017	222	66,000	--
TTU-11	Duplicate	2/22/2017	224	--	--
TTU-11	Primary	5/23/2017	201	50,000	1,560
TTU-11	Duplicate	5/23/2017	192	48,200	1,710
TTU-11	Primary	5/23/2017	201	50,000	1,560
TTU-11	Duplicate	5/23/2017	192	48,000	1,710
TTU-11	Primary	8/29/2017	1,450	1,020,000	807
TTU-11	Primary	8/29/2017	1,450	1,000,000	807
TTU-11	Primary	3/27/2018	671	261,000	461
TTU-11	Primary	3/27/2018	671	260,000	461
TTU-11	Primary	9/12/2018	1,060	400,000	4,650
TTU-11	Primary	9/12/2018	1,060	400,000	4,650
TTU-11	Primary	12/4/2018	1,820	413,000	14,500
TTU-11	Duplicate	12/4/2018	1,840	432,000	14,800
TTU-11	Duplicate	12/4/2018	--	432,000	--
TTU-11	Primary	12/4/2018	1,820	410,000	14,500
TTU-11	Duplicate	12/4/2018	1,840	430,000	14,800
TTU-11	Primary	12/10/2018	1,820	--	14,500
TTU-11	Duplicate	12/10/2018	1,840	--	14,800
TTU-11	Primary	9/16/2019	1,510	378,000	11,200
TTU-11	Primary	12/20/2019	855 J-	404,000	11,500
TTU-11	Duplicate	12/20/2019	907 J-	385,000	9,400
TTU-11	Primary	3/12/2020	863	339,000	6,780
TTU-11	Primary	6/18/2020	1,570	344,000	15,000
TTU-11	Primary	7/20/2020	977	287,000	17,600
TTU-11	Primary	10/26/2020	358 J	163,000	4,430
TTU-11	Primary	10/26/2020	562 J	262,000	4,870
TTU-11	Primary	9/23/2021	6.95 J-	< 200	69.8
TTU-11	Primary	6/20/2022	< 3.00	< 4.00 U,J5	56.3
TTU-11	Primary	9/3/2022	--	< 4.00 U;M2	58.2
TTU-11	Primary	11/30/2022	< 3.00 U;J3	< 20.0	71.5
TTU-11	Primary	2/25/2023	11,600	< 200	68
TTU-11	Primary	6/13/2023	< 30	< 4.0	46
TTU-11	Primary	9/5/2023	< 3.0	490	79

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-11	Primary	11/18/2023	< 3.0	1,300	68
TTU-11	Primary	2/13/2024	< 3.00	< 4.00	76.6
TTU-11	Primary	5/20/2024	< 3.00	< 4.00	74.1
TTU-12	Primary	8/29/2017	85.7	217,000	335
TTU-12	Primary	8/29/2017	86	220,000	335
TTU-12	Primary	11/27/2017	84.1	136,000	301
TTU-12	Primary	11/27/2017	84	140,000	301
TTU-12	Primary	3/27/2018	85.5	114,000	484
TTU-12	Primary	3/27/2018	86	110,000	484
TTU-12	Primary	6/28/2018	108	123,000	339
TTU-12	Primary	6/28/2018	108	120,000	339
TTU-12	Primary	9/10/2018	91.0	123,000	460
TTU-12	Primary	9/10/2018	91	120,000	460
TTU-12	Primary	12/10/2018	107	124,000	454
TTU-12	Primary	12/10/2018	107	120,000	454
TTU-12	Primary	3/25/2019	136	127,000	176
TTU-12	Primary	6/7/2019	120	139,000	507
TTU-12	Primary	9/16/2019	160	132,000	543
TTU-12	Primary	12/20/2019	106	137,000	567
TTU-12	Primary	3/12/2020	94.8 J	134,000	407
TTU-12	Primary	6/17/2020	184	122,000	471
TTU-12	Primary	7/20/2020	82.2	132,000	547
TTU-12	Primary	12/2/2020	159	142,000	531
TTU-12	Primary	3/30/2021	115 J	143,000	480
TTU-12	Primary	5/6/2021	142	142,000	540
TTU-12	Primary	7/29/2021	176	123,000	466
TTU-12	Primary	11/18/2021	133	148,000	624
TTU-12	Duplicate	11/18/2021	141	140,000	617
TTU-12	Primary	3/22/2022	149	120,000 M3	538
TTU-12	Primary	6/13/2022	170	132,000	487
TTU-12	Primary	9/9/2022	119	132,000	529
TTU-12	Primary	11/29/2022	117	141,000	463
TTU-12	Primary	2/23/2023	209	130,000	452
TTU-12	Primary	6/13/2023	127	130,000	448
TTU-12	Primary	9/7/2023	131	140,000 M3	519 M3
TTU-12	Primary	11/18/2023	153	110,000	427
TTU-12	Primary	2/12/2024	< 3.00	139,000	511
TTU-12	Primary	5/20/2024	99.7	117,000	515
TTU-13	Primary	8/29/2017	4.0	14,200	2.6
TTU-13	Primary	8/29/2017	4.0	14,000	2.6
TTU-13	Primary	11/27/2017	14.1	25,900	5.7
TTU-13	Primary	11/27/2017	14	26,000	5.7
TTU-13	Primary	3/27/2018	18.3	26,300	7.3
TTU-13	Primary	3/27/2018	18	26,000	7.3
TTU-13	Primary	6/28/2018	33.9	35,300	12.6
TTU-13	Primary	6/28/2018	34	35,000	13
TTU-13	Primary	9/10/2018	47.3	40,000	24.2
TTU-13	Primary	9/10/2018	47	40,000	24
TTU-13	Primary	12/10/2018	45.2	37,500	20.1
TTU-13	Primary	12/10/2018	45	38,000	20
TTU-13	Primary	3/25/2019	55.8	43,100	21.7
TTU-13	Primary	6/7/2019	39.9	42,300	22.6
TTU-13	Primary	9/16/2019	58.0	37,200	18.3
TTU-13	Primary	12/20/2019	40.2	37,800	17.0
TTU-13	Primary	3/12/2020	--	32,500	--
TTU-13	Primary	3/16/2020	32.2 J	32,700	15.4
TTU-13	Duplicate	3/16/2020	33.5 J	32,600	14.9
TTU-13	Primary	6/17/2020	48.5	28,600	14.6
TTU-13	Duplicate	6/17/2020	54.1	29,700	16.6
TTU-13	Primary	7/20/2020	29.6	29,300	13.3
TTU-13	Duplicate	7/20/2020	27.7	29,700	13.8
TTU-13	Primary	12/3/2020	25.3	25,500	11.2 J
TTU-13	Primary	3/30/2021	37.7 J	29,800	17.1

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-13	Primary	5/6/2021	37.9	28,100	12.9
TTU-13	Primary	7/29/2021	58.6	24,000	11.1
TTU-13	Primary	11/18/2021	3.26	11,000	1.44 J
TTU-13	Primary	3/22/2022	9.96	14,900	5.76
TTU-13	Primary	6/13/2022	28.9	17,100 V	5.52
TTU-13	Primary	9/8/2022	13.7	36,900	7.06
TTU-13	Primary	11/29/2022	33.5	23,300	12.7
TTU-13	Primary	2/23/2023	40	27,000	13
TTU-13	Primary	6/13/2023	33	24,000	9.3
TTU-13	Primary	9/6/2023	37	24,000	9.8
TTU-13	Primary	11/17/2023	21	23,000	9.4
TTU-13	Primary	2/12/2024	31.4	24,000	13.6
TTU-13	Primary	5/20/2024	31.8	21,300	11.7
TTU-14	Primary	8/29/2017	367	185,000	657
TTU-14	Primary	8/29/2017	367	190,000	657
TTU-14	Primary	11/27/2017	356	187,000	828
TTU-14	Primary	11/27/2017	356	190,000	828
TTU-14	Primary	3/27/2018	363	167,000	1,030
TTU-14	Primary	3/27/2018	363	170,000	1,030
TTU-14	Primary	6/28/2018	381	159,000	875
TTU-14	Primary	6/28/2018	381	160,000	875
TTU-14	Primary	9/10/2018	338	155,000	689
TTU-14	Primary	9/10/2018	338	160,000	689
TTU-14	Primary	12/17/2018	331	151,000	694
TTU-14	Primary	12/17/2018	331	150,000	694
TTU-14	Primary	3/27/2019	356	186,000	780
TTU-14	Primary	6/27/2019	427	155,000	--
TTU-14	Primary	9/16/2019	422	186,000	921
TTU-14	Primary	12/20/2019	280	159,000	1,060
TTU-14	Primary	3/12/2020	278 J	152,000	880
TTU-14	Primary	6/17/2020	504	133,000	891
TTU-14	Primary	7/20/2020	241	157,000	1,210
TTU-14	Primary	12/2/2020	388	174,000	917
TTU-14	Primary	3/30/2021	280 J	160,000	990
TTU-14	Primary	5/6/2021	370	151,000	831
TTU-14	Primary	7/29/2021	493	132,000	966
TTU-14	Primary	11/18/2021	279	12,600,000	917
TTU-14	Duplicate	3/21/2022	321	178,000	879
TTU-14	Primary	3/22/2022	339	124,000	908
TTU-14	Primary	6/14/2022	297 J3	136,000	1,040
TTU-14	Primary	9/9/2022	297	143,000	1,020
TTU-14	Primary	11/29/2022	288	148,000	882
TTU-14	Primary	2/25/2023	339	160,000	807
TTU-14	Primary	6/13/2023	269	140,000	764
TTU-14	Primary	9/7/2023	246	140,000	921
TTU-14	Primary	11/18/2023	356	130,000	712
TTU-14	Primary	2/12/2024	286	147,000	829
TTU-14	Primary	5/20/2024	211	111,000	763
TTU-14	Duplicate	5/20/2024	221	109,000	780
TTU-15	Primary	1/15/2019	0.0	5,200	0.0
TTU-15	Primary	3/27/2019	3.54	7,490	< 1.0
TTU-15	Primary	9/16/2019	3.95	9,480	< 1.00
TTU-15	Primary	12/20/2019	6.09	11,600	< 1.00
TTU-15	Primary	3/12/2020	3.02	12,100	< 1.00
TTU-15	Primary	6/17/2020	5.32	12,900	< 1.00
TTU-15	Primary	7/20/2020	2.81 J	12,800	< 1.00
TTU-15	Primary	12/2/2020	< 3.00	< 4.00	3.10
TTU-15	Primary	3/29/2021	5.33 J	0.856 J	12.9
TTU-15	Primary	5/5/2021	3.83	148	11.7
TTU-15	Primary	7/29/2021	6.26	< 4.00	13.0
TTU-15	Primary	11/17/2021	5.90	2,520	10.3
TTU-15	Primary	3/21/2022	6.93	4,230	7.89
TTU-15	Primary	6/13/2022	9.83	5,500	6.23

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-15	Primary	9/8/2022	8.21	5,510	6.08
TTU-15	Primary	11/29/2022	27.5	7,160	5.13
TTU-15	Primary	2/25/2023	16	8,300	4.9
TTU-15	Primary	6/12/2023	14	7,800	3.8
TTU-15	Primary	9/6/2023	4.7	9,900	3.1
TTU-15	Primary	11/18/2023	12	12,000	3.2
TTU-15	Duplicate	11/18/2023	6.4	11,000	3.2
TTU-15	Primary	4/9/2024	--	11,100	< 20.0
TTU-15	Primary	5/20/2024	6.70	9,100	3.52 J
TTU-16	Primary	3/13/2020	2,470 J	655,000	51,500
TTU-16	Primary	6/17/2020	4,310	1,030,000 J	68,400
TTU-16	Duplicate	6/17/2020	5,610	747,000 J	70,200
TTU-16	Primary	7/20/2020	2,220 J-	658,000	92,200
TTU-16	Primary	12/2/2020	1,730	866,000	80,000
TTU-16	Duplicate	12/2/2020	1,990	765,000	96,000
TTU-16	Primary	3/29/2021	2,880	822,000	76,800
TTU-16	Duplicate	3/29/2021	2,550	803,000	71,800
TTU-16	Primary	5/5/2021	4,920	834,000	77,400 J
TTU-16	Duplicate	5/5/2021	5,270	814,000	38,500 J
TTU-16	Primary	7/29/2021	5,140	750,000	86,000
TTU-16	Duplicate	7/29/2021	5,710	746,000	87,300
TTU-16	Primary	11/17/2021	3,930	879,000	93,200
TTU-16	Primary	3/21/2022	5,430	768,000	103,000
TTU-16	Primary	6/13/2022	3,600 J3	763,000	96,500
TTU-16	Primary	9/8/2022	--	913,000	9,520
TTU-16	Primary	11/29/2022	3,180	859,000	80,000
TTU-16	Primary	2/25/2023	32,800	830,000	69,100
TTU-16	Duplicate	2/25/2023	39,600	830,000	83,600
TTU-16	Primary	6/13/2023	2,300	820,000	78,000 L1
TTU-16	Primary	9/7/2023	2,880	770,000	59,400
TTU-16	Primary	11/18/2023	3,470	790,000	30,800
TTU-16	Primary	4/9/2024	--	817,000	68,500
TTU-16	Primary	5/20/2024	2,740	660,000	63,300
TTU-17	Primary	3/13/2020	< 0.424	1.69 J	0.463 J
TTU-17	Primary	6/17/2020	< 3.00	2.36 J	0.321 J
TTU-17	Primary	7/20/2020	< 3.00	< 4.00	0.367 J
TTU-17	Primary	12/2/2020	< 3.00	< 4.00	1.56
TTU-17	Primary	3/29/2021	< 3.00	2.78 J	5.00
TTU-17	Primary	5/5/2021	< 3.00	5.51 J+	4.13
TTU-17	Primary	7/29/2021	< 3.00	< 4.00	3.99
TTU-17	Primary	11/17/2021	< 3.00	< 4.00	3.08
TTU-17	Primary	3/21/2022	4.75	24.1	3.51
TTU-17	Primary	6/13/2022	10.1	9.45	2.10
TTU-17	Primary	9/8/2022	242	< 4.00	2.10
TTU-17	Primary	11/29/2022	264	13.3	1.41
TTU-17	Duplicate	11/29/2022	2.11 B;J	2.76 J	1.57
TTU-17	Primary	2/25/2023	< 3.0	--	1.3
TTU-17	Primary	6/12/2023	< 3.0	< 4.0	1.2 L1
TTU-17	Primary	9/6/2023	< 3.0	< 4.0	1.2
TTU-17	Primary	11/18/2023	< 3.0	12	0.72 E4
TTU-17	Primary	2/12/2024	< 3.00	< 4.00	0.661 E4
TTU-17	Primary	5/20/2024	8.75	26.5	< 1.00
TTU-19	Primary	10/26/2020	915 J	307,000	9,990
TTU-19	Primary	10/26/2020	781 J	312,000	12,900
TTU-19	Primary	9/23/2021	70.4 J-	< 200	478
TTU-19	Primary	6/20/2022	< 3.00	295	189
TTU-19	Duplicate	6/20/2022	< 3.00	42.9 J	373
TTU-19	Primary	9/3/2022	152 H1	--	293 M3
TTU-19	Primary	11/30/2022	< 3.00	120	360
TTU-19	Primary	2/25/2023	318	< 40	348
TTU-19	Primary	6/13/2023	247	23	310 L1
TTU-19	Primary	9/7/2023	209	15	158
TTU-19	Primary	11/18/2023	279	< 4.0	187

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-19	Duplicate	11/18/2023	232	< 4.0	164
TTU-19	Primary	2/13/2024	192	< 4.00	195
TTU-19	Primary	5/20/2024	185	< 4.00	165
TTU-2	Primary	11/13/2013	--	180,000	--
TTU-2	Primary	11/13/2013	--	180,000	--
TTU-2	Duplicate	11/13/2013	--	210,000	--
TTU-2	Duplicate	11/13/2013	--	230,000	--
TTU-2	Primary	8/26/2014	--	210,000	--
TTU-2	Primary	8/26/2014	--	210,000	--
TTU-2	Primary	11/18/2014	--	200,000	370
TTU-2	Primary	11/18/2014	--	200,000	--
TTU-2	Primary	12/23/2014	--	--	280
TTU-2	Primary	12/23/2014	--	--	280
TTU-2	Primary	2/5/2015	170	170,000	280
TTU-2	Primary	2/5/2015	170	170,000	280
TTU-2	Primary	5/18/2015	160	170,000	190
TTU-2	Primary	5/18/2015	160	170,000	190
TTU-2	Primary	9/9/2015	170	170,000	200
TTU-2	Primary	9/9/2015	170	170,000	200
TTU-2	Primary	11/23/2015	140	170,000	150
TTU-2	Primary	11/23/2015	140	170,000	150
TTU-2	Primary	2/25/2016	110	170,000	150
TTU-2	Primary	2/25/2016	110	170,000	150
TTU-2	Primary	6/1/2016	88.2	116,000	50.3
TTU-2	Primary	6/1/2016	88	120,000 J	50
TTU-2	Primary	8/18/2016	150	190,000	360
TTU-2	Primary	8/18/2016	150	190,000	360
TTU-2	Primary	11/22/2016	260	220,000	780
TTU-2	Primary	11/22/2016	260	220,000	780
TTU-2	Primary	2/22/2017	244	165,000	727
TTU-2	Primary	2/22/2017	244	170,000	727
TTU-2	Primary	5/23/2017	222	236,000	880
TTU-2	Primary	5/23/2017	222 J	240,000	880
TTU-2	Primary	8/29/2017	241	248,000	93.2
TTU-2	Duplicate	8/29/2017	227	261,000	89.7
TTU-2	Primary	8/29/2017	241	250,000	93
TTU-2	Duplicate	8/29/2017	227	260,000	90
TTU-2	Primary	11/27/2017	235	241,000	353
TTU-2	Primary	11/27/2017	235	240,000	353
TTU-2	Primary	3/27/2018	219	178,000	236
TTU-2	Duplicate	3/27/2018	152	--	274
TTU-2	Duplicate	3/27/2018	152	143,000 J	274
TTU-2	Primary	3/27/2018	219 J	180,000 J	236
TTU-2	Duplicate	3/27/2018	152 J	140,000 J	274
TTU-2	Primary	6/28/2018	246	196,000	498
TTU-2	Primary	6/28/2018	246	200,000	498
TTU-2	Primary	9/10/2018	246	190,000	433
TTU-2	Primary	9/10/2018	246	190,000	433
TTU-2	Primary	12/4/2018	232	168,000	288
TTU-2	Primary	12/4/2018	232	170,000	288
TTU-2	Primary	3/25/2019	313	180,000	364
TTU-2	Primary	9/16/2019	295	173,000	475
TTU-2	Primary	12/20/2019	211	223,000	711
TTU-2	Duplicate	12/20/2019	215	178,000	742
TTU-2	Primary	3/12/2020	227 J	186,000	511
TTU-2	Primary	6/18/2020	292	194,000	824
TTU-2	Primary	7/20/2020	156	181,000	959
TTU-2	Primary	12/2/2020	329	459 J	785
TTU-2	Primary	3/30/2021	196 J	187,000	656
TTU-2	Duplicate	3/30/2021	244 J	188,000	720
TTU-2	Primary	5/6/2021	316	178,000	683
TTU-2	Primary	7/29/2021	373	155,000	654
TTU-2	Primary	12/22/2021	280	171,000	627

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-2	Duplicate	12/22/2021	281	198,000	653
TTU-2	Primary	3/26/2022	251	151,000 M3	823
TTU-2	Primary	6/16/2022	246 Q	169,000 V	443
TTU-2	Primary	10/10/2022	170	157,000	596 M3
TTU-2	Primary	11/28/2022	230 V	179,000	643 V
TTU-2	Primary	2/23/2023	362	180,000	648
TTU-2	Primary	6/15/2023	239	150,000	406
TTU-2	Duplicate	6/15/2023	269	160,000	429
TTU-2	Primary	9/14/2023	234	170,000	566
TTU-2	Primary	9/14/2023	200	150,000	501
TTU-2	Primary	11/17/2023	221	150,000	561
TTU-2	Primary	2/13/2024	207	150,000	529
TTU-2	Primary	5/21/2024	251	150,000	500
TTU-20	Primary	10/26/2020	567 J	206,000	4,480
TTU-20	Primary	10/26/2020	824 J	403,000	6,360
TTU-20	Primary	6/14/2021	1,450 J	559,000	11,200 J
TTU-20	Primary	9/23/2021	841 J	455,000	14,300
TTU-20	Primary	11/18/2021	2,140	526,000	13,400
TTU-20	Primary	6/16/2022	1,540 Q	454,000	10,800
TTU-20	Primary	9/3/2022	1,140 H1	528,000	13,200 L1
TTU-20	Duplicate	9/3/2022	1,250 H1	537,000	10,700
TTU-20	Primary	11/30/2022	1,490	581,000	12,400
TTU-20	Primary	2/25/2023	19,600	620,000	12,800
TTU-20	Primary	9/14/2023	499	< 4.0	2.4 E4
TTU-20	Primary	2/13/2024	378	85,900	1,860
TTU-20	Primary	5/21/2024	348	121,000	1,920
TTU-3	Primary	11/13/2013	--	340	--
TTU-3	Primary	11/13/2013	--	340	--
TTU-3	Duplicate	11/13/2013	--	330	--
TTU-3	Duplicate	11/13/2013	--	320	--
TTU-3	Primary	8/26/2014	--	78.0	--
TTU-3	Primary	8/26/2014	--	78	--
TTU-3	Primary	11/18/2014	--	300	--
TTU-3	Primary	11/18/2014	--	300	--
TTU-3	Primary	12/23/2014	--	--	< 2.0
TTU-3	Primary	2/5/2015	< 2.0	500	< 2.0
TTU-3	Primary	5/18/2015	< 2.0	150	< 2.0
TTU-3	Primary	9/9/2015	< 2.0	60	< 2.0
TTU-3	Primary	11/23/2015	< 2.0	35	< 2.0
TTU-3	Primary	2/25/2016	< 2.0	50 S	< 2.0
TTU-3	Primary	6/1/2016	1.2 J	44 J	< 1.0
TTU-3	Primary	8/18/2016	< 2.0	50	< 2.0
TTU-3	Primary	11/22/2016	< 2.0	96	< 2.0
TTU-3	Primary	2/22/2017	< 1.0	240	< 1.0
TTU-3	Primary	5/23/2017	< 1.0	77	2.5
TTU-3	Primary	8/29/2017	< 1.0	120	< 1.0
TTU-3	Primary	11/27/2017	< 1.0	73	< 1.0
TTU-3	Primary	3/27/2018	< 3.0	249	< 0.40
TTU-3	Primary	3/27/2018	< 3.0	250	< 0.40
TTU-3	Primary	6/28/2018	< 3.0	22.8	< 0.40
TTU-3	Primary	6/28/2018	< 3.0	23	< 0.40
TTU-3	Primary	9/10/2018	< 3.0	42	< 0.40
TTU-3	Primary	9/10/2018	< 3.0	42	< 0.40
TTU-3	Primary	12/10/2018	< 3.0	43.3	< 0.40
TTU-3	Primary	12/10/2018	< 3.0	43	< 0.40
TTU-3	Primary	3/26/2019	< 3.0	67.8	< 1.0
TTU-3	Primary	6/7/2019	< 3.0	19.7	< 1.0
TTU-3	Primary	9/16/2019	< 3.00	14.3	< 1.00
TTU-3	Primary	12/23/2019	< 3.00	42.2	< 1.00
TTU-3	Primary	3/13/2020	< 3.00	107	< 1.00
TTU-3	Primary	6/18/2020	< 3.00	50.9	< 1.00
TTU-3	Primary	7/21/2020	< 3.00	20.5	< 1.00
TTU-3	Primary	12/4/2020	< 3.00	28.4 J-	< 1.00

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-3	Primary	3/29/2021	< 3.00	92.0	< 1.00
TTU-3	Primary	5/6/2021	< 3.00	33.8	< 1.00
TTU-3	Duplicate	5/6/2021	< 3.00	33.7	< 1.00
TTU-3	Primary	7/30/2021	< 3.00	7.16	< 1.00
TTU-3	Primary	11/18/2021	< 3.00	161	< 1.00
TTU-3	Primary	3/22/2022	< 3.00	339	0.454 E4
TTU-3	Primary	6/14/2022	< 3.00 U,J3	134	< 1.00 U,J3
TTU-3	Primary	9/9/2022	< 3.00	54.8	< 1.00
TTU-3	Primary	11/30/2022	< 3.00 U;J3	70.0	< 1.00
TTU-3	Duplicate	11/30/2022	< 3.00	78.2 V	< 1.00
TTU-3	Primary	2/25/2023	< 3.0	280	0.27 E4
TTU-3	Duplicate	2/25/2023	< 3.0	280	< 1.0
TTU-3	Primary	6/12/2023	< 3.0	< 4.0	< 1.0
TTU-3	Primary	9/5/2023	< 3.0	20	< 1.0
TTU-3	Primary	11/17/2023	9.2	11	< 1.0
TTU-3	Primary	2/12/2024	5.72	54.0	< 1.00
TTU-3	Primary	3/18/2024	< 3.00	--	--
TTU-3	Primary	5/21/2024	< 3.00	194	< 1.00
TTU-4	Primary	11/13/2013	--	< 2.0	--
TTU-4	Duplicate	11/13/2013	--	< 2.0	--
TTU-4	Primary	8/26/2014	--	< 2.0	--
TTU-4	Primary	11/18/2014	--	6.5	--
TTU-4	Primary	12/23/2014	--	--	< 2.0
TTU-4	Primary	2/5/2015	< 2.0	< 2.0	< 2.0
TTU-4	Primary	5/18/2015	< 2.0	24	< 2.0
TTU-4	Primary	9/9/2015	< 2.0	< 2.0	< 2.0
TTU-4	Primary	11/23/2015	< 2.0	< 2.0	< 2.0
TTU-4	Duplicate	11/23/2015	< 2.0	< 2.0	< 2.0
TTU-4	Primary	2/25/2016	< 2.0	< 2.0	< 2.0
TTU-4	Duplicate	2/25/2016	< 2.0	< 2.0	< 2.0
TTU-4	Primary	6/1/2016	< 3.0	0.87 J	< 1.0
TTU-4	Duplicate	6/1/2016	< 3.0	0.91 J	< 1.0
TTU-4	Primary	8/18/2016	< 2.0	< 1.0	< 2.0
TTU-4	Duplicate	8/18/2016	< 2.0	< 1.0	< 2.0
TTU-4	Primary	11/22/2016	< 2.0	< 1.0	< 2.0
TTU-4	Duplicate	11/22/2016	< 2.0	< 1.0	< 2.0
TTU-4	Primary	2/22/2017	< 1.0	< 3.0	< 1.0
TTU-4	Duplicate	2/22/2017	< 1.0	< 3.0	< 1.0
TTU-4	Primary	5/23/2017	< 1.0	< 3.0	0.31 J
TTU-4	Duplicate	5/23/2017	< 1.0	< 3.0	< 1.0
TTU-4	Primary	8/29/2017	< 1.0	< 3.0 J	< 1.0
TTU-4	Duplicate	8/29/2017	< 1.0	27 J	< 1.0
TTU-4	Primary	11/27/2017	< 1.0	8.0	< 1.0
TTU-4	Duplicate	11/27/2017	< 1.0	20	< 1.0
TTU-4	Primary	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-4	Duplicate	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-4	Primary	6/28/2018	< 3.0	< 3.0	< 0.40
TTU-4	Duplicate	6/28/2018	< 3.0	< 3.0	< 0.40
TTU-4	Primary	9/10/2018	< 3.0	4.7	< 0.40
TTU-4	Duplicate	9/10/2018	< 3.0	< 3.0	< 0.40
TTU-4	Primary	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-4	Duplicate	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-4	Primary	3/26/2019	< 3.0	< 4.0	< 1.0
TTU-4	Primary	6/7/2019	< 3.0	1.94 J	< 1.0
TTU-4	Primary	9/16/2019	< 3.00	28.2 J-	< 1.00
TTU-4	Primary	12/23/2019	< 3.00	< 4.00	< 1.00
TTU-4	Primary	3/13/2020	< 3.00	< 4.00	< 1.00
TTU-4	Primary	6/18/2020	< 3.00	< 4.00	< 1.00
TTU-4	Primary	7/21/2020	< 3.00	1.85 J	< 1.00
TTU-4	Duplicate	7/21/2020	< 3.00	1.69 J	< 1.00
TTU-4	Primary	12/4/2020	< 3.00	< 4.00	< 1.00
TTU-4	Primary	3/29/2021	< 3.00	1.99 J	< 1.00
TTU-4	Primary	5/6/2021	< 3.00	5.89	< 1.00

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-4	Duplicate	5/6/2021	< 3.00	6.31	< 1.00
TTU-4	Primary	7/30/2021	< 3.00	1.97 J	< 1.00
TTU-4	Duplicate	7/30/2021	< 3.00	1.75 J	< 1.00
TTU-4	Primary	11/18/2021	< 3.00	< 4.00	< 1.00
TTU-4	Duplicate	3/21/2022	2.59 E4	12.5	< 1.00
TTU-4	Primary	3/22/2022	< 3.00	4.14 M2	< 1.00
TTU-4	Primary	6/14/2022	11.1	12.1 J6	< 1.00 U,J3
TTU-4	Primary	7/21/2022	< 3.00	--	< 1.00
TTU-4	Duplicate	7/21/2022	< 3.00	--	< 1.00
TTU-4	Primary	9/9/2022	< 3.00	2.57 E4	< 1.00
TTU-4	Primary	11/30/2022	1.84 J	1.72 J	< 1.00
TTU-4	Primary	2/25/2023	< 3.0	1.1 E4	< 1.0
TTU-4	Primary	6/12/2023	< 3.0	< 4.0	< 1.0
TTU-4	Primary	9/5/2023	< 3.0	< 4.0	< 1.0
TTU-4	Primary	11/17/2023	< 3.0	< 4.0	< 1.0
TTU-4	Primary	2/13/2024	< 3.00	< 4.00	< 1.00
TTU-4	Duplicate	2/13/2024	< 3.00	< 4.00	< 1.00
TTU-4	Primary	5/21/2024	< 3.00	< 4.00	< 1.00
TTU-5	Primary	11/18/2014	--	7.0	--
TTU-5	Primary	12/23/2014	--	--	< 2.0
TTU-5	Primary	2/5/2015	< 2.0	26	< 2.0
TTU-5	Primary	5/18/2015	< 2.0	39	< 2.0
TTU-5	Primary	9/9/2015	< 2.0	37	< 2.0
TTU-5	Primary	11/23/2015	< 2.0	34	< 2.0
TTU-5	Primary	2/25/2016	< 2.0	33	< 2.0
TTU-5	Primary	6/1/2016	< 3.0	36 J	< 1.0
TTU-5	Primary	8/18/2016	< 2.0	34	< 2.0
TTU-5	Primary	11/22/2016	< 2.0	30	< 2.0
TTU-5	Primary	2/22/2017	< 1.0	35	< 1.0
TTU-5	Primary	5/23/2017	< 1.0	38	< 1.0
TTU-5	Primary	8/29/2017	< 1.0	70	< 1.0
TTU-5	Primary	11/27/2017	< 1.0	36	< 1.0
TTU-5	Primary	3/27/2018	< 3.0	36.7	< 0.40
TTU-5	Primary	3/27/2018	< 3.0	37	< 0.40
TTU-5	Primary	6/28/2018	< 3.0	33	< 0.40
TTU-5	Primary	6/28/2018	< 3.0	33	< 0.40
TTU-5	Primary	9/10/2018	< 3.0	30.8	< 0.40
TTU-5	Primary	9/10/2018	< 3.0	31	< 0.40
TTU-5	Primary	12/10/2018	< 3.0	33.1	< 0.40
TTU-5	Primary	12/10/2018	< 3.0	33	< 0.40
TTU-5	Primary	3/26/2019	< 3.0	40	< 1.0
TTU-5	Primary	6/7/2019	< 3.0	--	< 1.0
TTU-5	Primary	6/27/2019	--	44.1	--
TTU-5	Primary	9/16/2019	< 3.00	37.8	< 1.00
TTU-5	Primary	12/20/2019	3.54	40.6	< 1.00
TTU-5	Primary	3/12/2020	< 3.00	34.6	< 1.00
TTU-5	Primary	6/17/2020	< 3.00	40.8	< 1.00
TTU-5	Primary	7/20/2020	< 3.00	40.9	< 1.00
TTU-5	Primary	12/2/2020	< 3.00	43.9	0.877 J
TTU-5	Primary	3/30/2021	< 3.00	41.2	< 1.00
TTU-5	Primary	5/6/2021	< 3.00	40.0	< 1.00
TTU-5	Primary	7/29/2021	< 3.00	38.7	< 1.00
TTU-5	Primary	11/17/2021	< 3.00	40.1	< 1.00
TTU-5	Primary	3/21/2022	< 3.00	272	0.640 E4
TTU-5	Primary	6/13/2022	130	63.6	< 1.00
TTU-5	Primary	7/21/2022	< 3.00	--	< 1.00
TTU-5	Primary	9/8/2022	< 3.00	1.25 E4	< 1.00
TTU-5	Primary	11/29/2022	21.5	40.6	< 1.00
TTU-5	Primary	2/25/2023	< 3.0	42	< 1.0
TTU-5	Primary	6/13/2023	< 3.0	36	< 1.0
TTU-5	Primary	9/6/2023	< 3.0	41	< 1.0
TTU-5	Primary	11/17/2023	< 3.0	38	< 1.0
TTU-5	Duplicate	11/17/2023	< 3.0	38	< 1.0
TTU-5	Primary	2/13/2024	< 3.00	37.7	< 1.00
TTU-5	Primary	5/20/2024	< 3.00	38.7	< 1.00
TTU-6	Primary	11/18/2014	--	180	--

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-6	Primary	12/23/2014	--	--	< 2.0
TTU-6	Primary	2/5/2015	< 2.0	11	< 2.0
TTU-6	Primary	5/18/2015	< 2.0	32	< 2.0
TTU-6	Primary	9/9/2015	< 2.0	190	< 2.0
TTU-6	Primary	11/23/2015	< 2.0	20	< 2.0
TTU-6	Primary	2/25/2016	< 2.0	5.8	< 2.0
TTU-6	Primary	6/1/2016	< 3.0	200 J	< 1.0
TTU-6	Primary	8/18/2016	< 2.0	40	< 2.0
TTU-6	Primary	11/22/2016	< 2.0	15	< 2.0
TTU-6	Primary	2/22/2017	< 1.0	16	< 1.0
TTU-6	Primary	5/23/2017	< 1.0	23	< 1.0
TTU-6	Primary	8/29/2017	< 1.0	92	0.38 J
TTU-6	Primary	11/27/2017	< 1.0	17	< 1.0
TTU-6	Primary	3/27/2018	< 3.0	31.7	< 0.40
TTU-6	Primary	3/27/2018	< 3.0	32	< 0.40
TTU-6	Primary	6/28/2018	< 3.0	88.7	< 0.40
TTU-6	Primary	6/28/2018	< 3.0	89	< 0.40
TTU-6	Primary	9/10/2018	< 3.0	13	< 0.40
TTU-6	Primary	9/10/2018	< 3.0	13	< 0.40
TTU-6	Primary	12/10/2018	< 3.0	35.3	< 0.40
TTU-6	Primary	12/10/2018	< 3.0	35	< 0.40
TTU-6	Primary	3/26/2019	< 3.0	0.92 J	< 1.0
TTU-6	Primary	6/7/2019	< 3.0	10.2	< 1.0
TTU-6	Duplicate	6/7/2019	< 3.0	9.60	< 1.0
TTU-6	Primary	9/16/2019	< 3.00	24.4 J+	< 1.00
TTU-6	Primary	12/23/2019	< 3.00	48.1	< 1.00
TTU-6	Primary	3/13/2020	< 3.00	10.2	< 1.00
TTU-6	Primary	6/18/2020	< 3.00	7.04	< 1.00
TTU-6	Primary	7/21/2020	< 3.00	8.16	< 1.00
TTU-6	Primary	12/4/2020	< 3.00	7.29	< 1.00
TTU-6	Primary	3/29/2021	< 3.00	7.80	< 1.00
TTU-6	Primary	5/6/2021	< 3.00	9.01	< 1.00
TTU-6	Primary	7/30/2021	< 3.00	< 4.00	< 1.00
TTU-6	Primary	11/18/2021	< 3.00	14.8	< 1.00
TTU-6	Primary	3/22/2022	< 3.00	11.1	< 1.00
TTU-6	Primary	6/14/2022	< 3.00 U,J3	7.15	< 1.00
TTU-6	Primary	9/9/2022	--	42.1	< 1.00
TTU-6	Primary	11/30/2022	< 3.00	144	< 1.00
TTU-6	Primary	12/22/2022	--	153	--
TTU-6	Primary	1/6/2023	--	140	--
TTU-6	Primary	2/25/2023	< 3.0	55 M3	0.22 E4
TTU-6	Primary	3/21/2023	--	21 M2	--
TTU-6	Primary	6/12/2023	< 3.0	35 M2	< 1.0
TTU-6	Primary	9/5/2023	< 3.0	21 M1	< 1.0
TTU-6	Primary	11/17/2023	< 3.0	13	< 1.0
TTU-6	Primary	2/12/2024	< 3.00	18.1	< 1.00
TTU-6	Primary	5/21/2024	< 3.00	17.4 J+	< 1.00
TTU-7	Primary	11/18/2014	--	6.8	--
TTU-7	Duplicate	11/18/2014	--	< 4.0	--
TTU-7	Primary	12/23/2014	--	--	< 2.0
TTU-7	Primary	2/5/2015	< 2.0	5.5 J	< 2.0
TTU-7	Duplicate	2/5/2015	< 2.0	14 J	< 2.0
TTU-7	Primary	5/18/2015	< 2.0	18 J	< 2.0
TTU-7	Duplicate	5/18/2015	--	33 J	< 2.0
TTU-7	Primary	9/9/2015	< 2.0	5.7	< 2.0
TTU-7	Primary	11/23/2015	< 2.0	5.1	< 2.0
TTU-7	Primary	2/25/2016	< 2.0	4.6	< 2.0
TTU-7	Primary	6/1/2016	< 3.0	7.3 J	< 1.0
TTU-7	Primary	8/18/2016	2.5	4.2	< 2.0
TTU-7	Duplicate	8/18/2016	< 2.0	--	--
TTU-7	Primary	11/22/2016	< 2.0	2.0	< 2.0
TTU-7	Primary	2/22/2017	< 1.0	< 3.0	< 1.0
TTU-7	Primary	5/23/2017	< 1.0	< 3.0	< 1.0

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-7	Primary	8/29/2017	< 1.0	< 3.0	< 1.0
TTU-7	Primary	11/27/2017	< 1.0	< 6.0	< 1.0
TTU-7	Primary	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-7	Primary	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-7	Primary	6/28/2018	< 3.0	< 3.0	< 0.40
TTU-7	Primary	6/28/2018	< 3.0	< 3.0	< 0.40
TTU-7	Primary	9/10/2018	< 3.0	< 6.0	< 0.40
TTU-7	Primary	9/10/2018	< 3.0	< 6.0	< 0.40
TTU-7	Primary	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-7	Primary	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-7	Primary	3/26/2019	< 3.0	19.7 J	< 1.0
TTU-7	Duplicate	3/26/2019	< 3.0	88.2 J	< 1.0
TTU-7	Primary	6/7/2019	< 3.0	< 4.0	< 1.0
TTU-7	Primary	9/16/2019	< 3.00	3.36 J	< 1.00
TTU-7	Primary	12/23/2019	< 3.00	< 4.00	< 1.00
TTU-7	Primary	3/13/2020	< 3.00	< 4.00	< 1.00
TTU-7	Primary	6/18/2020	< 3.00	< 4.00	< 1.00
TTU-7	Primary	7/21/2020	< 3.00	< 4.00 J	< 1.00
TTU-7	Primary	12/4/2020	< 3.00	< 20.0	< 1.00
TTU-7	Primary	3/29/2021	< 3.00	< 4.00	< 1.00
TTU-7	Primary	5/6/2021	< 3.00	5.93	< 1.00
TTU-7	Primary	7/30/2021	< 3.00	< 40.0	< 1.00
TTU-7	Primary	11/18/2021	< 3.00	10.5 J	< 1.00
TTU-7	Primary	3/22/2022	< 3.00	2.36 E4	< 1.00
TTU-7	Primary	6/14/2022	< 3.00 U,J3	1.90 J	< 1.00 U,J3
TTU-7	Primary	9/9/2022	< 3.00	1.04 E4	< 1.00
TTU-7	Primary	11/30/2022	< 3.00	< 4.00	< 1.00
TTU-7	Primary	2/25/2023	< 3.0	< 4.0	< 1.0
TTU-7	Primary	6/12/2023	< 3.0	< 4.0	< 1.0
TTU-7	Duplicate	6/12/2023	< 3.0	< 4.0	< 1.0
TTU-7	Primary	9/5/2023	< 3.0	< 4.0	< 1.0
TTU-7	Primary	11/17/2023	< 3.0	< 4.0	< 1.0
TTU-7	Primary	2/12/2024	< 3.00	< 4.00	< 1.00
TTU-7	Primary	5/21/2024	< 3.00	< 4.00	< 1.00
TTU-8	Primary	7/21/2016	< 2.0	< 1.0	< 2.0
TTU-8	Primary	8/18/2016	< 2.0	< 1.0	< 2.0
TTU-8	Primary	11/22/2016	< 2.0	< 1.0	< 2.0
TTU-8	Primary	2/22/2017	< 1.0	< 3.0	< 1.0
TTU-8	Primary	5/23/2017	< 1.0	< 3.0	< 1.0
TTU-8	Primary	8/29/2017	< 1.0	< 3.0	< 1.0
TTU-8	Primary	11/27/2017	< 1.0	< 6.0	< 1.0
TTU-8	Primary	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-8	Primary	3/27/2018	< 3.0	< 3.0	< 0.40
TTU-8	Primary	6/28/2018	< 3.0	11.7	< 0.40
TTU-8	Primary	6/28/2018	< 3.0	12	< 0.40
TTU-8	Primary	9/10/2018	< 3.0	< 6.0	< 0.40
TTU-8	Primary	9/10/2018	< 3.0	< 6.0	< 0.40
TTU-8	Primary	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-8	Primary	12/10/2018	< 3.0	< 3.0	< 0.40
TTU-8	Primary	3/26/2019	< 3.0	< 4.0	< 1.0
TTU-8	Primary	6/7/2019	< 3.0	< 4.0	< 1.0
TTU-8	Primary	9/16/2019	< 3.00	1.96 J	< 1.00
TTU-8	Primary	12/23/2019	< 3.00	< 4.00	< 1.00
TTU-8	Primary	3/16/2020	< 3.00	3.06 J	< 1.00
TTU-8	Duplicate	3/16/2020	< 3.00	2.50 J	< 1.00
TTU-8	Primary	6/18/2020	< 3.00	< 4.00 J	< 1.00
TTU-8	Duplicate	6/18/2020	< 3.00	2.16 J	< 1.00
TTU-8	Primary	7/21/2020	< 3.00	< 4.00	< 1.00
TTU-8	Primary	12/4/2020	< 3.00	< 4.00	< 1.00
TTU-8	Primary	3/29/2021	< 3.00	< 4.00	< 1.00
TTU-8	Primary	5/6/2021	< 3.00	1.64 J	< 1.00
TTU-8	Primary	7/30/2021	< 3.00	< 4.00	< 1.00
TTU-8	Primary	11/18/2021	< 3.00	< 4.00	< 1.00

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-8	Primary	3/22/2022	< 3.00	0.981 E4	< 1.00
TTU-8	Primary	6/14/2022	< 3.00	1.84 J	< 1.00
TTU-8	Primary	9/9/2022	< 3.00	< 4.00	< 1.00
TTU-8	Duplicate	9/9/2022	< 3.00	0.614 E4	< 1.00
TTU-8	Primary	11/30/2022	< 3.00	1.77 J	< 1.00
TTU-8	Primary	2/25/2023	< 3.0	0.39 E4	< 1.0
TTU-8	Primary	6/12/2023	< 3.0	< 4.0	< 1.0
TTU-8	Primary	9/5/2023	< 3.0	< 4.0	< 1.0
TTU-8	Primary	9/6/2023	--	< 4.0	< 1.0
TTU-8	Primary	11/17/2023	< 3.0	< 4.0	< 1.0
TTU-8	Duplicate	11/17/2023	< 3.0	< 4.0	< 1.0
TTU-8	Primary	2/14/2024	< 3.00	< 4.00	< 1.00
TTU-8	Primary	5/21/2024	< 3.00	< 4.00	< 1.00
TTU-9A	Primary	7/21/2016	< 2.0	2.3	< 2.0
TTU-9A	Primary	8/18/2016	< 2.0	6.6	< 2.0
TTU-9A	Primary	11/22/2016	< 2.0	5.1	< 2.0
TTU-9A	Primary	2/22/2017	< 1.0	6.4	< 1.0
TTU-9A	Primary	5/23/2017	< 1.0	8.8	< 1.0
TTU-9A	Primary	8/29/2017	< 1.0	8.1	< 1.0
TTU-9A	Primary	11/27/2017	< 1.0	6.5	< 1.0
TTU-9A	Primary	3/27/2018	< 3.0	6.6	< 0.40
TTU-9A	Primary	6/28/2018	< 3.0	8.5	< 0.40
TTU-9A	Primary	9/10/2018	< 3.0	7.5	< 0.40
TTU-9A	Primary	12/10/2018	< 3.0	8.5	< 0.40
TTU-9A	Primary	3/26/2019	< 3.0	7.53	< 1.0
TTU-9A	Primary	6/7/2019	< 3.0	8.14	< 1.0
TTU-9A	Primary	9/16/2019	< 3.00	12.6 J-	< 1.00
TTU-9A	Primary	12/20/2019	1.01 J	9.21 J+	< 1.00
TTU-9A	Primary	3/12/2020	11.9 J	7.97	< 1.00
TTU-9A	Primary	6/17/2020	< 3.00	12.9 J-	< 1.00
TTU-9A	Primary	7/20/2020	< 3.00	9.59	< 1.00
TTU-9A	Primary	12/2/2020	< 3.00	8.46 J+	6.46 J
TTU-9A	Primary	3/30/2021	< 3.00	8.21	7.53
TTU-9A	Primary	5/6/2021	< 3.00	7.19	4.76
TTU-9A	Primary	7/29/2021	< 3.00	15.9 J+	2.75
TTU-9A	Primary	11/17/2021	< 3.00	6.41	0.911 J
TTU-9A	Duplicate	11/17/2021	< 3.00	6.59	0.985 J
TTU-9A	Primary	3/22/2022	< 3.00	12.9 M2	0.944 E4
TTU-9A	Primary	6/13/2022	4.82	7.02 J5	< 1.00
TTU-9A	Primary	7/21/2022	< 3.00	--	0.221 J
TTU-9A	Primary	9/8/2022	< 3.00	6.57	< 1.00
TTU-9A	Primary	11/29/2022	< 3.00	5.75	< 1.00
TTU-9A	Primary	2/23/2023	18	8.8	< 1.0
TTU-9A	Primary	3/21/2023	< 3.0	--	< 1.0
TTU-9A	Duplicate	6/12/2023	< 3.0	6.7	< 1.0
TTU-9A	Primary	6/13/2023	< 3.0	6.4	< 1.0
TTU-9A	Primary	9/6/2023	< 3.0	5.8	< 1.0
TTU-9A	Primary	11/17/2023	< 3.0	5.6	< 1.0
TTU-9A	Primary	2/13/2024	< 3.00	6.06	< 1.00
TTU-9A	Primary	5/20/2024	< 3.00	< 20.0	< 1.00
TTU-9A	Duplicate	5/20/2024	< 3.00	< 20.0	< 1.00
TTU-EX-1	Primary	3/13/2020	24.5	113,000	265
TTU-EX-1	Primary	6/17/2020	284	126,000	168
TTU-EX-1	Primary	7/20/2020	207	125,000	163
TTU-EX-1	Primary	12/2/2020	466	108,000	240
TTU-EX-1	Primary	3/29/2021	340 J	109,000	262
TTU-EX-1	Primary	5/5/2021	258	111,000	286
TTU-EX-1	Primary	7/29/2021	702	94,700	372
TTU-EX-1	Primary	11/17/2021	112	219,000	79.0
TTU-EX-1	Primary	3/21/2022	244	153,000	181
TTU-EX-1	Primary	6/13/2022	324 J3	58,500	174
TTU-EX-1	Primary	9/8/2022	68.2	86,300	75.1
TTU-EX-1	Primary	11/29/2022	105	97,100	59.1

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-EX-1	Primary	2/23/2023	251	120,000	127
TTU-EX-1	Primary	6/13/2023	220	93,000	161 L1
TTU-EX-1	Primary	9/6/2023	202	94,000	194
TTU-EX-1	Primary	9/6/2023	163	100,000	195
TTU-EX-1	Primary	11/18/2023	351	70,000 M3	182
TTU-EX-1	Primary	2/13/2024	326	90,000	241
TTU-EX-1	Primary	5/20/2024	293	82,000	226
TTU-EX-2	Primary	3/13/2020	198 J	75,000	327
TTU-EX-2	Primary	6/17/2020	405	90,100	549
TTU-EX-2	Primary	7/20/2020	212	96,400	561
TTU-EX-2	Primary	12/2/2020	424	104,000	506
TTU-EX-2	Primary	3/30/2021	334 J	106,000	634
TTU-EX-2	Primary	5/5/2021	218	101,000	536
TTU-EX-2	Primary	7/29/2021	523	106,000	630
TTU-EX-2	Primary	11/17/2021	158	66,900	238
TTU-EX-2	Primary	3/21/2022	213	58,900	234
TTU-EX-2	Primary	6/13/2022	189 J3	60,200	315
TTU-EX-2	Primary	9/8/2022	74.9	19,300	68.1
TTU-EX-2	Primary	11/29/2022	143	47,700	197
TTU-EX-2	Primary	2/23/2023	162	66,000	166
TTU-EX-2	Duplicate	2/23/2023	197	610,000	143
TTU-EX-2	Primary	6/13/2023	236 M3	74,000	338 L1
TTU-EX-2	Primary	9/6/2023	191	87,000	433
TTU-EX-2	Primary	11/18/2023	266	84,000	329
TTU-EX-2	Primary	2/13/2024	256	93,200	415
TTU-EX-2	Primary	5/20/2024	223	75,700	375
TTU-EX-3	Primary	3/13/2020	175 J	468,000	5,960
TTU-EX-3	Primary	6/17/2020	785	390,000	6,050
TTU-EX-3	Primary	7/20/2020	610	363,000	7,390
TTU-EX-3	Primary	12/2/2020	805 J-	435,000	5,970 J
TTU-EX-3	Primary	3/30/2021	697	441,000	5,560
TTU-EX-3	Primary	5/5/2021	536	434,000	5,540
TTU-EX-3	Primary	7/29/2021	1,010	430,000	7,260
TTU-EX-3	Primary	11/17/2021	909	434,000	8,120
TTU-EX-3	Duplicate	11/17/2021	969	469,000	8,010
TTU-EX-3	Primary	3/21/2022	885	359,000	6,560
TTU-EX-3	Primary	6/13/2022	863 J3	375,000	6,020
TTU-EX-3	Primary	9/8/2022	741	406,000	7,220
TTU-EX-3	Primary	11/29/2022	735	497,000	6,620
TTU-EX-3	Primary	2/23/2023	916	90,000	6,520
TTU-EX-3	Duplicate	6/12/2023	721	440,000 H1	7,580 L1
TTU-EX-3	Primary	6/13/2023	761	430,000	7,690 L1
TTU-EX-3	Primary	9/6/2023	598	460,000	8,100
TTU-EX-3	Primary	11/18/2023	1,490	460,000	6,890
TTU-EX-3	Primary	2/12/2024	523	468,000	5,930
TTU-EX-3	Primary	5/20/2024	517	511,000	7,320
TTU-EX-3	Duplicate	5/20/2024	676	537,000	7,070
TTU-EX-4	Primary	3/13/2020	16.1	95,500	811
TTU-EX-4	Primary	6/17/2020	23.7	75,000	1,040
TTU-EX-4	Primary	7/20/2020	18.1	130,000	934
TTU-EX-4	Primary	12/2/2020	20.7	101,000	501
TTU-EX-4	Primary	3/30/2021	16.3	88,400	486
TTU-EX-4	Primary	5/5/2021	12.8	83,100	420
TTU-EX-4	Primary	7/29/2021	29.0	77,300	461
TTU-EX-4	Primary	11/17/2021	16.1	86,700	755
TTU-EX-4	Primary	3/21/2022	23.9	86,100	909
TTU-EX-4	Primary	6/13/2022	27.4	88,300	579
TTU-EX-4	Duplicate	6/13/2022	26.1	94,700	635
TTU-EX-4	Primary	9/8/2022	41.4	88,200	698
TTU-EX-4	Primary	11/29/2022	51.5	98,700	612
TTU-EX-4	Primary	2/23/2023	17	95,000	836
TTU-EX-4	Primary	6/13/2023	14	85,000	970 L1
TTU-EX-4	Primary	9/7/2023	12	91,000	742

TABLE 5:
HISTORIC 1,4-DIOXANE, PERCHLORATE, AND TCE CONCENTRATIONS
FORMER THERMAL TREATMENT UNIT
NAMMO DEFENSE SYSTEMS INC.
AUGUST 2024

Geosyntec consultants

Location	Sample Type	Date Sampled	1,4-Dioxane	Perchlorate	Trichloroethene (TCE)
			µg/L		
Screening Level			**3.5**	**3.2**	**5**
TTU-EX-4	Primary	9/7/2023	20	90,000	698
TTU-EX-4	Primary	11/18/2023	9.8	81,000	673
TTU-EX-4	Primary	2/12/2024	15.9	85,600	588
TTU-EX-4	Primary	5/20/2024	15.5	88,300	677
TTU-EX-5	Primary	3/13/2020	< 0.476	289 J	0.929 J
TTU-EX-5	Duplicate	3/13/2020	< 0.492	158 J	0.775 J
TTU-EX-5	Primary	6/17/2020	< 3.00	3.31 J	0.456 J
TTU-EX-5	Primary	7/20/2020	< 3.00	< 4.00	0.562 J
TTU-EX-5	Duplicate	7/20/2020	< 3.00	< 4.00	0.637 J
TTU-EX-5	Primary	12/2/2020	< 3.00	< 4.00	4.18 J
TTU-EX-5	Duplicate	12/2/2020	< 3.00	< 4.00	3.89 J
TTU-EX-5	Primary	3/30/2021	< 3.00	< 20.0 J	6.53
TTU-EX-5	Primary	5/5/2021	< 3.00	< 4.00	5.52
TTU-EX-5	Primary	7/29/2021	< 3.00	< 4.00	5.51
TTU-EX-5	Primary	11/17/2021	< 3.00	< 4.00	6.91
TTU-EX-5	Primary	3/21/2022	< 3.00	9.17	5.74
TTU-EX-5	Duplicate	3/21/2022	< 3.00	< 4.00	5.98
TTU-EX-5	Primary	6/13/2022	< 3.00	< 4.00	5.58
TTU-EX-5	Primary	9/8/2022	2.16 E4	< 4.00	4.96
TTU-EX-5	Duplicate	9/8/2022	< 3.00	< 4.00	5.06
TTU-EX-5	Primary	11/29/2022	3.40 B	1.44 J;P1	4.51
TTU-EX-5	Primary	2/23/2023	< 3.0	< 4.0	4.5
TTU-EX-5	Primary	6/12/2023	< 3.0	< 4.0	4.0 L1
TTU-EX-5	Primary	9/7/2023	< 3.0	< 4.0	3.5
TTU-EX-5	Primary	11/17/2023	< 3.0	< 4.0	3.7
TTU-EX-5	Primary	2/13/2024	9.87	< 4.00	3.57
TTU-EX-5	Duplicate	2/13/2024	< 3.00	< 4.00	3.08
TTU-EX-5	Primary	5/20/2024	< 3.00	< 4.00	3.00 J

Notes:

µg/L - micrograms per liter

'-- No sample collected

< - Concentration is below laboratory reporting limits

V = The sample concentration is too high to evalulate 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

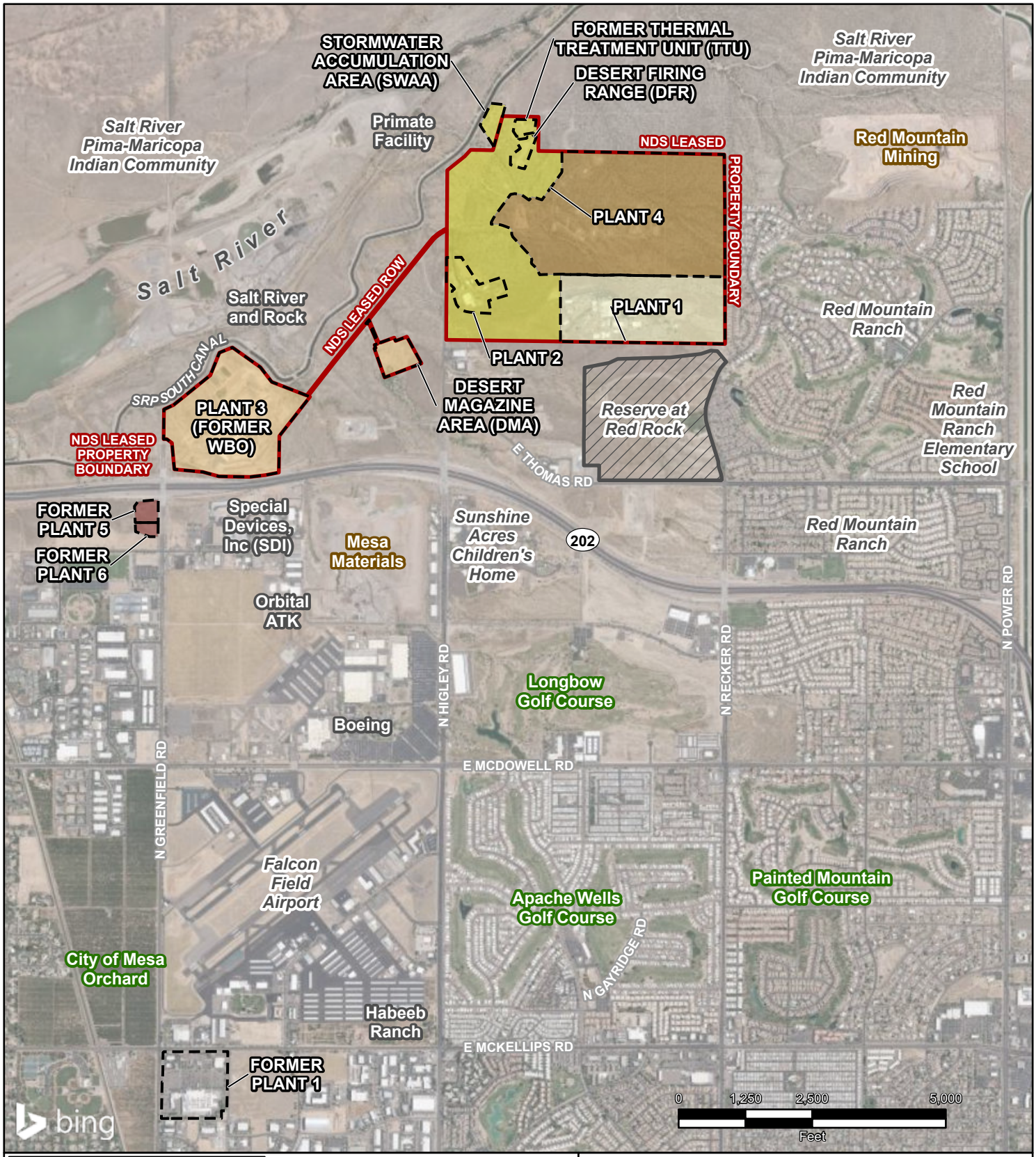
J4 = The associarred batch QC was outside the established quality control range for accuracy

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



- OPERABLE UNIT 1 (OU-1)
- OPERABLE UNIT 2 (OU-2)
- OPERABLE UNIT 3 (OU-3)
- OPERABLE UNIT 4 (OU-4)
- OPERABLE UNIT 5 (OU-5)

NDS: Nammo Defense Systems
ROW: Right-of-Way
SRP: Salt River Project
WBO: Water Bore-Out

N

Site Location

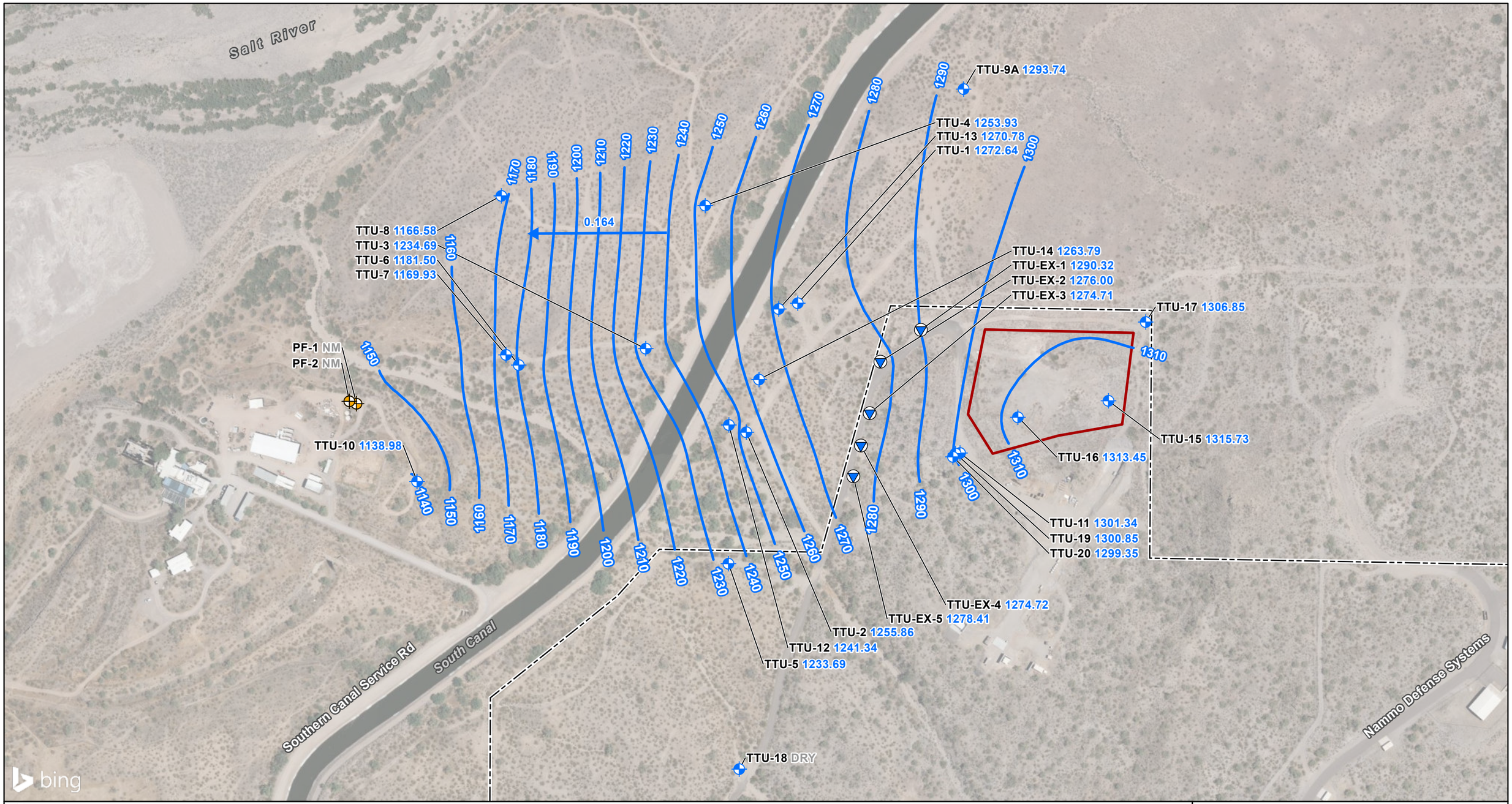
Former Thermal Treatment Unit (TTU)
Nammo Defense Systems
Mesa, Arizona

Geosyntec consultants

Phoenix | August 2024

Figure 1

\\az-ctxfs-t3\SDC\PRJ\SP0101_Nammo\PROJECT\NDS_2024Q2_3.2.2\TTU\NDS_TTU_2024Q2.aprx 8/9/2024 Matthew.Murchison



- GROUNDWATER EXTRACTION WELL
- GROUNDWATER MONITORING WELL
- PRIMATE FACILITY WELL
- GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL = 10 FEET)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW AND GRADIENT (FEET PER FOOT)
- NDS LEASED PROPERTY BOUNDARY WITH SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
- FORMER TTU BOUNDARY

- Groundwater elevations were measured on 5/20/2024 and 5/21/2024

NM: Not Measured

LOCATION ID
TTU-16 1313.45
GROUNDWATER ELEVATION
(feet above mean sea level)

N

0 120 240 480
Feet

Groundwater Elevations- May 2024

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

Geosyntec consultants

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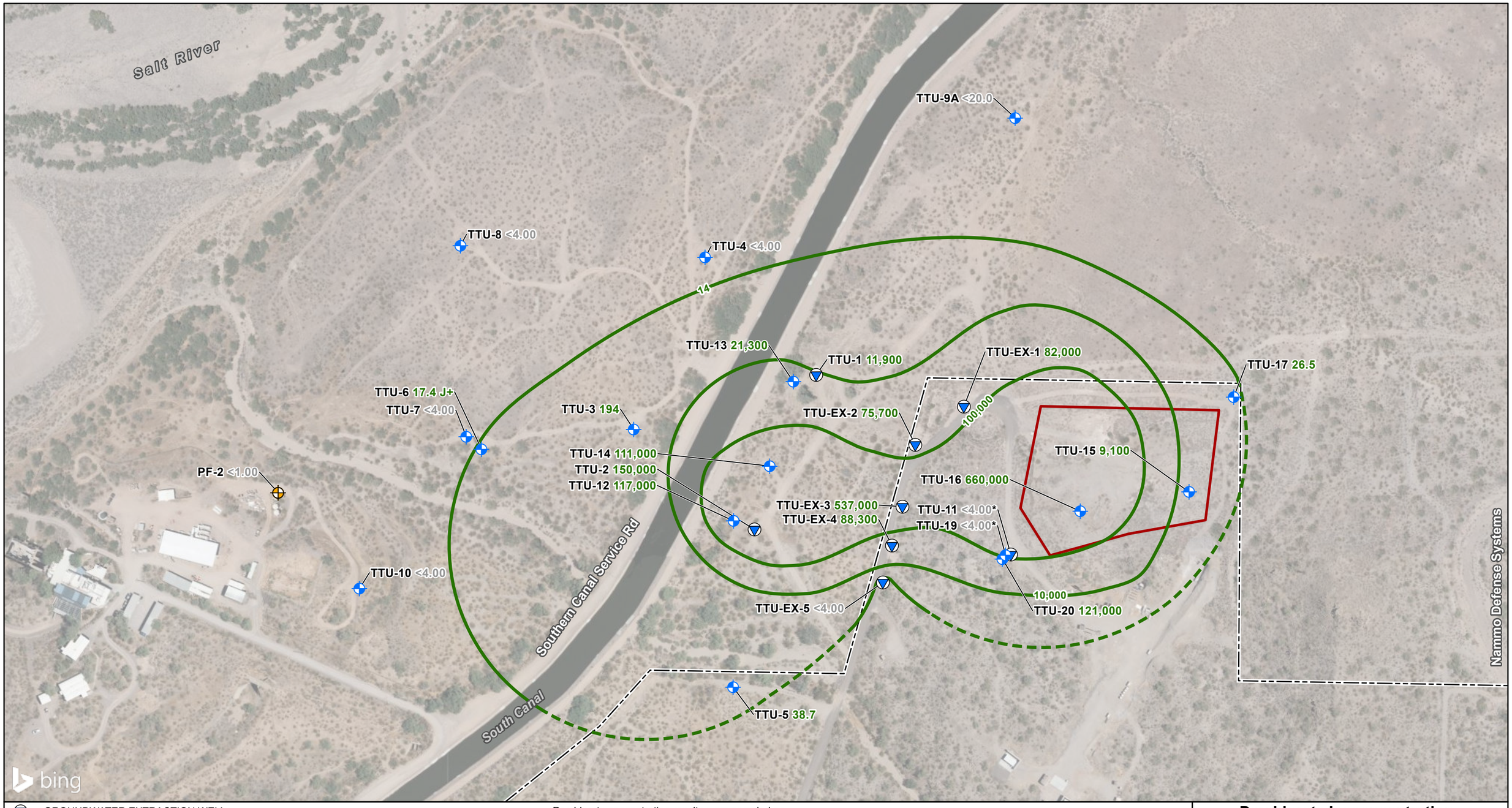
Figure 2

\\az-ctxfs-t3\SDC\PRJ\SP0101_Nammo\PROJECT\NDS_2024Q2_3.2.2\TTU\NDS_TTU_2024Q2.aprx\NDS_TTU_2024Q2_Fig2_GWE 8/9/2024 4:59 PM Matthew.Murchison



GROUNDWATER EXTRACTION WELL
GROUNDWATER MONITORING WELL
PRIMATE FACILITY WELL
PERCHLORATE ISOCONCENTRATION (µg/L)
PERCHLORATE ISOCONCENTRATION, INFERRED (µg/L)
NDS LEASED PROPERTY BOUNDARY WITH SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
FORMER TTU BOUNDARY

- Perchlorate concentration results were sampled on 5/20/2024 and 5/21/2024
- <4.00 indicates a result not detected above the minimum laboratory reporting limit
- Arizona Health Based Guidance Level for Perchlorate is 14 µg/l.
- TTU-11 and TTU-19 are not used for contouring.

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
J+: Same description as J, with a potential positive bias
µg/L: micrograms per liter

LOCATION ID
TTU-1 11,900
PERCHLORATE CONCENTRATION (µg/L)

N

0 100 200 400
Feet

Perchlorate Isoconcentration - May 2024

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

Geosyntec consultants

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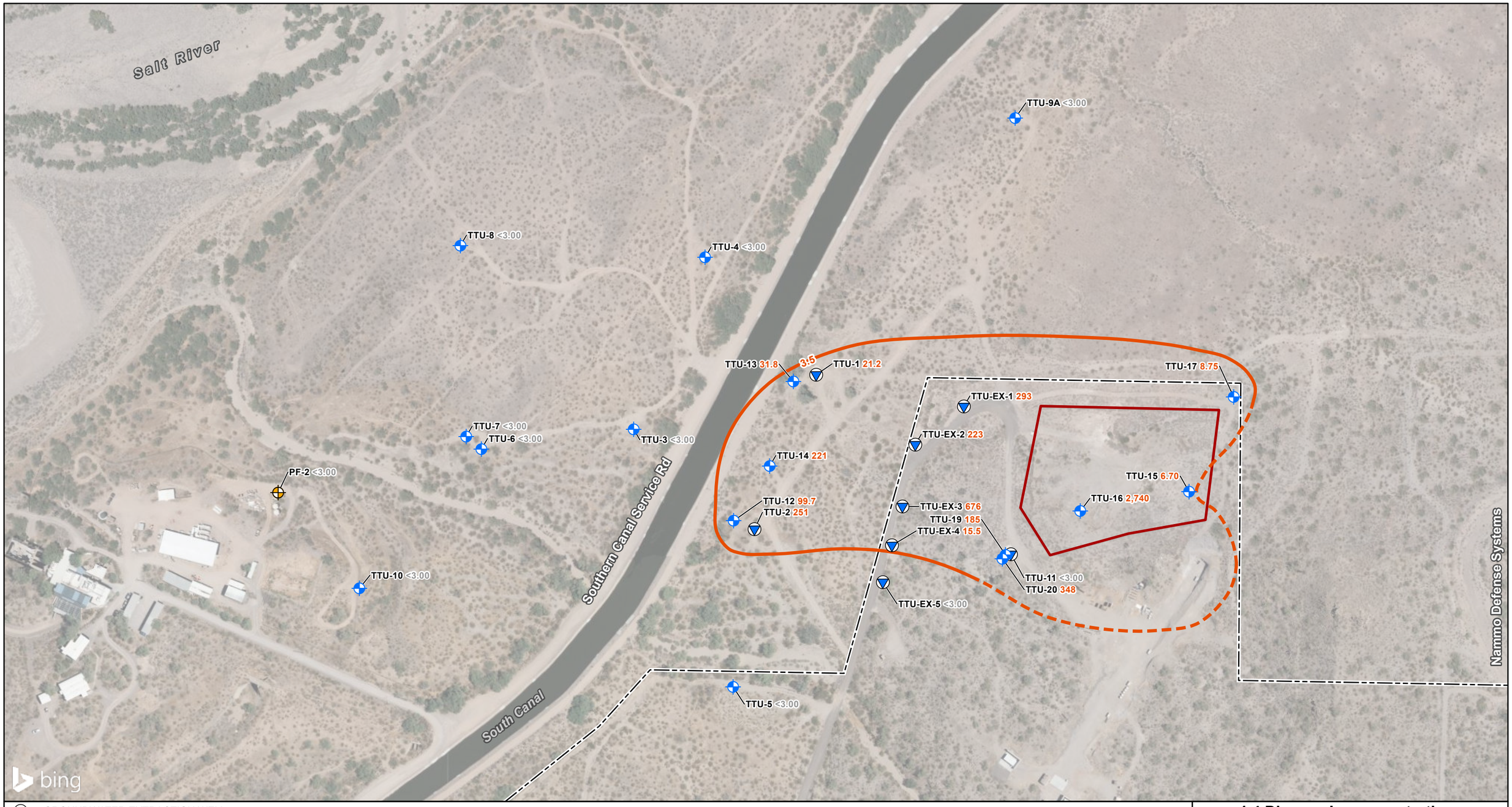
Figure 3

\\az-ctxfs-t3\SDC\PRJ\SP0101_Nammo\PROJECT\NDS_2024Q2_3.2.2\TTU\NDS_TTU_2024Q2.aprx\NDS_TTU_2024Q2_Fig3_Perchlorate 8/9/2024 5:29 PM Matthew.Murchison



GROUNDWATER EXTRACTION WELL
GROUNDWATER MONITORING WELL
PRIMATE FACILITY WELL
1,4 DIOXANE ISOCONCENTRATION (µg/L)
1,4 DIOXANE ISOCONCENTRATION, INFERRED (µg/L)
NDS LEASED PROPERTY BOUNDARY WITH SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
FORMER TTU BOUNDARY

- 1,4 Dioxane concentration results were sampled on 5/20/2024 and 5/21/2024
- <3.00 indicates a result not detected above the minimum laboratory reporting limit
- Interim Screening Level for 1,4 Dioxane is 3.5 µg/l.

µg/L: micrograms per liter

LOCATION ID
TTU-1 21.2
1,4 DIOXANE CONCENTRATION (µg/L)

N

0 100 200 400
Feet

1,4 Dioxane Isoconcentration - May 2024

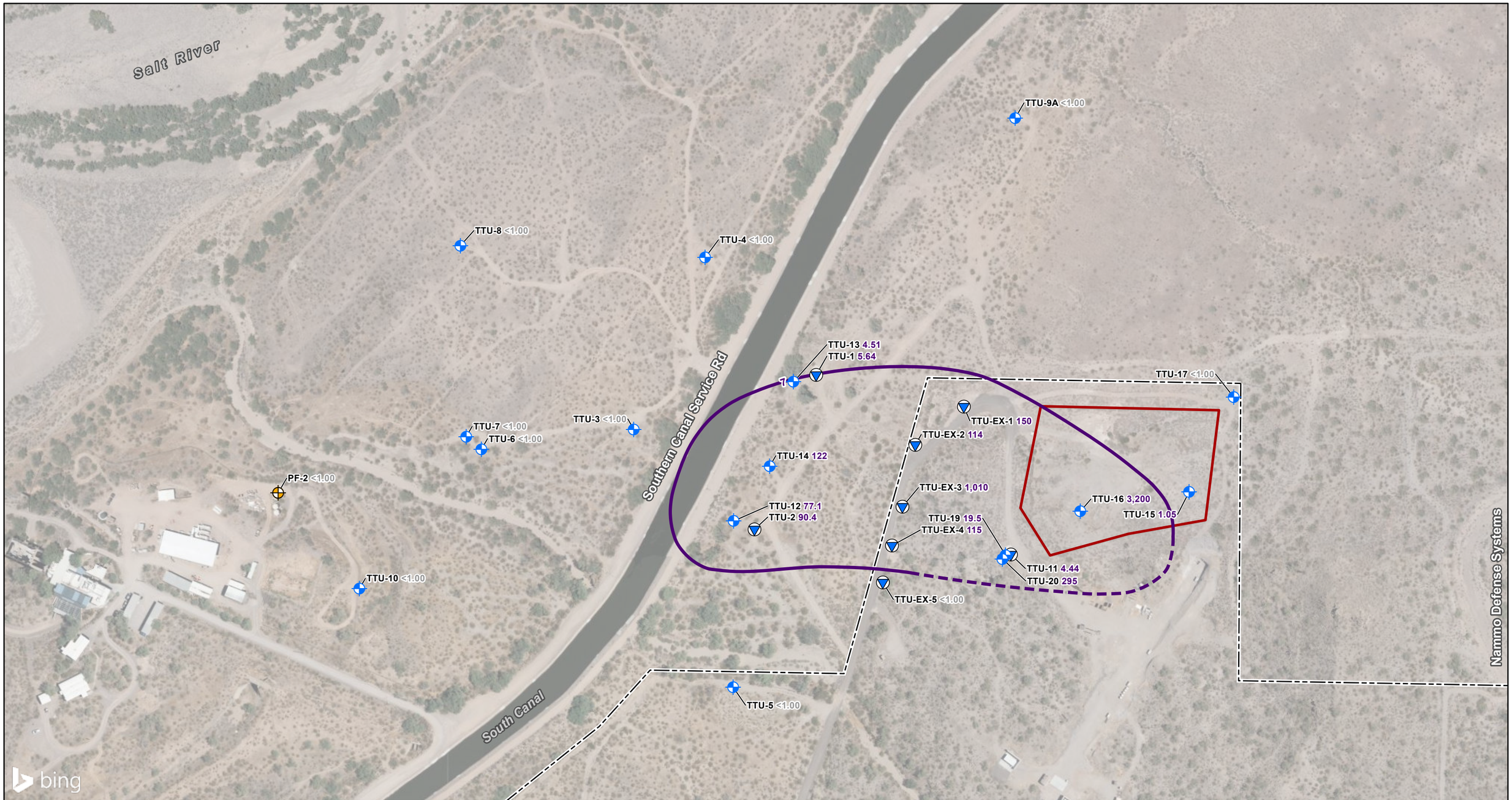
Former Thermal Treatment Unit (TTU)
Nammo Defense Systems
Mesa, Arizona

Geosyntec consultants

Phoenix | August 2024

Figure 4

\\az-ctxfs-t3\SDC\PRJ\SP0101_Nammo\PROJECT\NDS_2024Q2_3.2.2\TTU\NDS_TTU_2024Q2.aprx\NDS_TTU_2024Q2_Fig4_1,4D 8/9/2024 5:29 PM Matthew.Murchison



GROUNDWATER EXTRACTION WELL
GROUNDWATER MONITORING WELL
PRIMATE FACILITY WELL
1,1 DCE ISOCONCENTRATION (µg/L)
1,1 DCE ISOCONCENTRATION, INFERRED (µg/L)
NDS LEASED PROPERTY BOUNDARY WITH SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
FORMER TTU BOUNDARY

- 1,1-Dichloroethene concentration results were sampled on 5/20/2024 and 5/21/2024
- <1.00 indicates a result not detected above the minimum laboratory reporting limit
- Arizona Health Based Guidance Level for 1,1-Dichloroethene is 7 µg/l.

DCE: Dichloroethene
µg/L: micrograms per liter

LOCATION ID
TTU-1 5.64
1,1 DCE CONCENTRATION (µg/L)

N

0 100 200 400
Feet

1,1-Dichloroethene Isoconcentration - May 2024

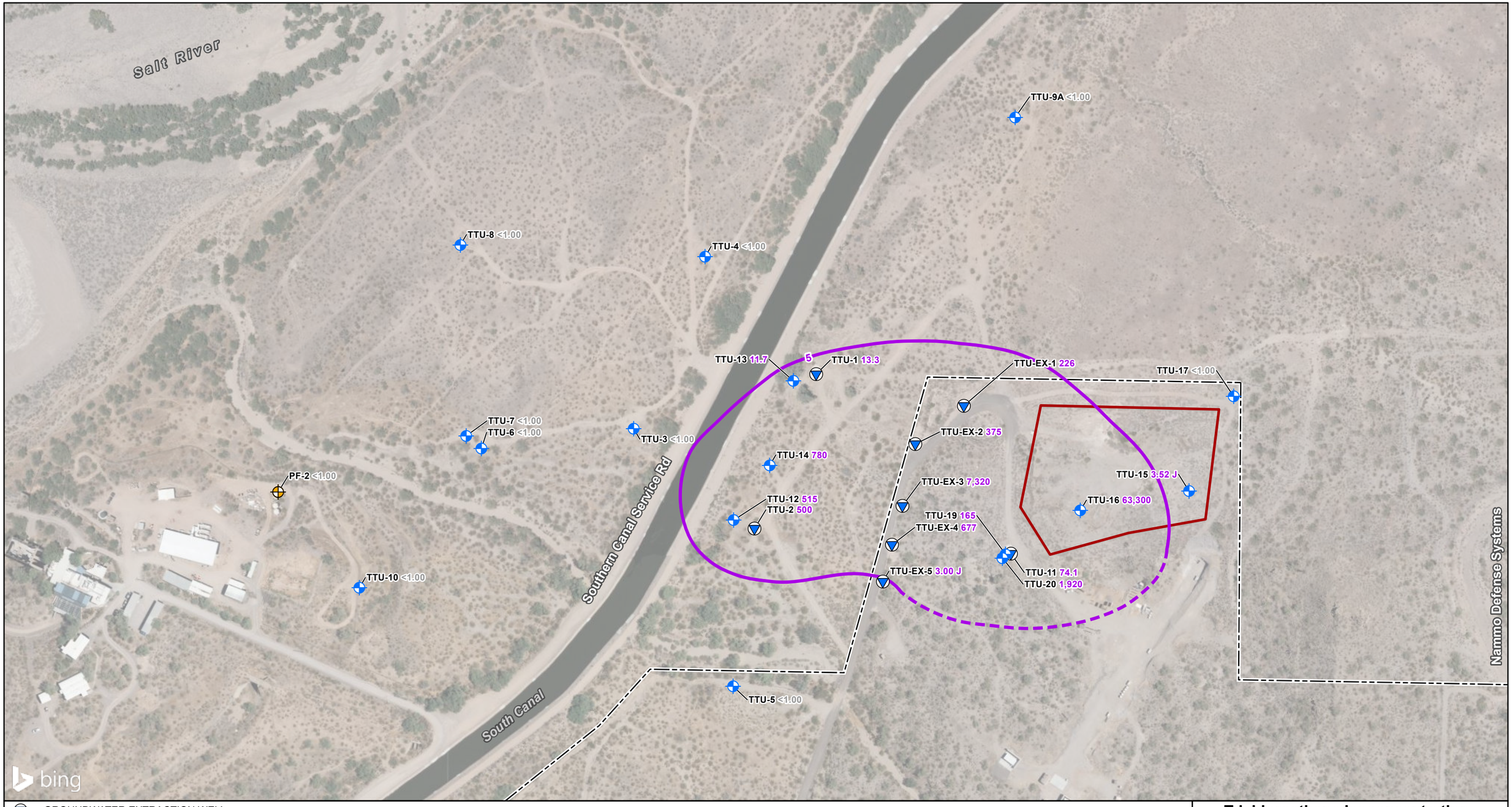
Former Thermal Treatment Unit (TTU)
Nammo Defense Systems
Mesa, Arizona

Geosyntec consultants

Phoenix | August 2024

Figure 5

\\az-ctxfs-t3\SDC\PRJ\SP0101_Nammo\PROJECT\NDS_2024Q2_3.2.2\TTU\NDS_TTU_2024Q2.aprx\NDS_TTU_2024Q2_Fig5_1,1DCE1 8/9/2024 5:29 PM Matthew.Murchison



GROUNDWATER EXTRACTION WELL
GROUNDWATER MONITORING WELL
PRIMATE FACILITY WELL
TCE ISOCONCENTRATION (µg/L)
TCE ISOCONCENTRATION, INFERRED (µg/L)
NDS LEASED PROPERTY BOUNDARY WITH SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
FORMER TTU BOUNDARY

- Trichloroethene concentration results were sampled on 5/20/2024 and 5/21/2024
- <1.00 indicates a result not detected above the minimum laboratory reporting limit
- Arizona Health Based Guidance Level for Trichloroethene is 5 µg/l.

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
TCE: Trichloroethene
µg/L: micrograms per liter

LOCATION ID
TTU-1 13.3
TCE CONCENTRATION (µg/L)

N

0 100 200 400
Feet

Trichloroethene Isoconcentration - May 2024

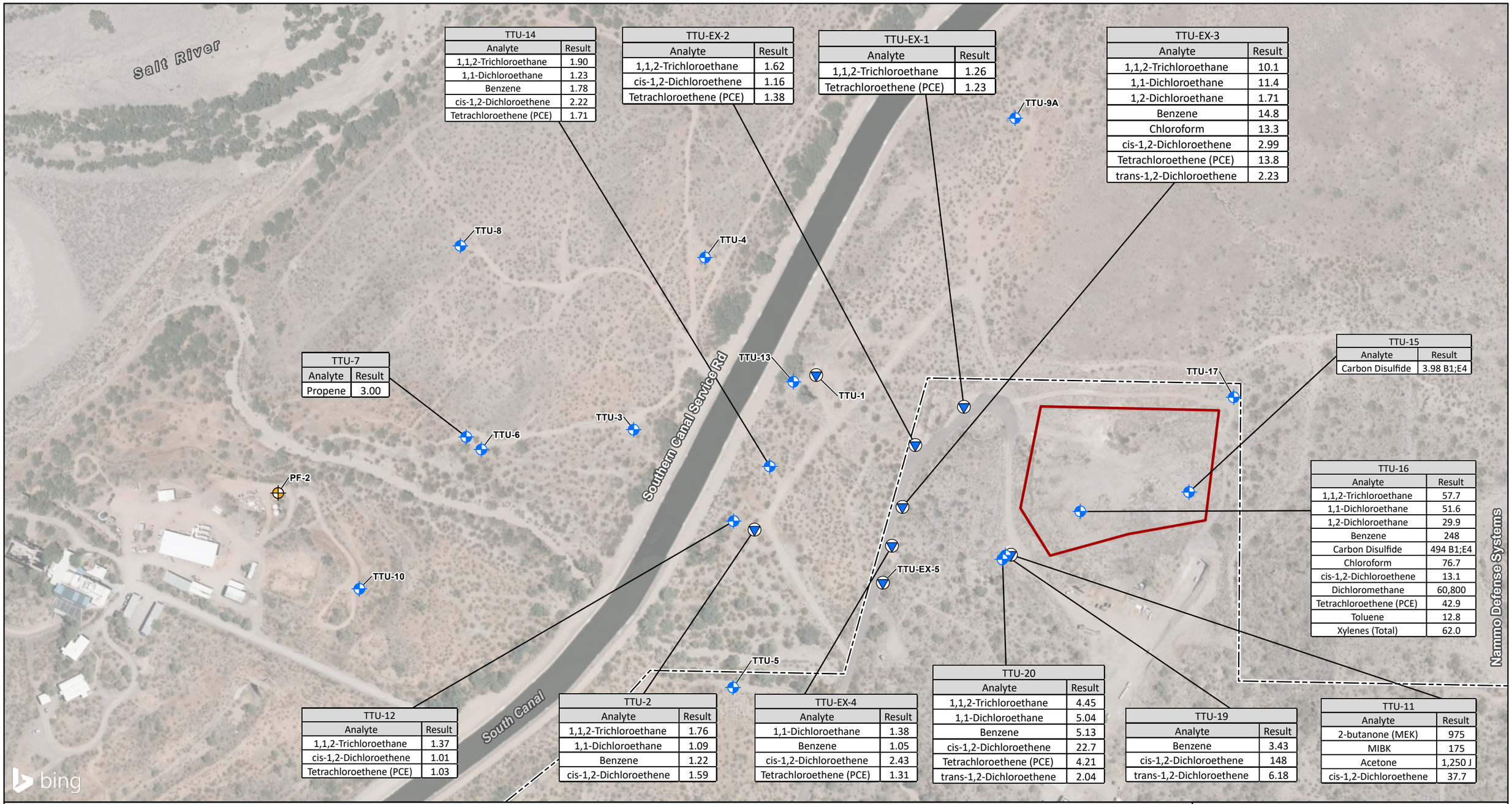
Former Thermal Treatment Unit (TTU)
Nammo Defense Systems
Mesa, Arizona

Geosyntec consultants

Phoenix | August 2024

Figure 6

\\az-ctxfs-t3\SDC\PRJ\SP0101_Nammo\PROJECT\NDS_2024Q2_3.2.2\TTU\NDS_TTU_2024Q2.aprx\NDS_TTU_2024Q2_Fig6_TCE 8/9/2024 5:29 PM Matthew.Murchison



TTU-14	
Analyte	Result
1,1,2-Trichloroethane	1.90
1,1-Dichloroethane	1.23
Benzene	1.78
cis-1,2-Dichloroethene	2.22
Tetrachloroethene (PCE)	1.71

TTU-EX-2	
Analyte	Result
1,1,2-Trichloroethane	1.62
cis-1,2-Dichloroethene	1.16
Tetrachloroethene (PCE)	1.38

TTU-EX-1	
Analyte	Result
1,1,2-Trichloroethane	1.26
Tetrachloroethene (PCE)	1.23

TTU-EX-3	
Analyte	Result
1,1,2-Trichloroethane	10.1
1,1-Dichloroethane	11.4
1,2-Dichloroethane	1.71
Benzene	14.8
Chloroform	13.3
cis-1,2-Dichloroethene	2.99
Tetrachloroethene (PCE)	13.8
trans-1,2-Dichloroethene	2.23

TTU-7	
Analyte	Result
Propene	3.00

TTU-15	
Analyte	Result
Carbon Disulfide	3.98 B1;E4

TTU-16	
Analyte	Result
1,1,2-Trichloroethane	57.7
1,1-Dichloroethane	51.6
1,2-Dichloroethane	29.9
Benzene	248
Carbon Disulfide	494 B1;E4
Chloroform	76.7
cis-1,2-Dichloroethene	13.1
Dichloromethane	60,800
Tetrachloroethene (PCE)	42.9
Toluene	12.8
Xylenes (Total)	62.0

TTU-12	
Analyte	Result
1,1,2-Trichloroethane	1.37
cis-1,2-Dichloroethene	1.01
Tetrachloroethene (PCE)	1.03

TTU-2	
Analyte	Result
1,1,2-Trichloroethane	1.76
1,1-Dichloroethane	1.09
Benzene	1.22
cis-1,2-Dichloroethene	1.59

TTU-EX-4	
Analyte	Result
1,1-Dichloroethane	1.38
Benzene	1.05
cis-1,2-Dichloroethene	2.43
Tetrachloroethene (PCE)	1.31

TTU-20	
Analyte	Result
1,1,2-Trichloroethane	4.45
1,1-Dichloroethane	5.04
Benzene	5.13
cis-1,2-Dichloroethene	22.7
Tetrachloroethene (PCE)	4.21
trans-1,2-Dichloroethene	2.04

TTU-19	
Analyte	Result
Benzene	3.43
cis-1,2-Dichloroethene	148
trans-1,2-Dichloroethene	6.18

TTU-11	
Analyte	Result
2-butanone (MEK)	975
MIBK	175
Acetone	1,250 J
cis-1,2-Dichloroethene	37.7

GROUNDWATER EXTRACTION WELL
GROUNDWATER MONITORING WELL
PRIMATE FACILITY WELL
NDS LEASED PROPERTY BOUNDARY WITH SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
FORMER TTU BOUNDARY

- All VOC concentrations were sampled on 5/20/2024 and 5/21/2024, except for Carbon Disulfide at TTU-15 and TTU-16 was sampled on 4/9/2024
- All callout table results are reported in µg/L

VOC: Volatile Organic Compound
µg/L: micrograms per liter

N
0 100 200 400
Feet

Other VOC Concentrations - May 2024

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

Geosyntec consultants

Phoenix | August 2024

Figure 7

\\az-ctxfs-t3\SDC\PRJ\SP0101_Nammo\PROJECT\NDS_2024Q2_3.2.2\TTU\NDS_TTU_2024Q2.aprx\NDS_TTU_2024Q2_Fig7_VOC 8/9/2024 5:29 PM Matthew.Murchison

ATTACHMENT 1

FIELD NOTES

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-1	55-914440	6/6/2012	75	30 - 70	1312.73	4" PVC	33 29'59.1382"	-111 42'56.2704"	50	43.07	Date/Time: 5/21/24 1007 DTW: 40.09

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:
	TTU-1-GW-50-202405 21	5/21/24 1027	27.5	1066	3.42	7.23	4.9	clear

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: ~~Yes~~ / No Size of sleeve: N/A	Samples Packed : Yes / No

Notes	Please make a note of the well condition and any issues that arose during sampling. Start: 1009					
		1013	27.6°C	1102	1.51	7.08	15.4
	②	1016	26.7°C	1046	1.70	7.05	26.0
	③	1019	27.9°C	1057	1.99	7.12	7.1

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-2	N/A	10/17/2013	185	49.4 - 179.6	1314.44	4" PVC	33 29'55.8472"	-111 42'57.8480"	114.5	64.03	Date/Time: 5/21/24 0918 DTW: 58.58'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:
	TTU-2-GW-114-202405 21	5/21/24 0955	28.0	3358	1.15	6.85	34.0	clear

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: Yes / (No) Size of sleeve: N/A	Samples Packed : (Yes) / No

Notes	Please make a note of the well condition and any issues that arose during sampling. Start: 0924					
	Time	Temp	Cond.	DO	pH	ORP
①	0929	27.7°C	3261	1.38	6.79	134.4
②	0933	27.2°C	3327	1.26	6.81	82.2
③	0937	27.1°C	3332	0.92	6.80	55.2
④	0941	27.1°C	3323	0.88	6.80	52.5
⑤	0946	27.4°C	3353	0.90	6.82	51.0

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	**TTU-3**	N/A	10/18/2013	143.6	78.1 - 138.1	1308.03	4" PVC	33 29'57.9845"	-111 43'00.9143"	108	92.07	Date/Time: 5/21/24 1258 DTW: 73.34'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:
	TTU-3-GW-108-202405 21	5/21/24 1304	33.1	1542	4.41	7.20	-16.4	clear

Checklist				
Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No	Size of sleeve: HS-2-1L

Notes	Samples Packed : (Yes) / No
Please make a note of the well condition and any issues that arose during sampling. **Collect MS/MSD**	

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	**TTU-4**	N/A	10/25/2013	104.9	39.5 - 99.5	1305.12	4" PVC	33 30'01.6455"	-111 42'59.0898"	57	52.35	Date/Time: 5/21/24 1241 DTW: 51.19'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:
	TTU-4-GW-57-202405 21	5/21/24 1247	29.5	2174	2.4	7.49	-15.5	clear

Checklist				
Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No	Size of sleeve: HS-2-1L

Notes	Samples Packed : (Yes) / No
Please make a note of the well condition and any issues that arose during sampling.	

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-5	N/A	9/20/2014	169.5	59.5 - 164.5	1314.93	4" PVC	33 29'52.4820"	-111 42'58.3994"	110	81.76	Date/Time: 5/20/24 0918 DTW: 81.24'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:
	TTU-5-GW-110-202405 20	5/20/24 0928	26.6	602	2.67	7.24	62.5	clear

Checklist					
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed (Yes) / No

Notes	
	Please make a note of the well condition and any issues that arose during sampling. • Poly line instead of tether.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-6	N/A	10/7/2014	180	110 - 175	1300.84	4" PVC	33 29'57.5698"	-111 43'04.7900"	143	123.85	Date/Time: 5/21/24 1349 DTW: 119.34'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:
	TTU-6-GW-143-202405 21	5/21/24 1358	28.9	2941	1.56	7.13	-26.8	clear, some floating sediment

Checklist					
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed (Yes) / No

Notes	
	Please make a note of the well condition and any issues that arose during sampling.

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-7	N/A	10/8/2014	410	Open 280 - 410	1301.84	8.5" Steel	33 29'57.8355"	-111 43'05.1771"	345	131.85	Date/Time: 5/21/24 1328 DTW: 131.91'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-7-GW-345-202405 21	5/21/24 1338	30.0	3776	0.83	6.90	-41.8	grey; floating bubbles throughout; 1" of settled sediment; strong odor

Checklist				
Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-Z-1L	Samples Packed: (Yes) / No

Notes	Please make a note of the well condition and any issues that arose during sampling.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-8	N/A	4/18/2016	190	135 - 185	1310.23	4" PVC	33 30'01.9086"	-111 43'05.3138"	164	143.08	Date/Time: 5/21/24 1408 DTW: 143.65'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-8-GW-164-202405 21	5/21/24 1416	29.6	3198	0.58	6.94	-31.9	clear

Checklist				
Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-Z-1L	Samples Packed: (Yes) / No

Notes	Please make a note of the well condition and any issues that arose during sampling.

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TTU Groundwater Monitoring Checklist

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-9A	N/A	6/16/2016	104	24 - 99	1318.04	4" PVC	33 30'04.6089"	-111 42'51.1919"	61	27.35	Date/Time: 5/20/24 1526 DTW: 24.30'

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
Field Parameters	TTU-9A-GW-61-20240520 TTU-9A-GW-61-20240520 -DUP	5/20/24 1534	27.9	1696	3.36	7.51	34.5	clear

Checklist	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L Samples Packed (Yes) / No

Notes

Please make a note of the well condition and any issues that arose during sampling.

Collect duplicate on Perchlorate, VOCs, and 1,4 Dioxane

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-10	N/A	4/18/2016	185	115 - 180	1302.42	4" PVC	33 29'54.5995"	-111 43'07.9037"	172	165.18	Date/Time: 5/21/24 1214 DTW: 163.44

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
Field Parameters	TTU-10-GW-172-20240521	5/21/24 1225	29.4	1450	3.63	7.35	-17.9	clear

Checklist	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L Samples Packed (Yes) / No

Notes

Please make a note of the well condition and any issues that arose during sampling.

CONFIRM HYDRASLEEVE DEPTH - SAP SET DEPTH IS 147, PINYON NOTED 172 IN 4Q 2023.

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TTU Groundwater Monitoring Checklist

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-11	55-918534	9/11/2015	94	24-89	1339.2	4" PVC	33 29'55.28"	-111 42'51.47"	73	34.33	Date/Time: 5/20/24 1358 DTW: 37.86'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-11-GW-73-20240520	5/20/24 1403	25.1	2580	0.72	6.63	-120.4	cloudy top 75%, White/cloudy bottom 25%, floating bio, 2" of settled sediment

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: None	HydraSleeve Reset: (Yes) / No Size of sleeve: ~~HS-2-1L~~	Samples Packed (Yes) / No

Notes	Please make a note of the well condition and any issues that arose during sampling.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-12	N/A	7/31/2018	180	Open to 180	1312.21	5"	33°29'56.0275"	-111°42'58.3788"	82	75.62	Date/Time: 5/20/24 1422 DTW: 70.87'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-12-GW-82-20240520	5/20/24 1432	23.0	2974	3.36	6.80	54.3	clear, 1" of sediment

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: ~~HS-2-1L~~	Samples Packed : (Yes) / No

Notes	Please make a note of the well condition and any issues that arose during sampling.

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TTU Groundwater Monitoring Checklist

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-13	N/A	7/20/18	80	Open to 80	1310.79	5"	33 29'58.9926"	-111 42'56.8497"	51	43.27	Date/Time: 5/20/24 1506 DTW: 40.01'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-13-GW-51-202405 20	5/20/24 1515	27.4	1219	1.93	6.92	59.5	clear, roots throughout, 1/4" of sediment

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L Samples Packed : (Yes) / No

Notes
Please make a note of the well condition and any issues that arose during sampling.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-14	N/A	7/19/2018	100	Open to 100	1316.8	5"	33 29'57.1962"	-111 42'57.4555"	69	61.81	Date/Time: 5/20/24 1440 DTW: 53.01'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-14-GW-69-202405 20 TTU-14-GW-69-202405 20 -DUP	5/20/24 1453	24.6	2609	2.94	6.89	142.6	clear, 1" of settled sediment, slight odor

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L Samples Packed : (Yes) / No

Notes
Please make a note of the well condition and any issues that arose during sampling. **Collect duplicate on Perchlorate, VOCs, and 1,4 Dioxane**

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TTU Groundwater Monitoring Checklist

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	**TTU-15**	55-228014	1/25/2018	100	Open to 100	1350.85	Open Borehole (10")	33 29 56.78	-111 42 47.03	75	32.7	Date/Time: 5/20/24 1300 DTW: 35.12'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-15-GW-75-20240520	5/20/24 1310	26.7	2196	1.09	6.98	147.5	Clear, 1/4" sediment, slight odor

Checklist				
Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed: (Yes) / No

Notes	Please make a note of the well condition and any issues that arose during sampling.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	**TTU-16**	55-231730	1/23/2020	96.6*	Open	1338.554	8"	33°29'56.18415"	-111°42'49.59235"	80	24.67	Date/Time: 5/20/24 1318 DTW: 25.10'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-16-GW-80-20240520	5/20/24 1325	26.1	8539	0.58	6.17	199.1	brown floating sediment throughout, slight odor, brown/cloudy throughout

Checklist				
Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed: (Yes) / No

Notes	Please make a note of the well condition and any issues that arose during sampling.

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TTU Groundwater Monitoring Checklist

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-17	55-231735	1/22/2020	102*	Open to 102	1347.489	8"	33°29'58.61092"	-111°42'45.68575"	80	39.98	Date/Time: 5/20/24 1212 DTW: 40.64'

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
Field Parameters	TTU-17-GW-80-20240520	5/20/24 1225	29.5	963	0.97	7.04	-9.5	clear top 80%, cloudy bottom 25%, 3/4" of sediment

Checklist	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L Samples Packed : (Yes) / No
Notes	Please make a note of the well condition and any issues that arose during sampling.			

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-18	55-231737	1/21/2020	104.5*	Open	1320.248	8"	33°29'47.20278"	-111°42'58.10223"	none	Dry	Date/Time: 5/20/24 0902 DTW: Dry

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
Field Parameters	TTU-18-GW- -2024							

Checklist	Depth to Water: Yes / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: Yes / No Size of sleeve: _____ Samples Packed : Yes / No
Notes	Please make a note of the well condition and any issues that arose during sampling.			

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TTU Groundwater Monitoring Checklist

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-19	55-232969	9/24/2020	95	25-90	1336.81	4"	33 29' 55.25498"	-111 42' 51.49762"	73	32.56	Date/Time: 5/20/24 1343 DTW: 35.96'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-19-GW-73-202405 20	5/20/24 1355	24.7	2160	0.65	6.51	-111.1	cloudy top 50%, Black/cloudy bottom 50%, Strong odor

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate, VOCs, 1,4 Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed (Yes) / No

Notes: Please make a note of the well condition and any issues that arose during sampling.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-20	55-232968	9/24/2020	95	25-90	1336.9	4"	33 29' 55.17373"	-111 42' 51.57575	73	33.65	Date/Time: 5/20/24 1337 DTW: 37.53'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-20-GW-73-202405 ~~20~~ NL 21	~~5/20/24~~ NL 5/21/24 0900	27.8	2351	3.48	6.84	37.4	clear, with slight yellow tint

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate, VOCs, 1,4 Dioxane	HydraSleeve Reset: ~~Yes~~ / No NL N/A Size of sleeve: ~~HS-2-1L~~ NL N/A	Samples Packed (Yes) / No

Notes: Please make a note of the well condition and any issues that arose during sampling.

	Temp	Cond.	DO	pH	ORP
Start: 0827					
First Reading: 0833	26.8°C	2372	2.17	6.92	75.3
Second Reading: 0838	26.9°C	2278	1.83	6.90	50.3
Third Reading: 0843	27.1°C	2115	2.06	6.90	40.4
Fourth Reading: 0849	27.2°C	2117	2.72	6.86	36.0
Fifth Reading: 0854	27.1°C	2130	3.03	6.86	34.2

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-EX-1	55-231733	1/29/2020	109*	Open	1321.694	8"	33°29'58.42103"	-111°42'52.55168"	69	29.27	Date/Time: 5/20/24 1146 DTW: 31.37'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-EX-1-GW-69-20240520	5/20/24 1154	28.6	2405	2.53	6.94	169.9	clear, 1/2" of sediment

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L Samples Packed : (Yes) / No

Notes	
	Please make a note of the well condition and any issues that arose during sampling.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-EX-2	55-231734	1/28/2020	110*	Open	1316.401	8"	33°29'57.60791"	-111°42'53.78896"	74	38.04	Date/Time: 5/20/24 1128 DTW: 40.40'

Field Parameters	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
	TTU-EX-2-GW-74-20240520	5/20/24 1135	27.8	2059	0.65	6.92	16.2	clear top 75%, cloudy bottom 25%, 1/2" of sediment

Checklist				
	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L Samples Packed : (Yes) / No

Notes	
	Please make a note of the well condition and any issues that arose during sampling.

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-EX-3	55-231731	1/24/2020	111*	Open	1316.85	8"	33°29'56.29009"	-111°42'54.11922"	76	40.18	Date/Time: 5/20/24 1059 DTW: 42.14'

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
Field Parameters	TTU-EX-3-GW-76-20240520 TTU-EX-3-GW-76-20240520 DUP	5/20/24 1112	29.8	5300	1.27	6.52	39.0	clear, 1.5" of sediment.

Checklist	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed : (Yes) / No

Notes

Please make a note of the well condition and any issues that arose during sampling.

Collect duplicate on Perchlorate, VOCs, and 1,4 Dioxane

- Poly line was removed. Sleeve re-set with tether.
- Lock not functioning. Will replace with a new one.

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-EX-4	55-231732	1/25/2020	112*	Open	1319.958	8"	33°29'55.46297"	-111°42'54.38840"	77	43.78	Date/Time: 5/20/24 1038 DTW: 45.24'

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
Field Parameters	TTU-EX-4-GW-77-20240520	5/20/24 1049	26.6	1903	1.01	6.79	200.1	clear. 1" of sediment

Checklist	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed : Yes / No

Notes

Please make a note of the well condition and any issues that arose during sampling.

- Poly line was removed. Sleeve re-set with tether.

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TTU Groundwater Monitoring Checklist

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	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-EX-5	55-231736	1/24/2020	112.4*	Open	1319.499	8"	33°29'54.67649"	-111°42'54.62111"	80	40.71	Date/Time: 5/20/24 0943 DTW: 41.09'

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	
Field Parameters	TTU-EX-5-GW-80-20240520	5/20/24 0952	28.3	1055	1.04	6.96	34.4	clear top 50%, cloudy/tan bottom 50%, 3/4" of sediment @ bottom

Checklist	Depth to Water: (Yes) / No	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate / VOCs / 1,4-Dioxane	HydraSleeve Reset: (Yes) / No Size of sleeve: HS-2-1L	Samples Packed: (Yes) / No
Notes	Please make a note of the well condition and any issues that arose during sampling. **Collect MS/MSD** • TD of 105.88.				

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	PF-2	N/A	3/27/2013	400	300-400	1296.35	6 5/8	33 29'56.6487"	-111 43'09.9629"	400	nm	Date/Time: DTW: N/A

	Sample ID:	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:
Field Parameters	PF-2-GW-400-20240521	5/21/24 1203	26.7	1305	3.70	7.18	-19.6	Clear

Checklist	Depth to Water: Yes / (No)	~~Transducer Downloaded: Yes / No~~	Sampled: Perchlorate (314.0), VOCs, 1,4 Dioxane	HydraSleeve Reset: Yes / (No) Size of sleeve: N/A	Samples Packed: (Yes) / No
Notes	Please make a note of the well condition and any issues that arose during sampling. **USE A WELL PURGE SAMPLING FORM - RECORD SAMPLED MEASUREMENT IN THE SPACE ABOVE** • 480-694-8774 - Jerry				

Geosyntec consultants

WELL DEVELOPMENT/ LOW FLOW SAMPLING LOG

Project Name: Nammo Defense Systems, Inc.
Project Number: SP0101GW24
Site: TTU

Date: 5/21/24
Weather: Sunny, Warm
Field Personnel: Nate Lamb, Ryan Ayala

Well Data
Well I.D.: PF- 2
GW Level before development (ft btoc): N / A
Field measured TD of well (ft btoc): N/A
Decontamination Method: N/A

Well Diameter (in.): 6 5/8-inch
GW Level after development (ft btoc): N/A
Well Screened Interval: 300-400
Casing Depth: 400
3x Well Volume ~500-gallons

Well Purging
Method/Equipment: Pump
pH/Cond/turb meter ID #:
Calibration info:
Water Column Length (ft): N/A
Start Purge/Pump: 1124

Company: N/A
Field Subcontractor: N/A
Total Volume Purged (gal):

Pump Depth (ft btoc)	Time	Pump Rate (gpm)	Depth to Water (ft btoc)	Cond. (µs/cm)	pH (pH Units)	Temp. (°C)	D.O. (mg/L)	ORP (mV)	Comments
400	1140	N/A	N/A	1340	7.27	28.6	3.54	-26.8	
"	1146	N/A	N/A	1307	7.15	25.5	3.60	-6.7	
"	1150	N/A	N/A	1303	7.23	25.6	3.45	-13.5	
"	1154	N/A	N/A	1297	7.20	25.2	3.47	-9.4	
Stabilization Parameters*				+/-3%	+/- 0.1	+/- 1	+/- 0.3	+/- 10	

* For 3 consecutive readings
** Values > 10 NTU, if three consecutive readings <10 NTU consider stable

Sample Date: 5/21/24
Sample ID: PF-2-GW-400-20240521
Sample Time: 1203

Depth to Water: N/A
Laboratory:

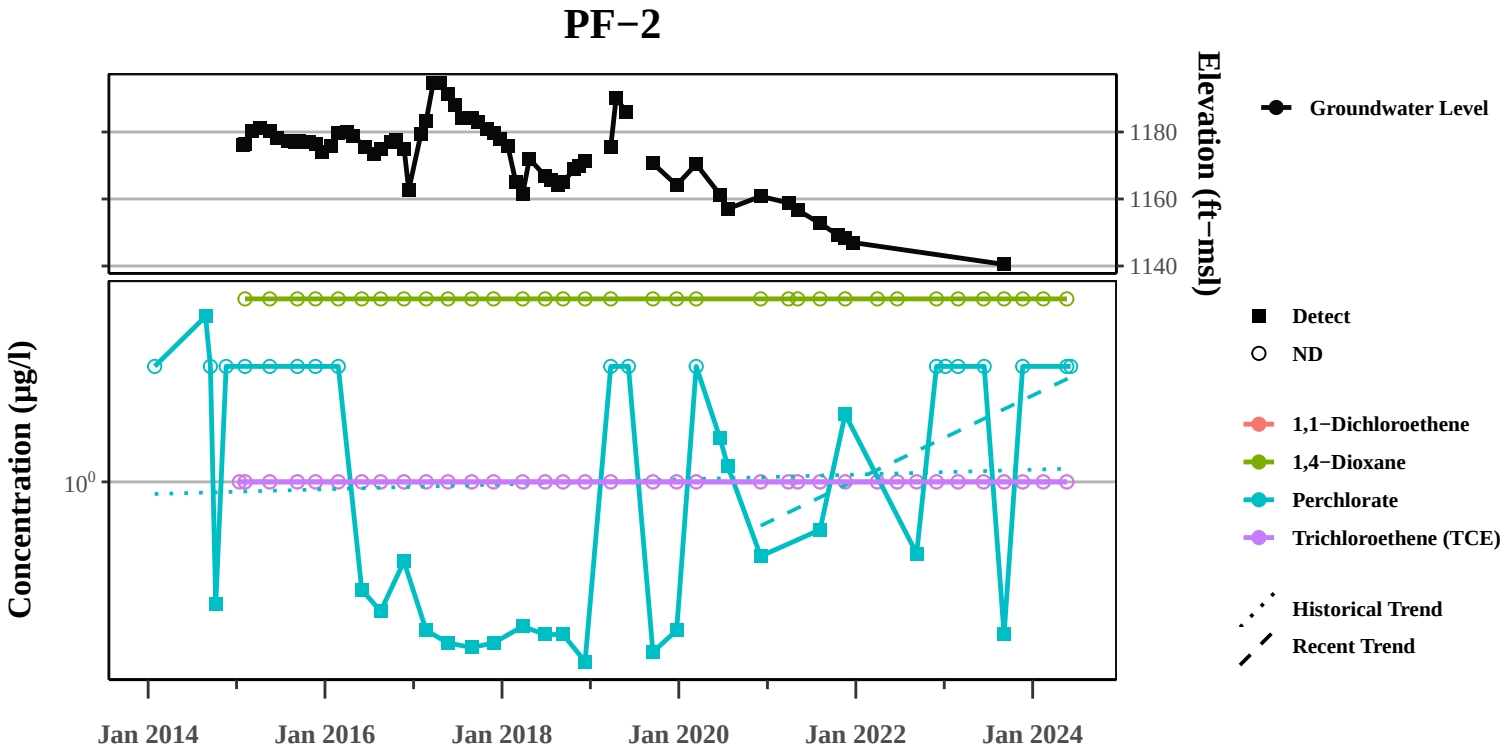
Volume	Container	Filtered	Preservative	Parameters

Purge Water Disposal:
Comments: Purge for 15 min and begin stabilization parameter collection

Field Personnel Signature:

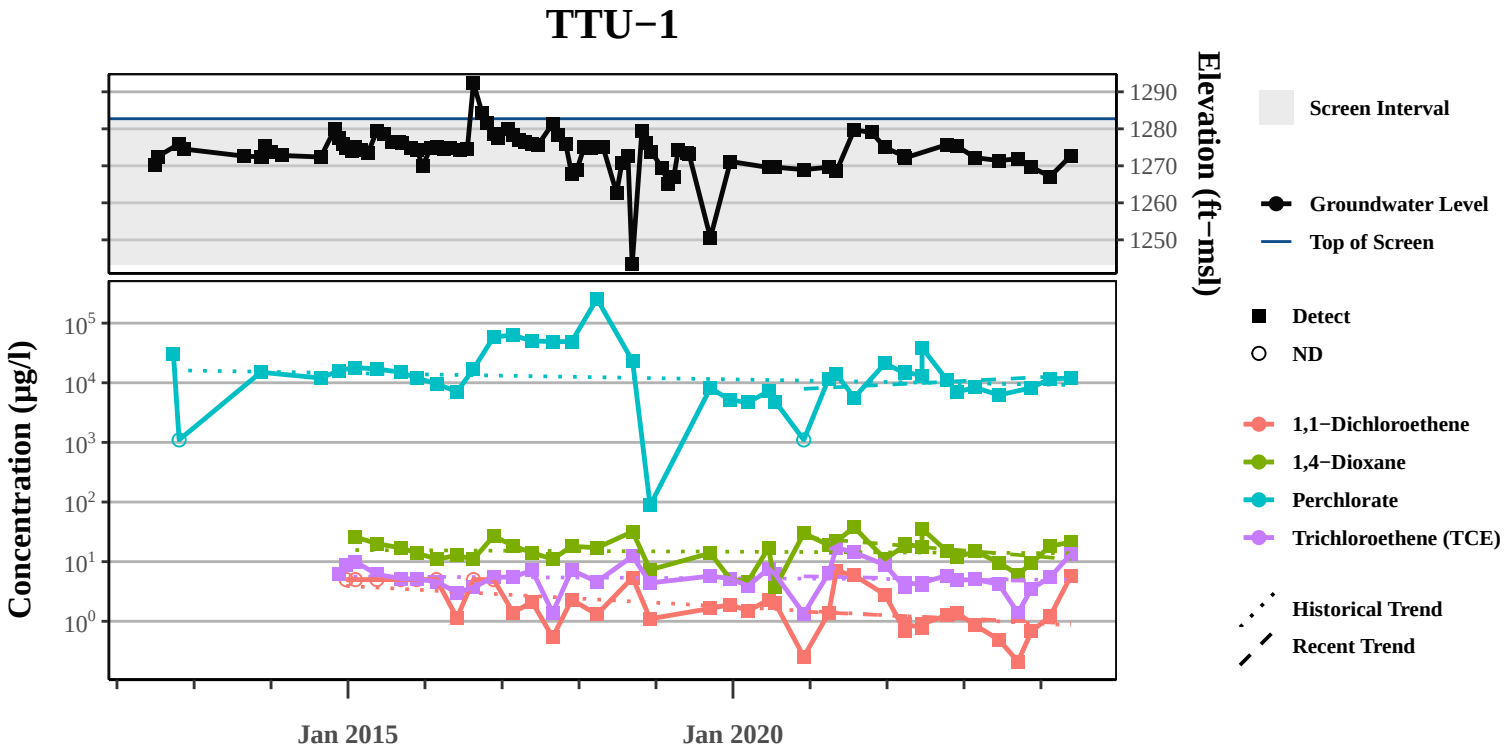
ATTACHMENT 2

MANN-KENDALL TREND ANALYSIS



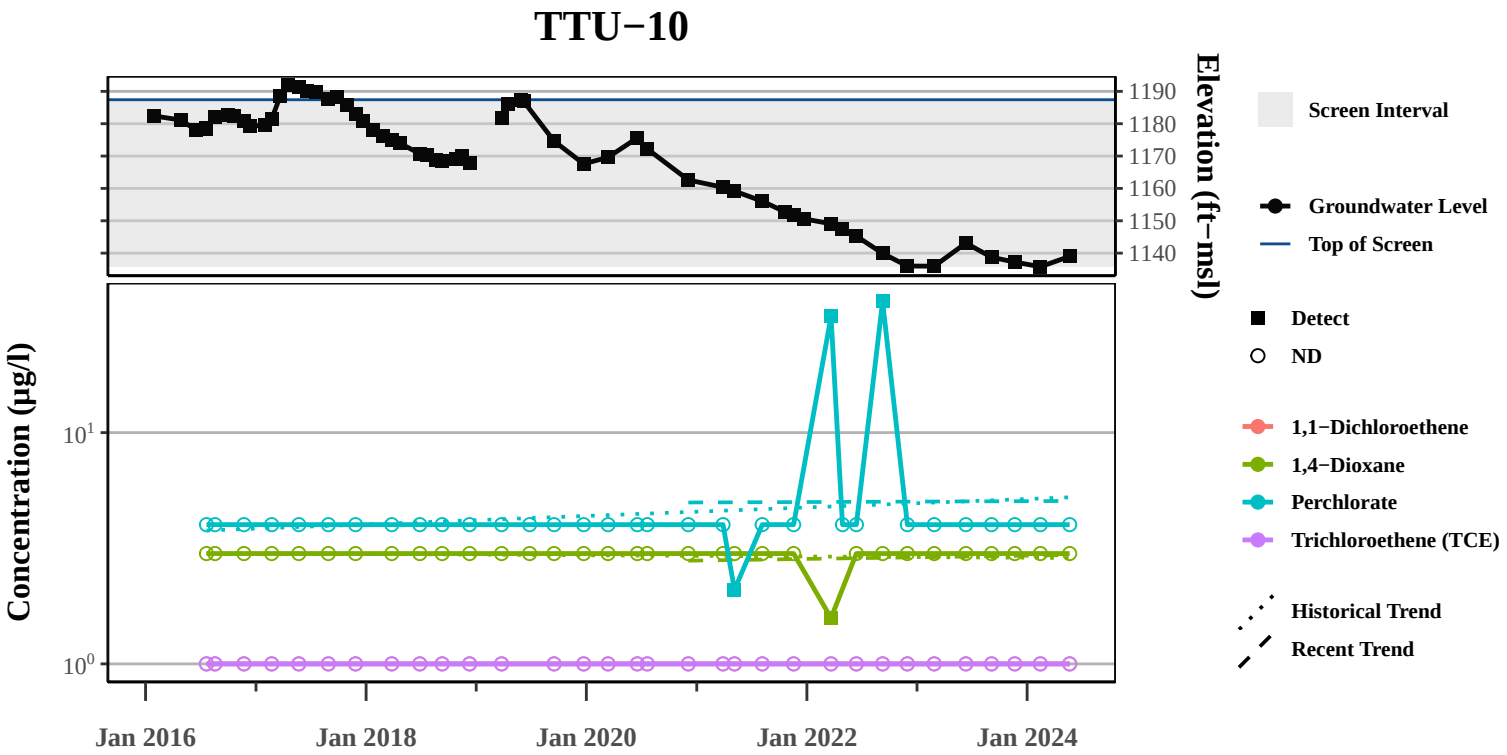
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	NA	NA
Screen Elevation (ft-msl)	NA	NA

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	36	Stable	Stable
1,4-Dioxane	34	Stable	Stable
Perchlorate	40	Stable	No Trend
Trichloroethene (TCE)	36	Stable	Stable



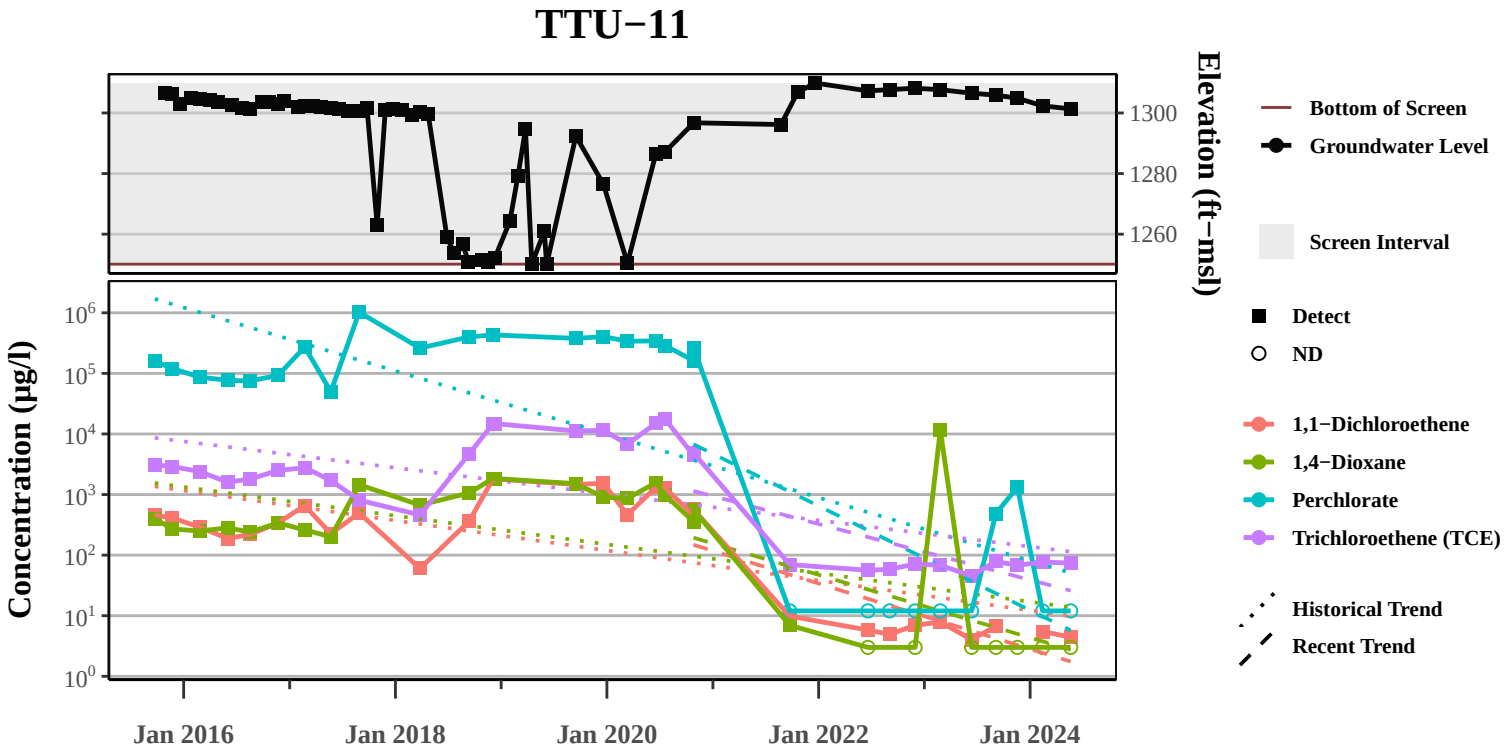
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	30.00	70.00
Screen Elevation (ft-msl)	1282.73	1242.73

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	38	Decreasing	Stable
1,4-Dioxane	37	Stable	Stable
Perchlorate	41	Probably Decreasing	No Trend
Trichloroethene (TCE)	39	Stable	Stable



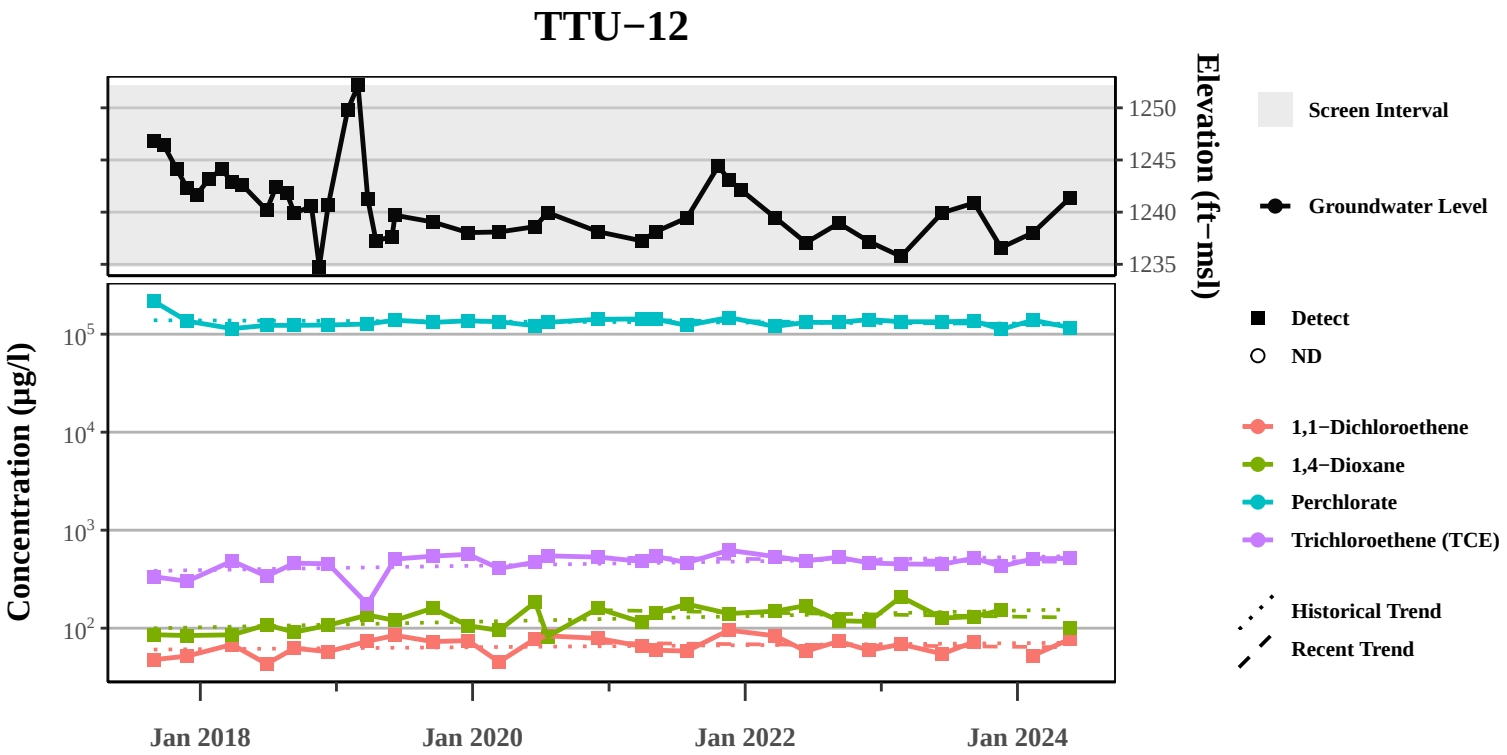
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	115.00	180.00
Screen Elevation (ft-msl)	1187.42	1122.42

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	32	Stable	Stable
1,4-Dioxane	33	Stable	Stable
Perchlorate	34	No Trend	No Trend
Trichloroethene (TCE)	32	Stable	Stable



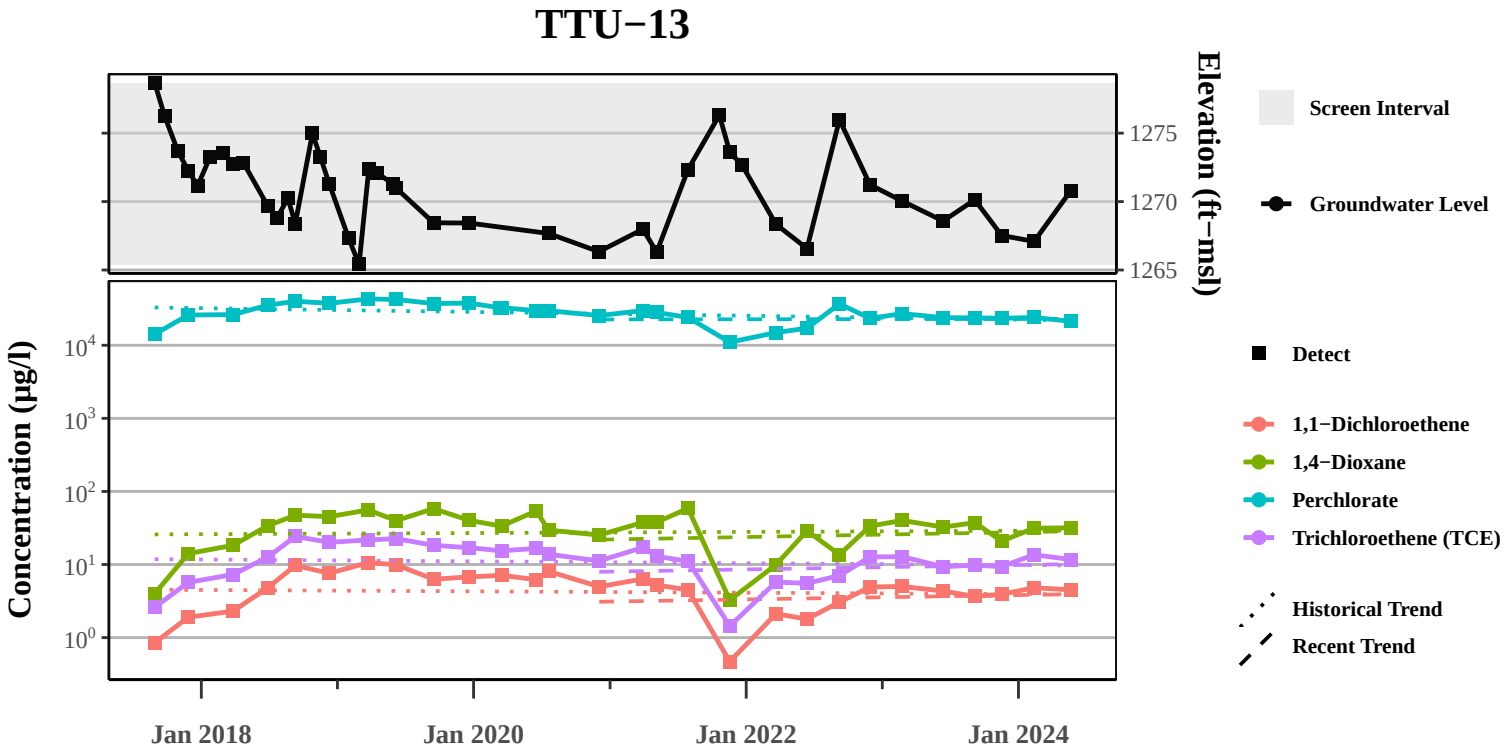
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	24.1	89.1
Screen Elevation (ft-msl)	1315.1	1250.1

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	30	Decreasing	No Trend
1,4-Dioxane	29	Decreasing	Probably Decreasing
Perchlorate	29	Decreasing	No Trend
Trichloroethene (TCE)	30	Decreasing	No Trend



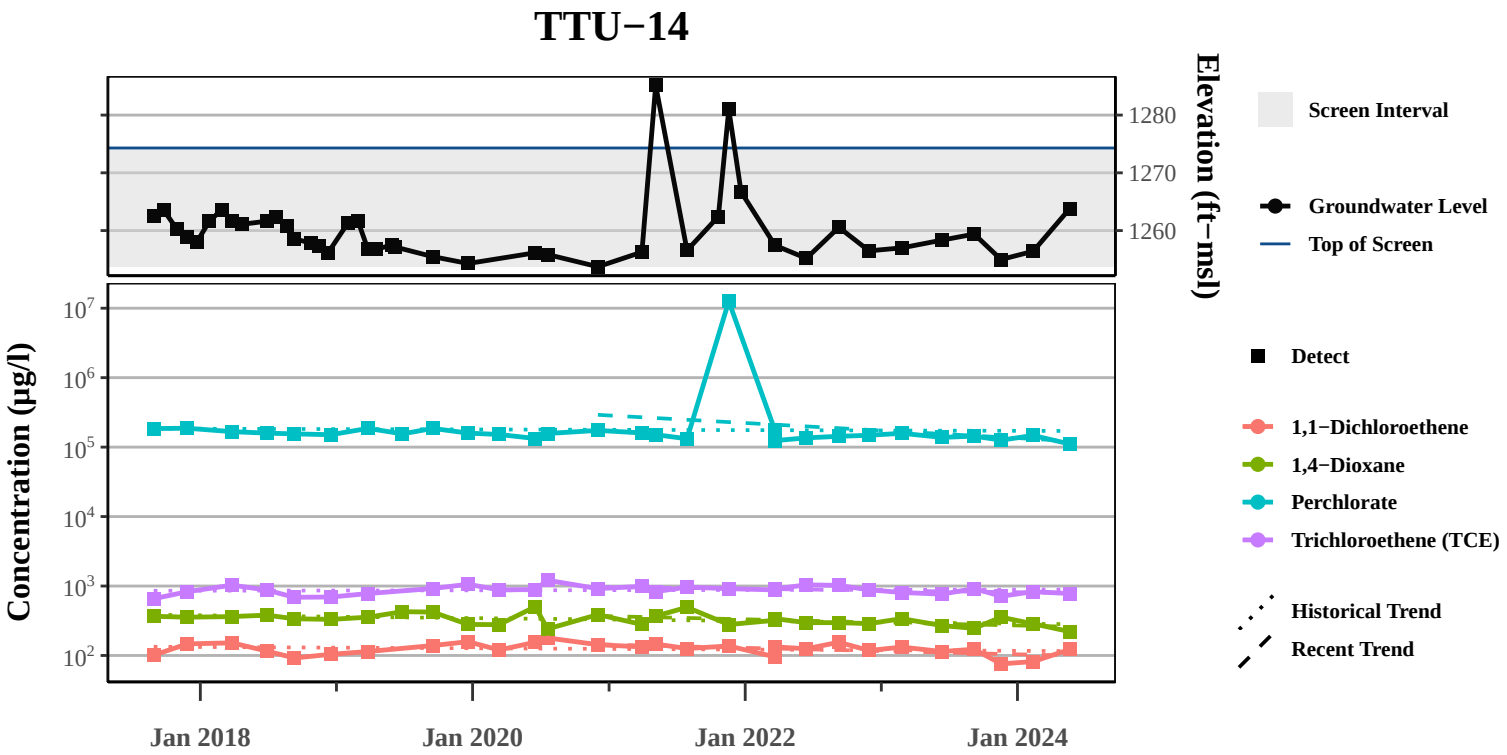
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	30.00	180.00
Screen Elevation (ft-msl)	1282.21	1132.21

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	28	No Trend	Stable
1,4-Dioxane	28	Increasing	Stable
Perchlorate	28	No Trend	Stable
Trichloroethene (TCE)	28	No Trend	Stable



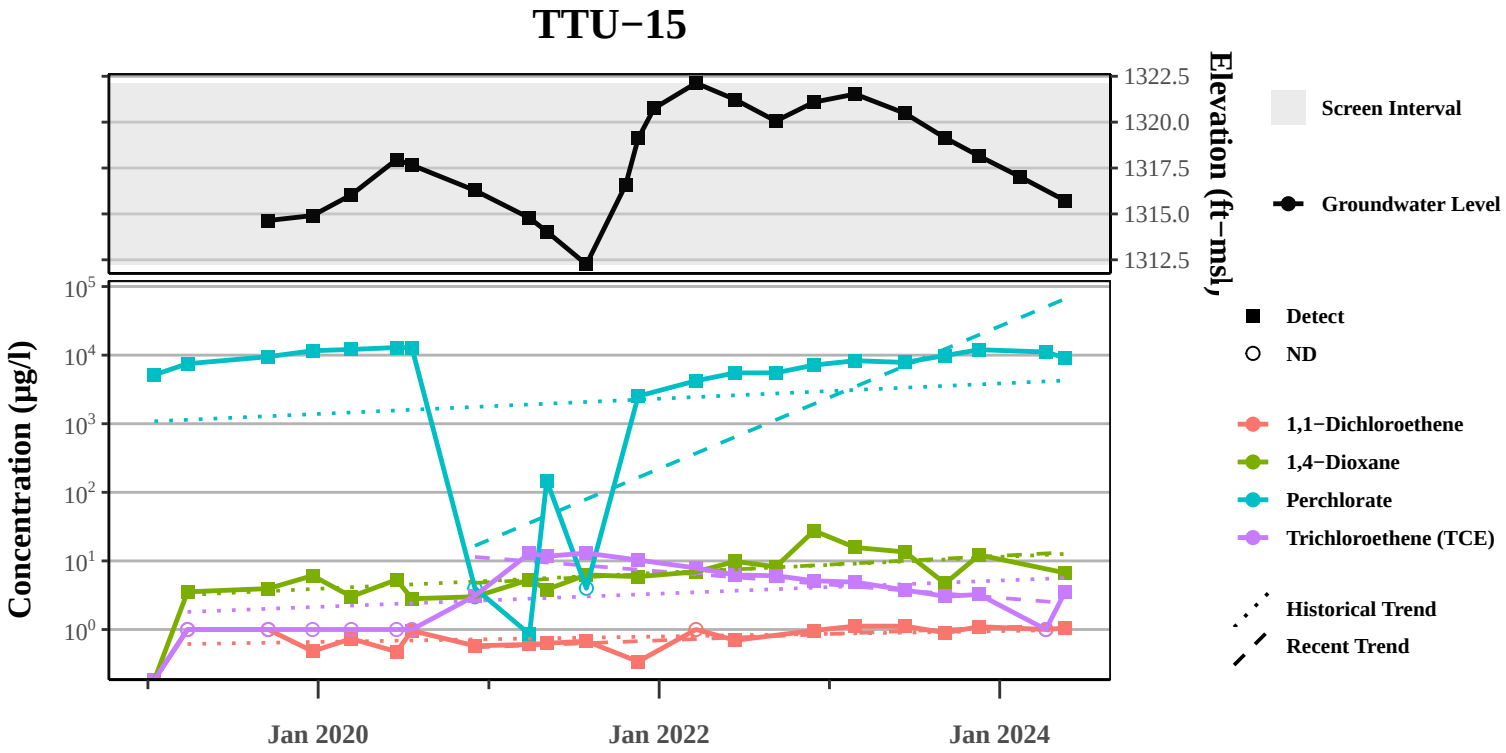
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	30.00	80.00
Screen Elevation (ft-msl)	1280.79	1230.79

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	28	Probably Decreasing	Stable
1,4-Dioxane	28	Stable	Stable
Perchlorate	29	Decreasing	Stable
Trichloroethene (TCE)	28	Probably Decreasing	Stable



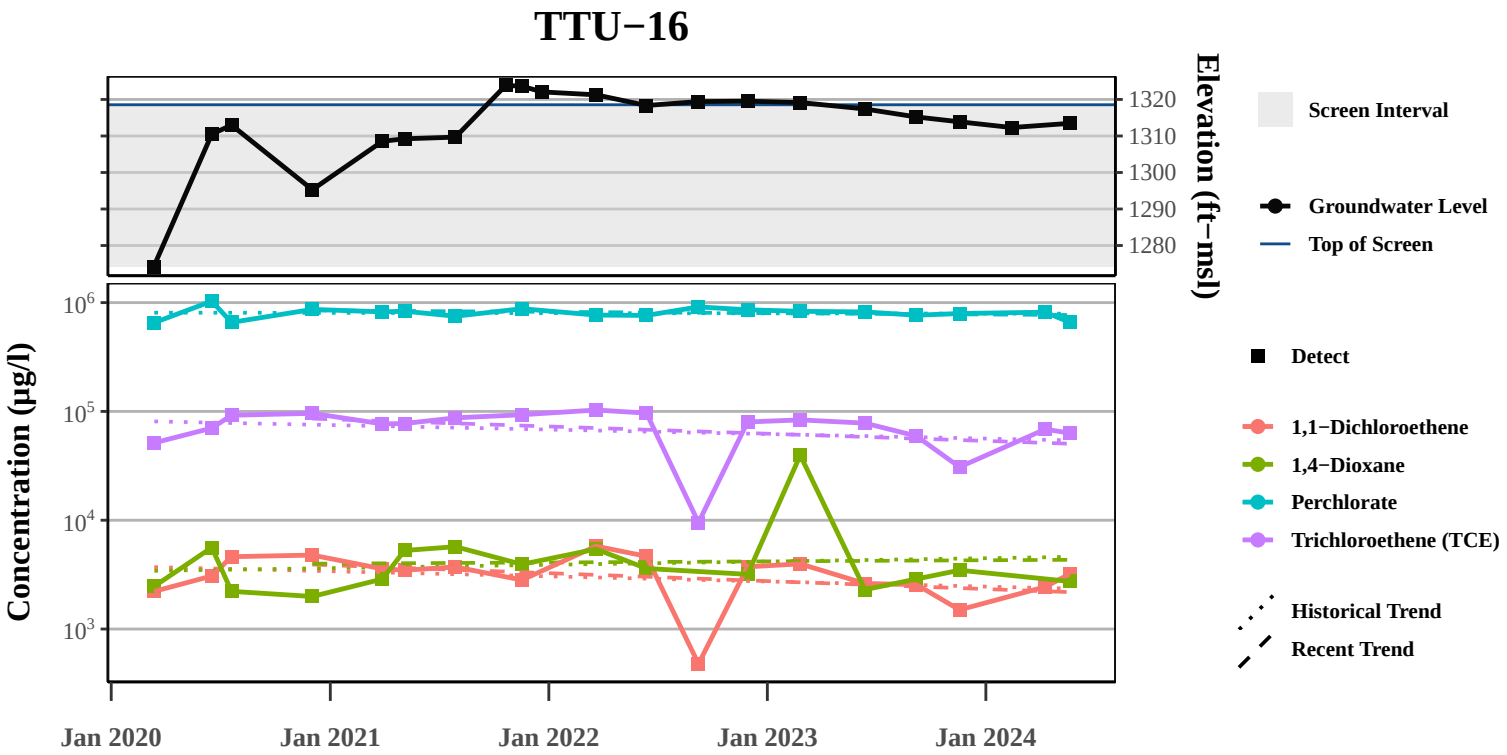
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	45.0	100.0
Screen Elevation (ft-msl)	1274.3	1219.3

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	28	Stable	Stable
1,4-Dioxane	29	Decreasing	Stable
Perchlorate	29	Decreasing	Stable
Trichloroethene (TCE)	28	No Trend	No Trend



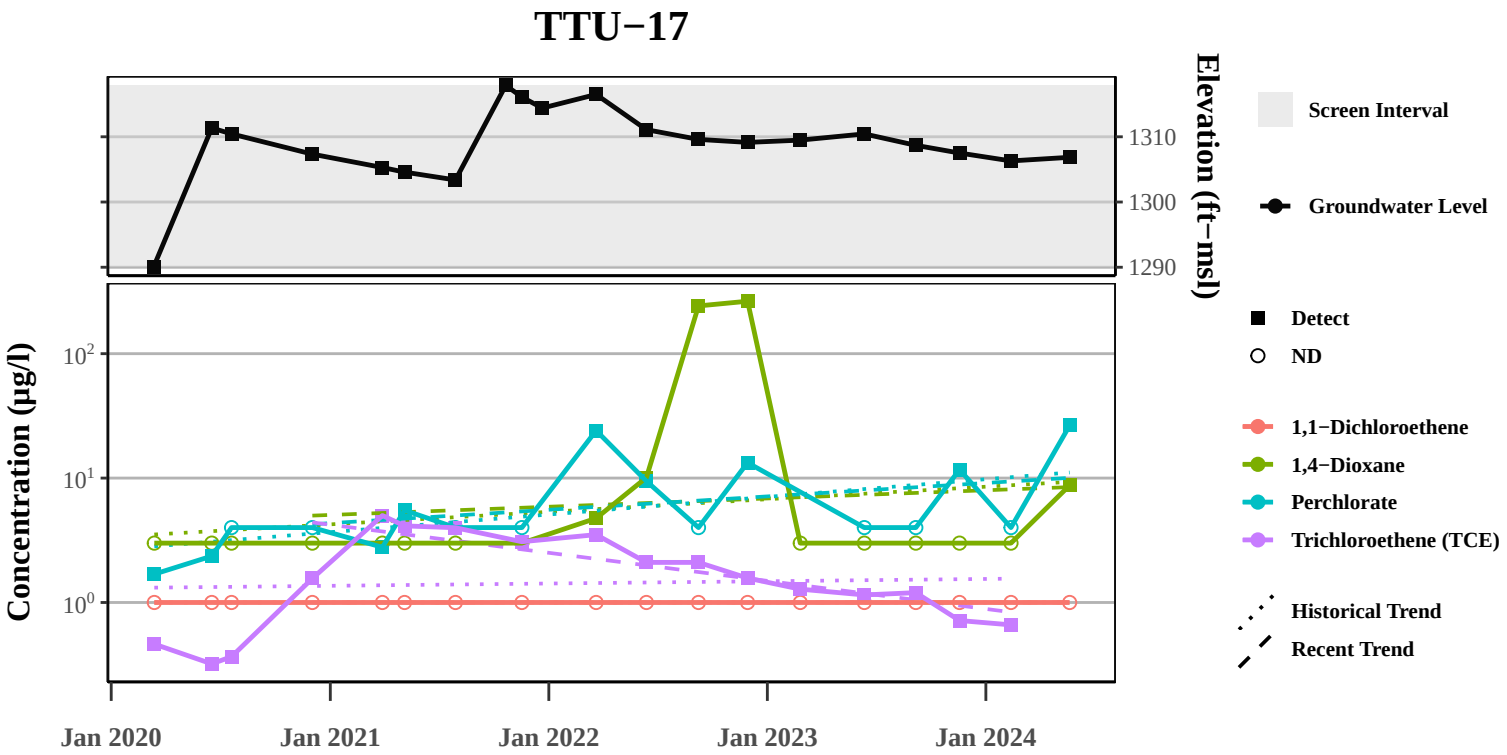
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	10.00	100.00
Screen Elevation (ft-msl)	1340.85	1250.85

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	21	Increasing	Increasing
1,4-Dioxane	21	Increasing	Increasing
Perchlorate	22	No Trend	Increasing
Trichloroethene (TCE)	22	No Trend	Probably Decreasing



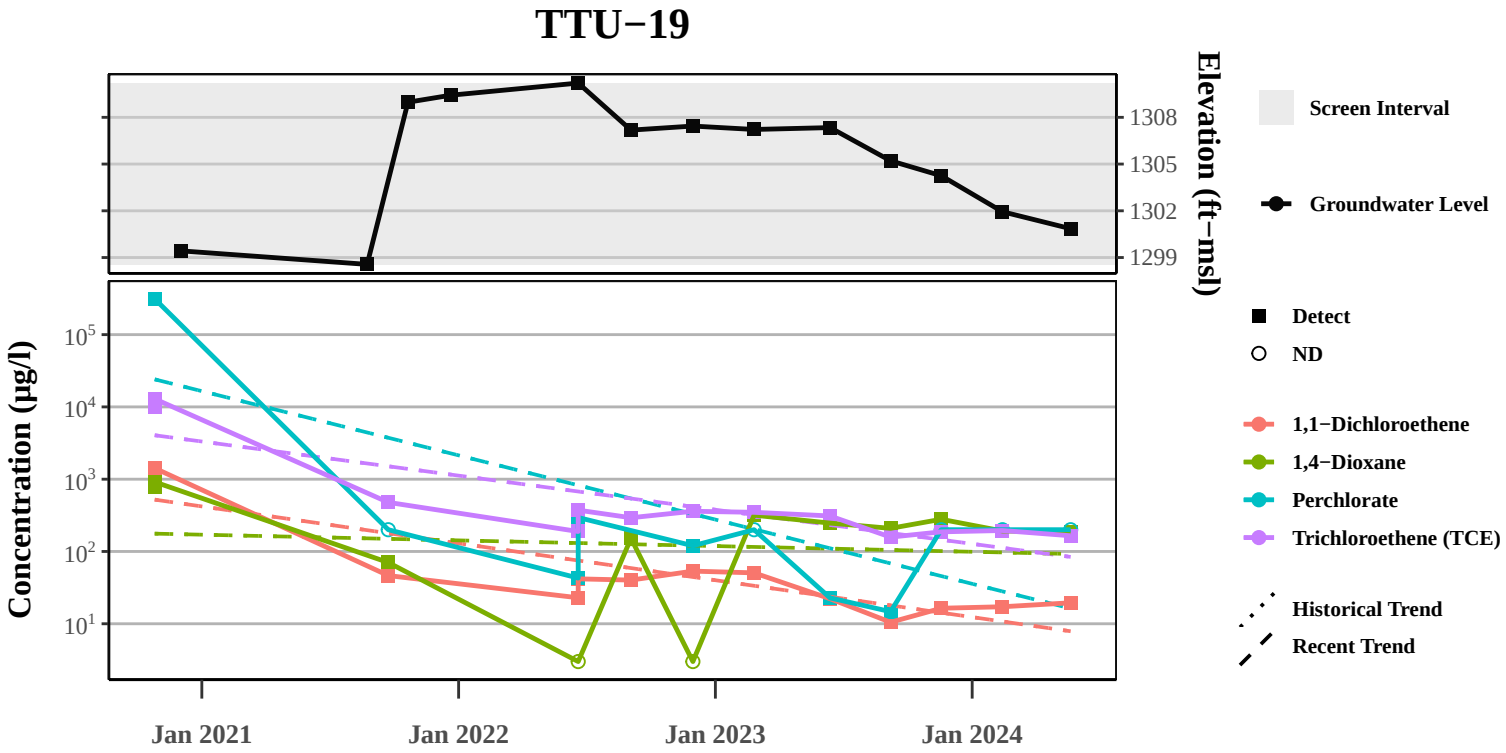
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	20.00	95.60
Screen Elevation (ft-msl)	1318.55	1242.95

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	18	Stable	Stable
1,4-Dioxane	16	No Trend	No Trend
Perchlorate	18	Stable	No Trend
Trichloroethene (TCE)	18	Stable	No Trend



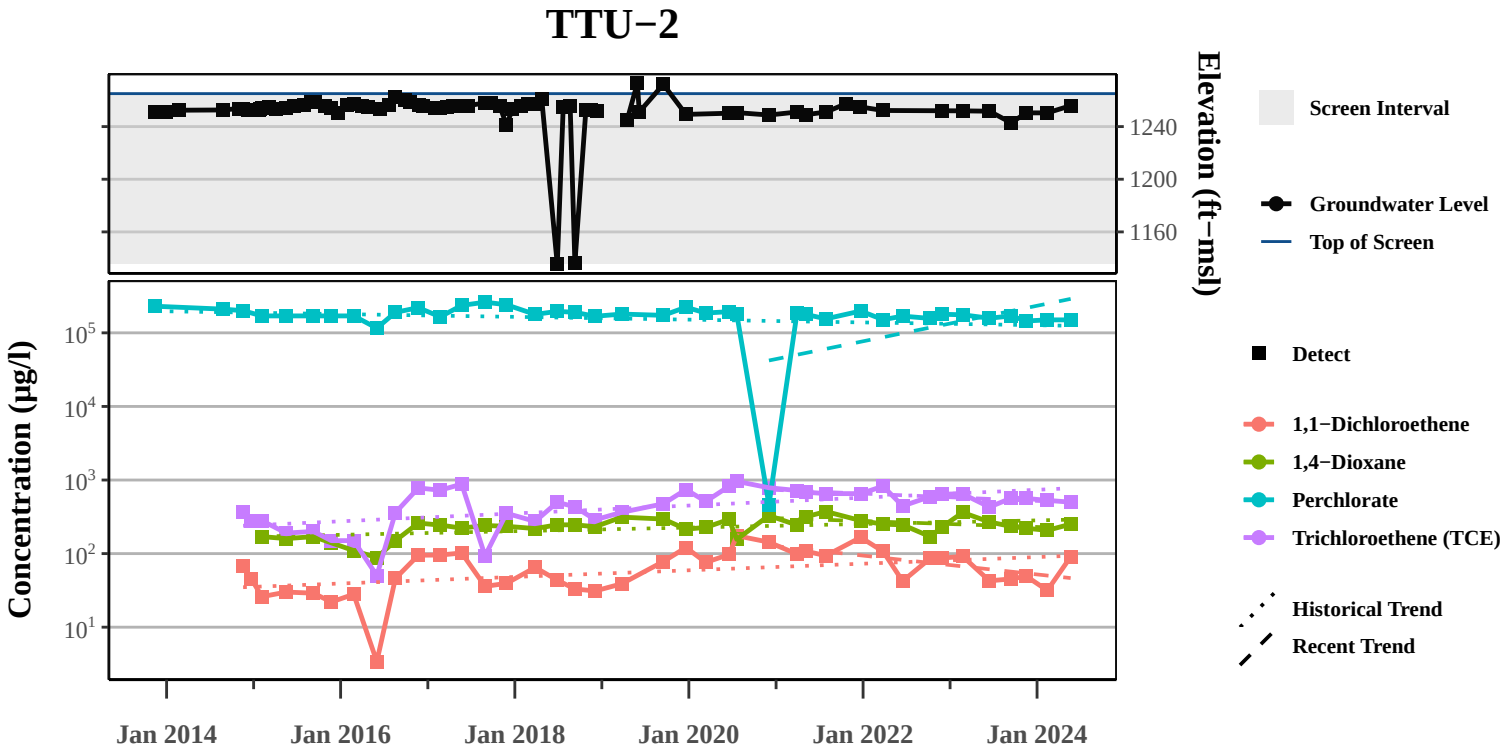
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	20.00	101.00
Screen Elevation (ft-msl)	1327.49	1246.49

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	18	Stable	Stable
1,4-Dioxane	18	Probably Increasing	Increasing
Perchlorate	17	Increasing	Probably Increasing
Trichloroethene (TCE)	18	Not enough data	Decreasing



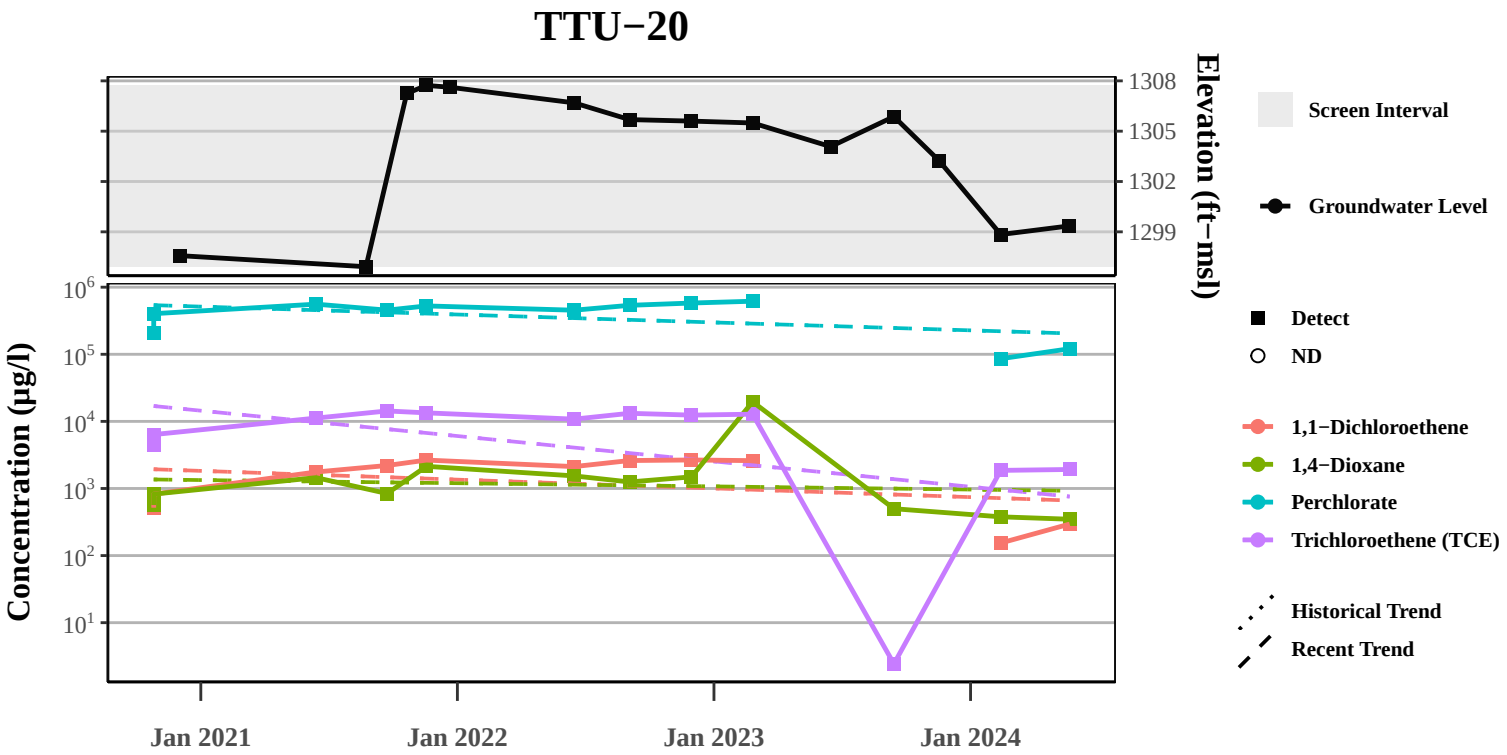
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	25.00	95.00
Screen Elevation (ft-msl)	1311.67	1241.67

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	13	Decreasing	No Trend
1,4-Dioxane	12	No Trend	No Trend
Perchlorate	12	Probably Decreasing	No Trend
Trichloroethene (TCE)	13	Decreasing	Decreasing



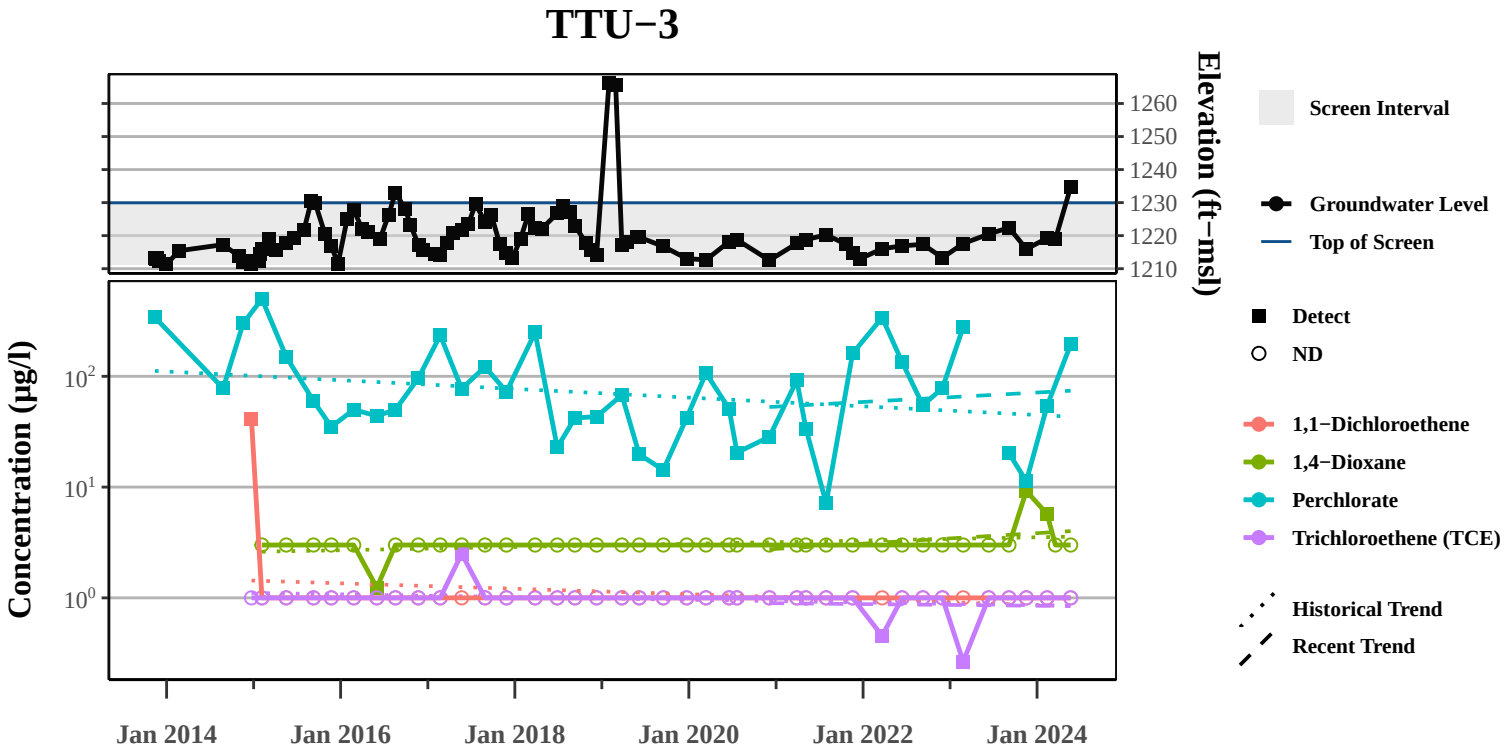
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	49.40	179.60
Screen Elevation (ft-msl)	1265.04	1134.84

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	39	Increasing	Probably Decreasing
1,4-Dioxane	37	Increasing	Decreasing
Perchlorate	40	Decreasing	Stable
Trichloroethene (TCE)	39	Increasing	Decreasing



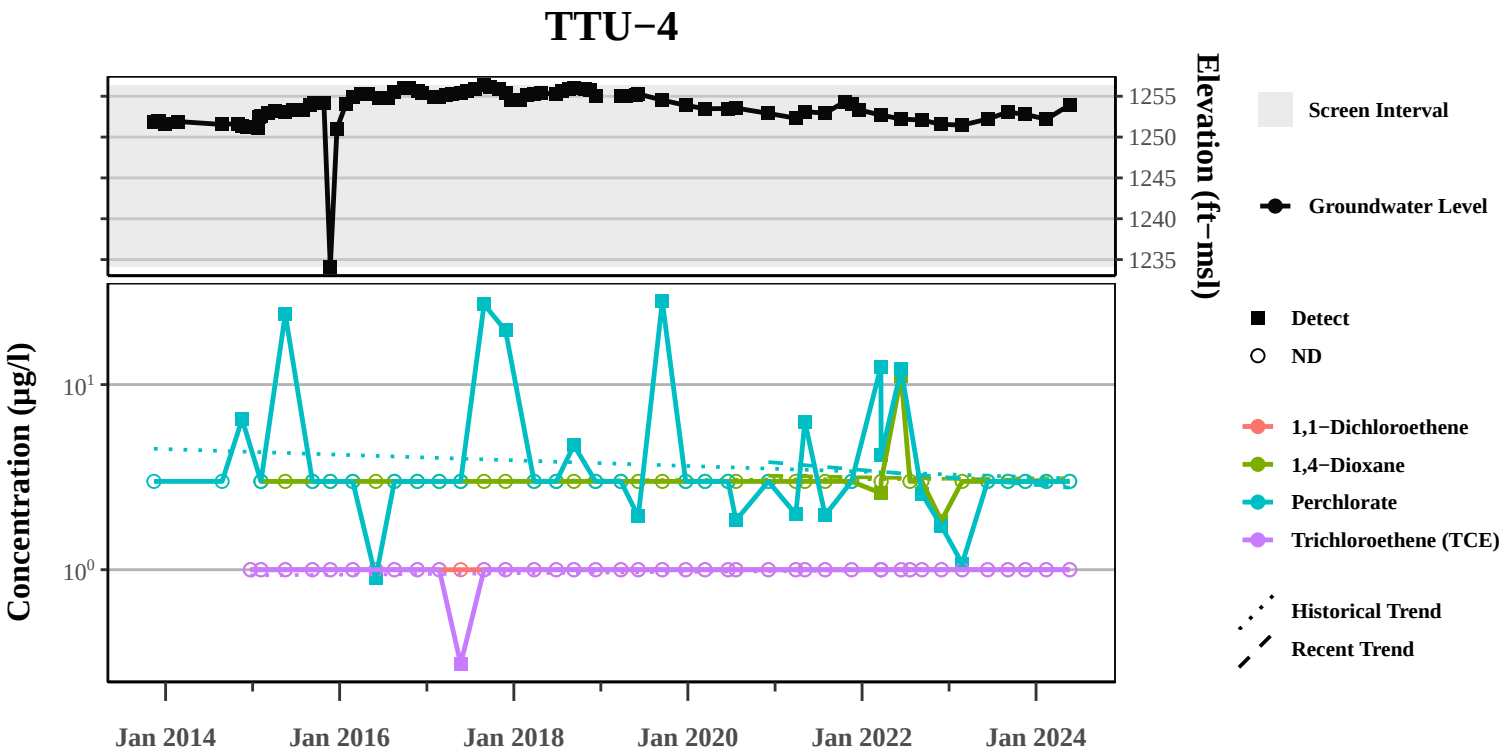
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	25.0	95.0
Screen Elevation (ft-msl)	1311.9	1241.9

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	12	No Trend	Increasing
1,4-Dioxane	12	No Trend	No Trend
Perchlorate	12	No Trend	No Trend
Trichloroethene (TCE)	12	Stable	No Trend



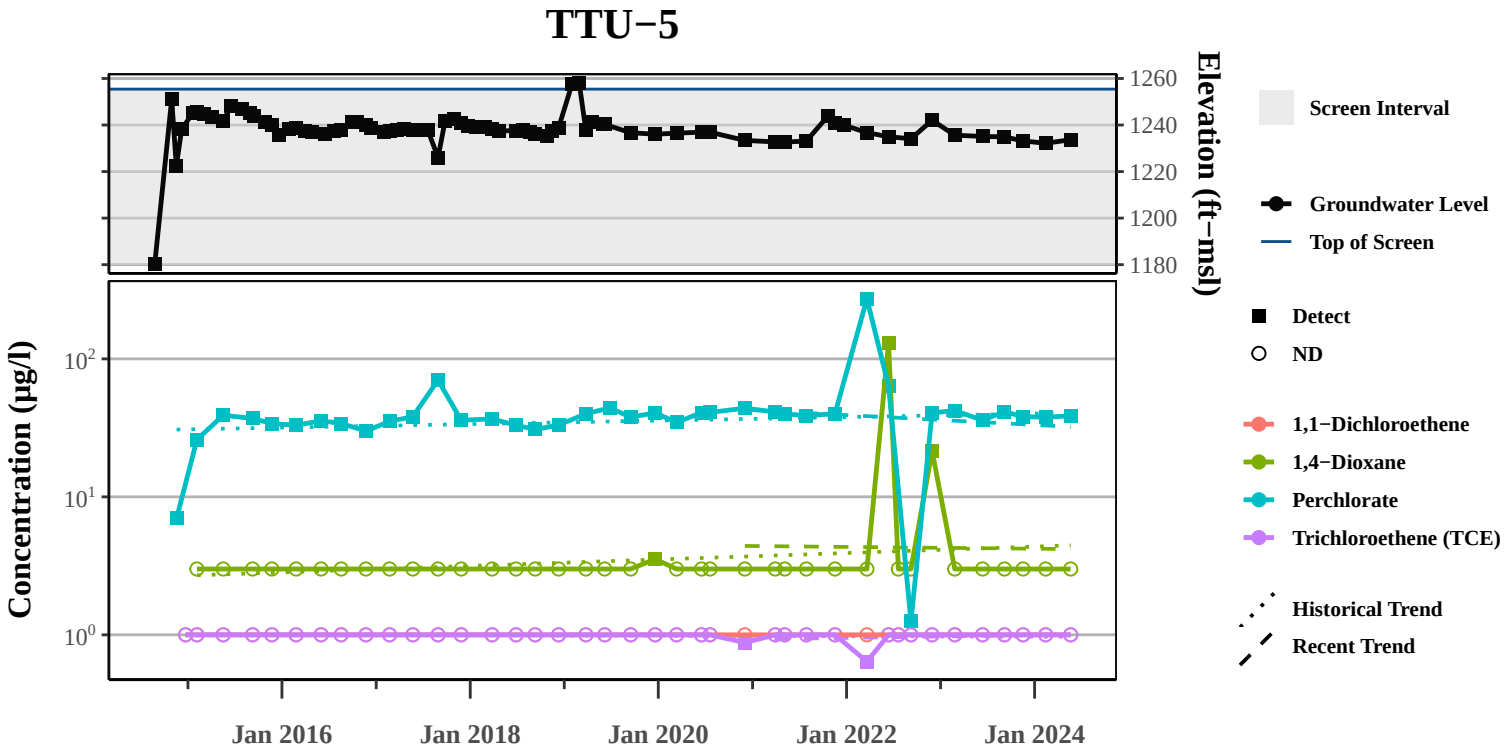
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	78.10	138.10
Screen Elevation (ft-msl)	1229.93	1169.93

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	39	Probably Decreasing	Stable
1,4-Dioxane	39	Increasing	Stable
Perchlorate	41	Probably Decreasing	No Trend
Trichloroethene (TCE)	39	Decreasing	Stable



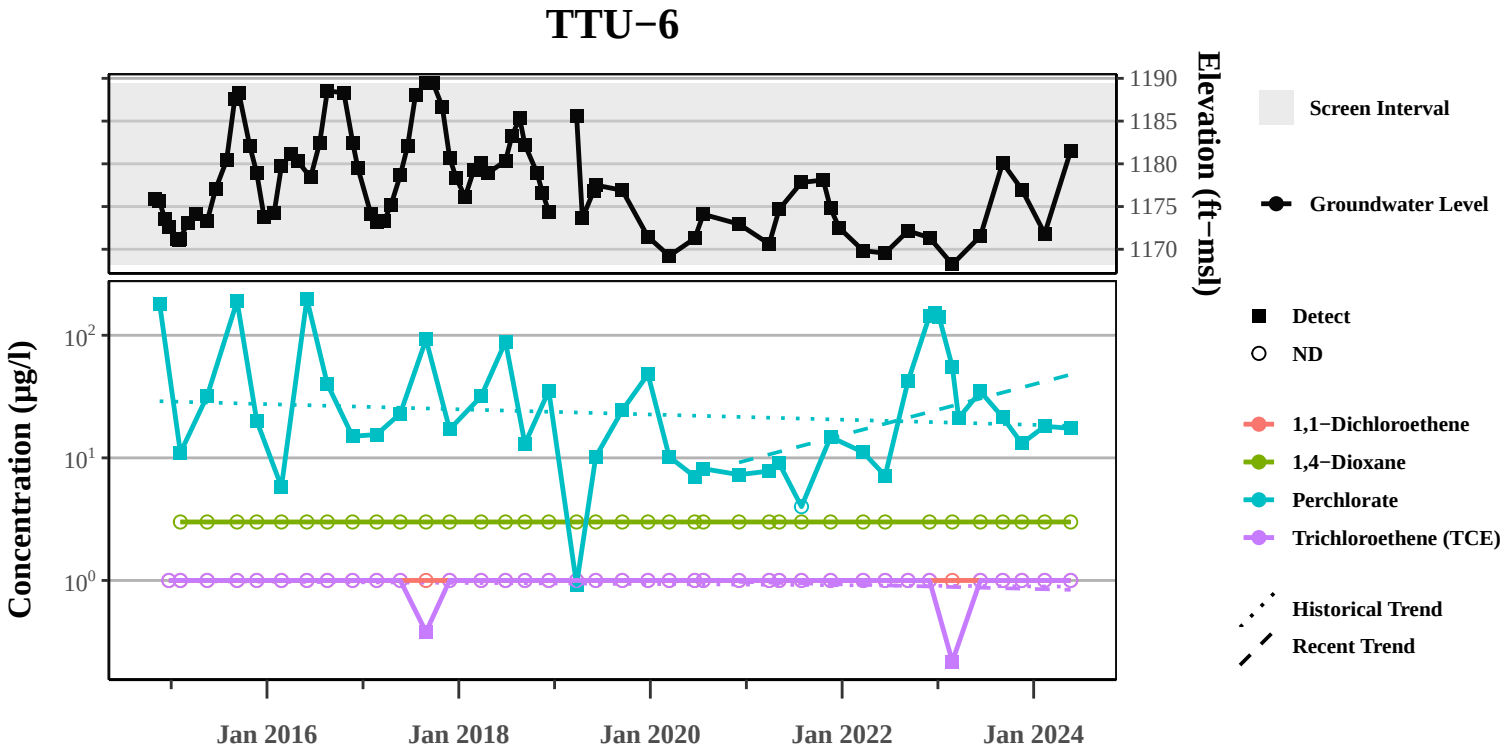
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	39.50	99.50
Screen Elevation (ft-msl)	1265.62	1205.62

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	41	Stable	Stable
1,4-Dioxane	40	Stable	Stable
Perchlorate	42	No Trend	Stable
Trichloroethene (TCE)	41	No Trend	Stable



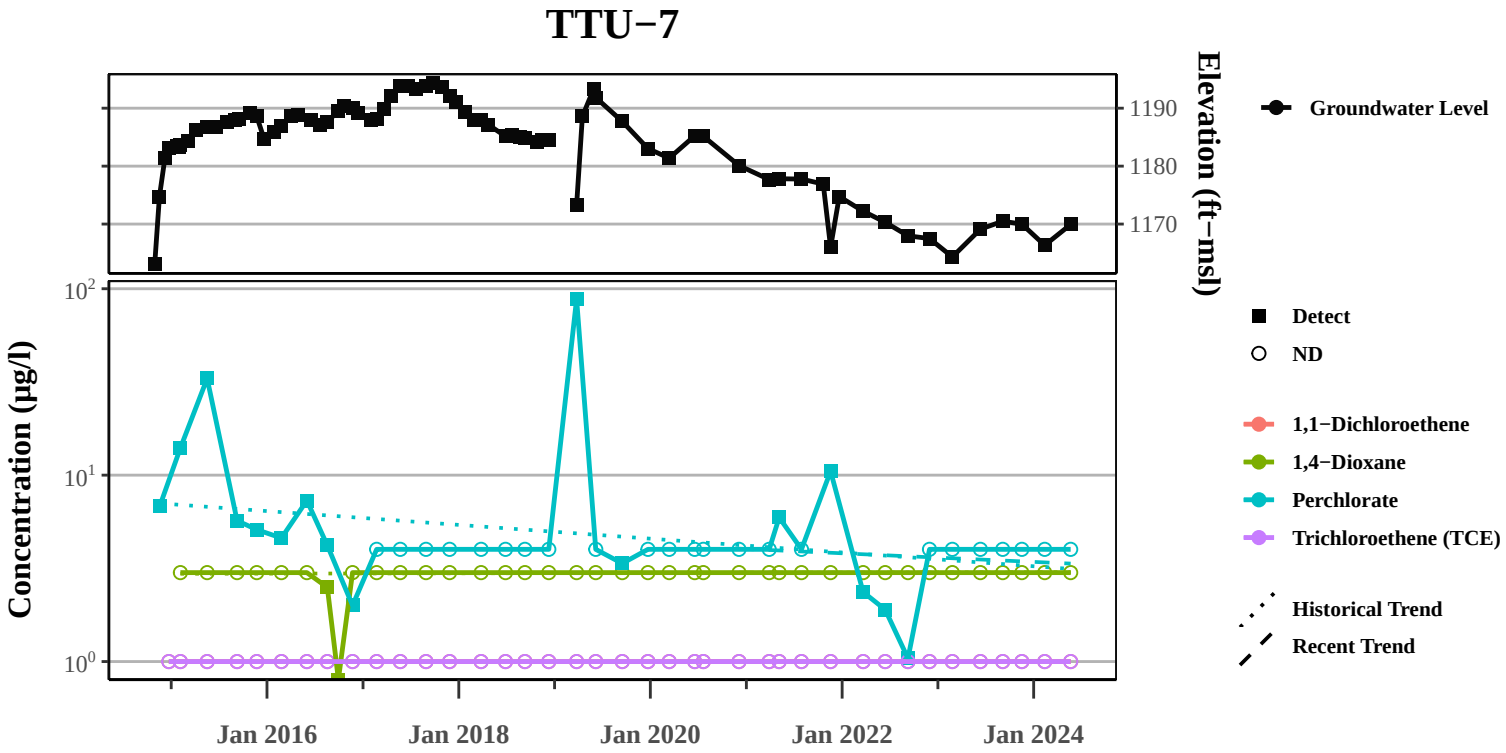
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	59.50	164.50
Screen Elevation (ft-msl)	1255.43	1150.43

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	40	Stable	Stable
1,4-Dioxane	39	No Trend	Probably Increasing
Perchlorate	39	Increasing	No Trend
Trichloroethene (TCE)	40	Stable	No Trend



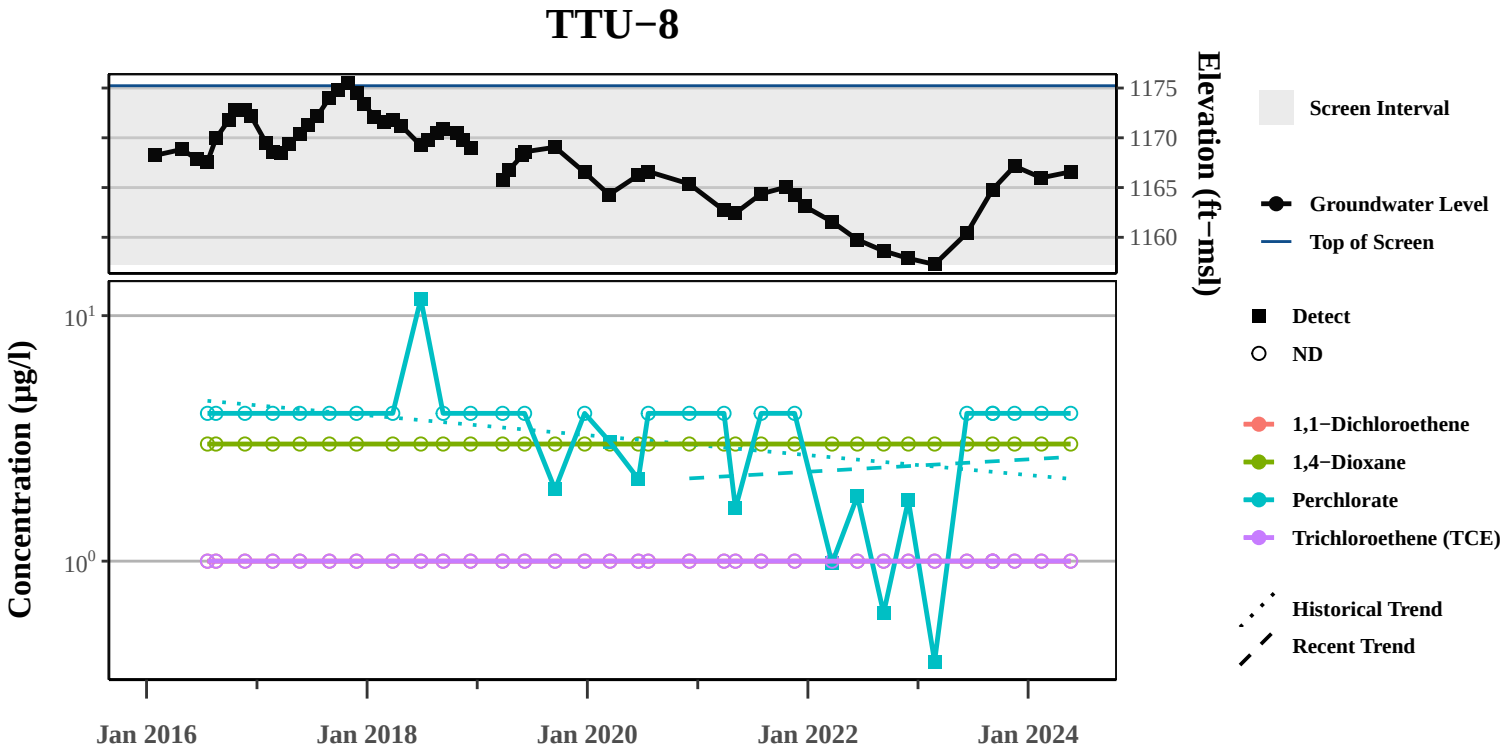
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	110.00	175.00
Screen Elevation (ft-msl)	1190.84	1125.84

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	39	Stable	Stable
1,4-Dioxane	37	Stable	Stable
Perchlorate	42	No Trend	Increasing
Trichloroethene (TCE)	39	Stable	Stable



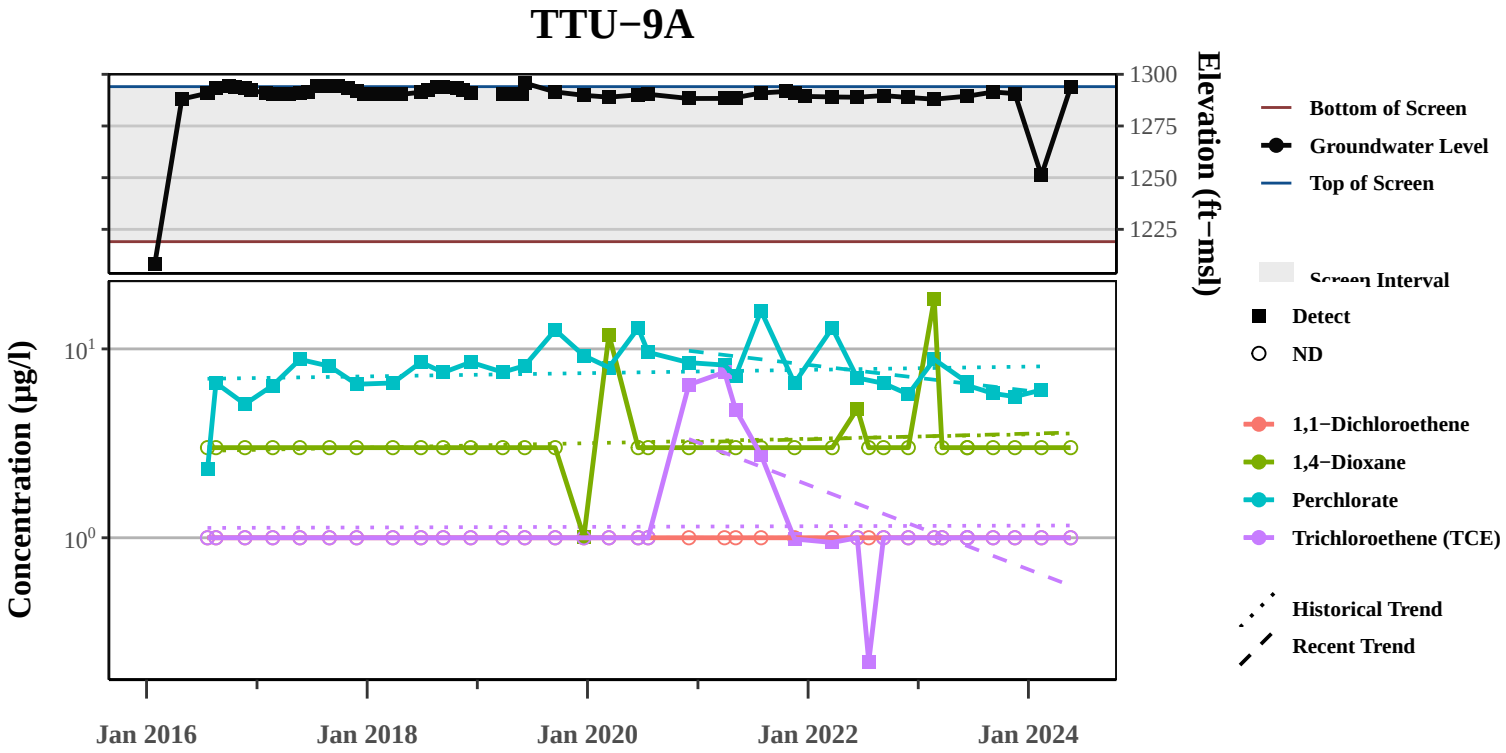
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	282.00	410.00
Screen Elevation (ft-msl)	1019.84	891.84

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	39	Stable	Stable
1,4-Dioxane	39	Probably Increasing	Stable
Perchlorate	39	Decreasing	Stable
Trichloroethene (TCE)	39	Stable	Stable



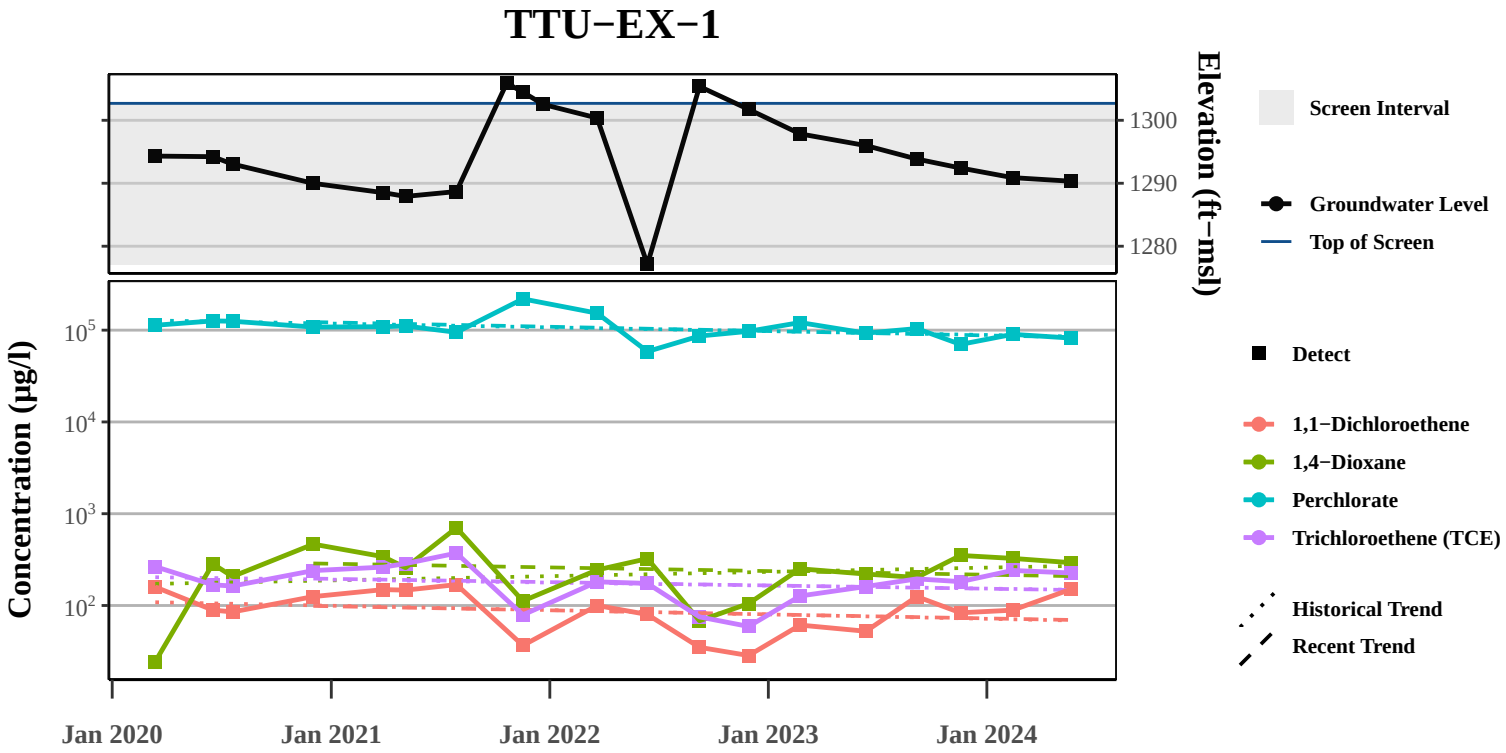
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	135.00	185.00
Screen Elevation (ft-msl)	1175.23	1125.23

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	34	Stable	Stable
1,4-Dioxane	33	Stable	Stable
Perchlorate	34	Decreasing	Probably Decreasing
Trichloroethene (TCE)	34	Stable	Stable



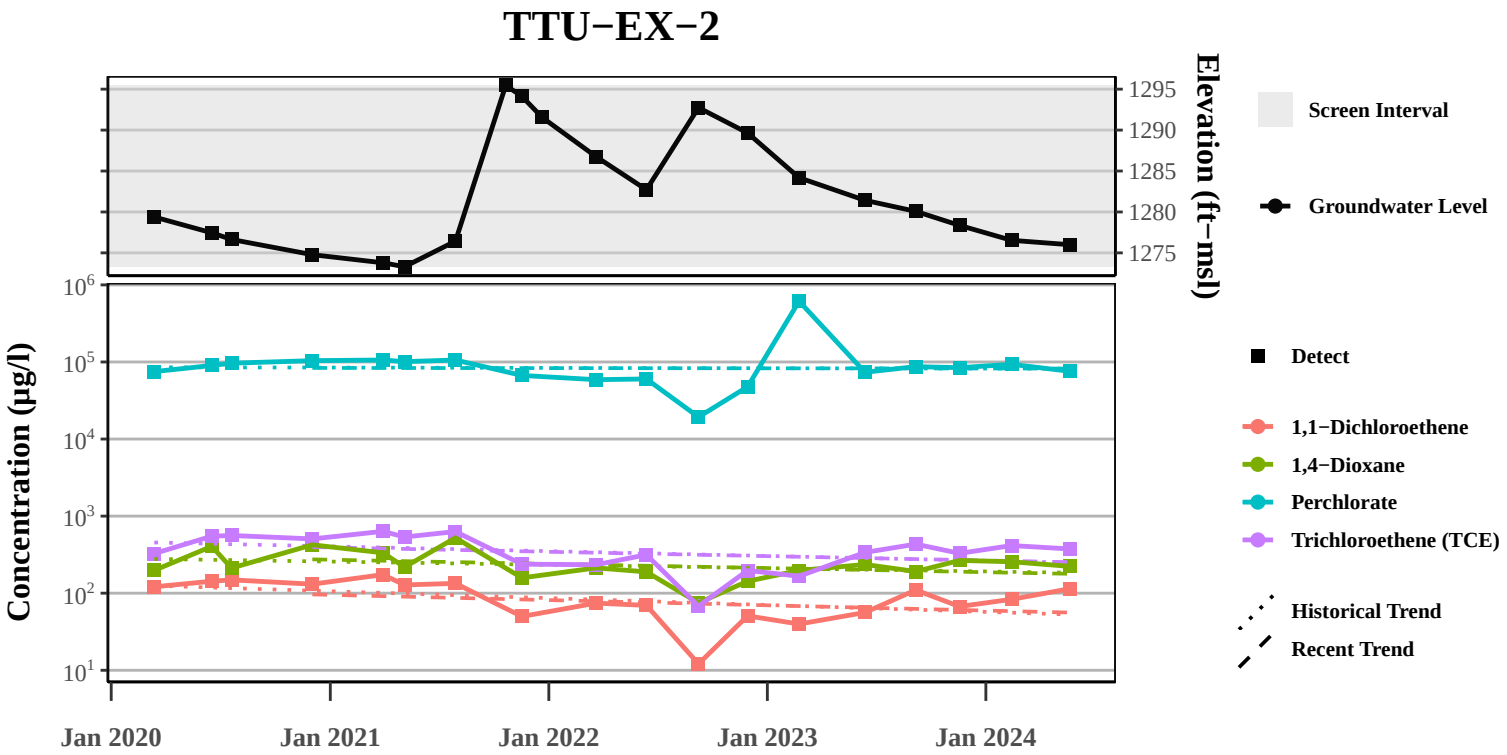
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	24.00	99.00
Screen Elevation (ft-msl)	1294.04	1219.04

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	36	Stable	Stable
1,4-Dioxane	36	No Trend	No Trend
Perchlorate	34	Not enough data	Decreasing
Trichloroethene (TCE)	36	No Trend	Decreasing



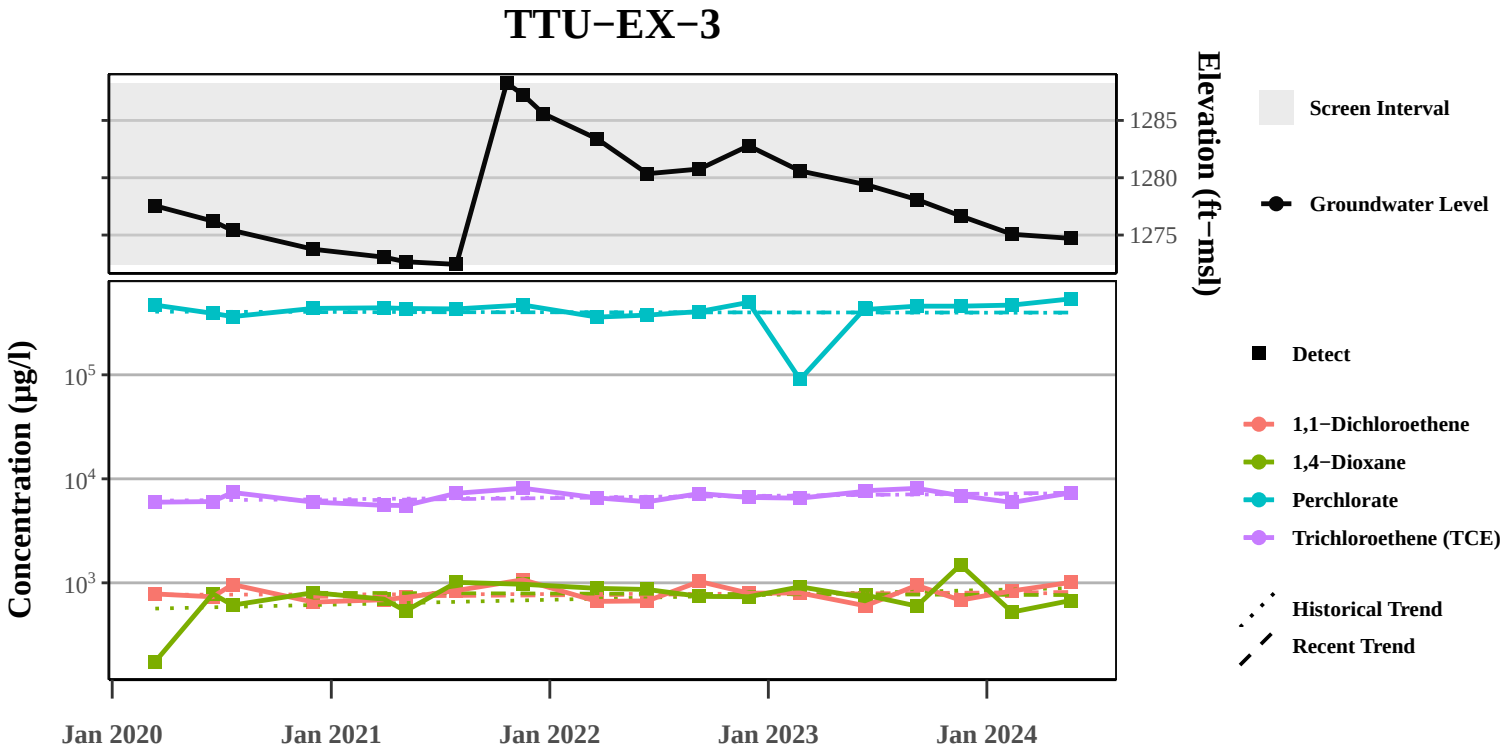
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	19.00	110.70
Screen Elevation (ft-msl)	1302.69	1210.99

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	18	Stable	Decreasing
1,4-Dioxane	18	No Trend	Decreasing
Perchlorate	18	Decreasing	Stable
Trichloroethene (TCE)	18	Stable	Decreasing



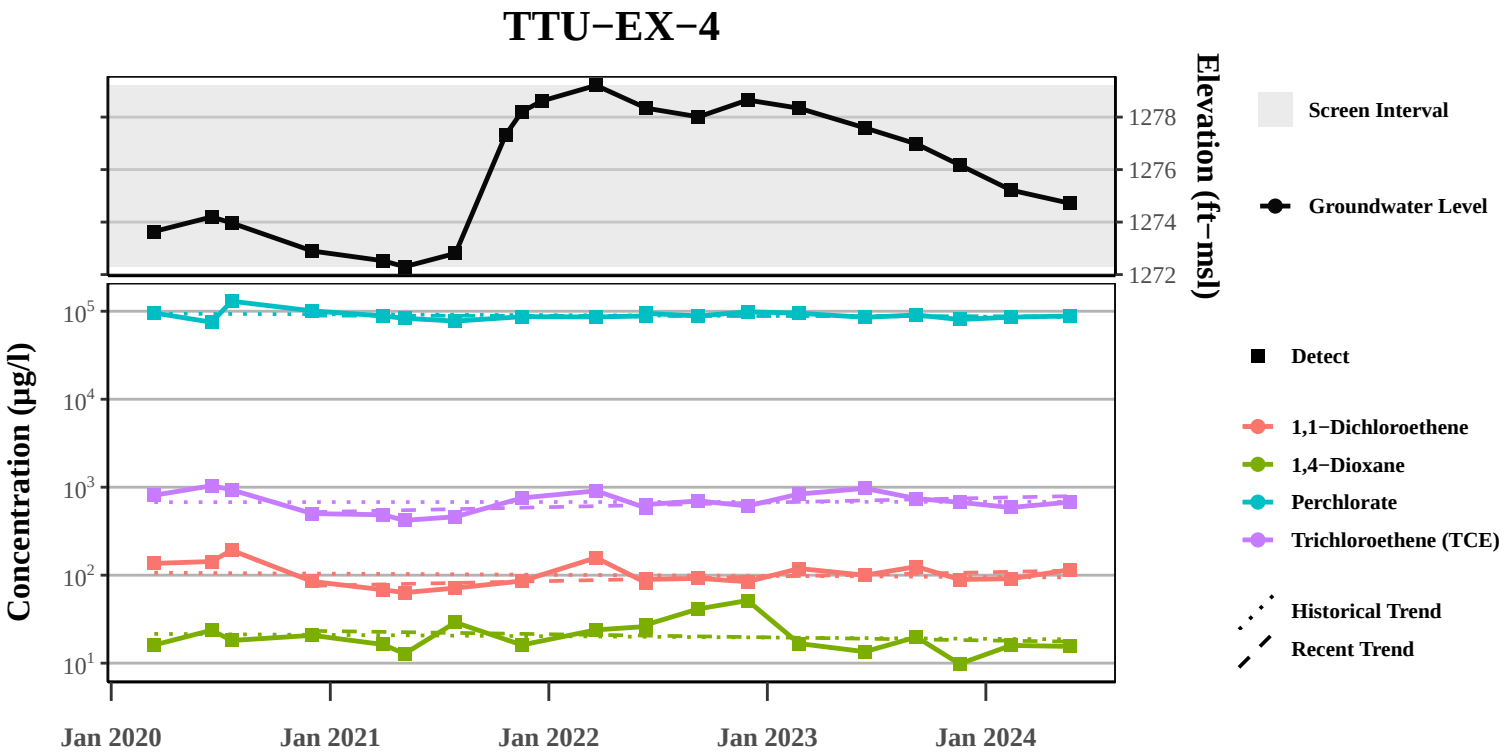
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	20.0	110.0
Screen Elevation (ft-msl)	1296.4	1206.4

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	18	Decreasing	Decreasing
1,4-Dioxane	18	Stable	Decreasing
Perchlorate	18	No Trend	Decreasing
Trichloroethene (TCE)	18	Probably Decreasing	Decreasing



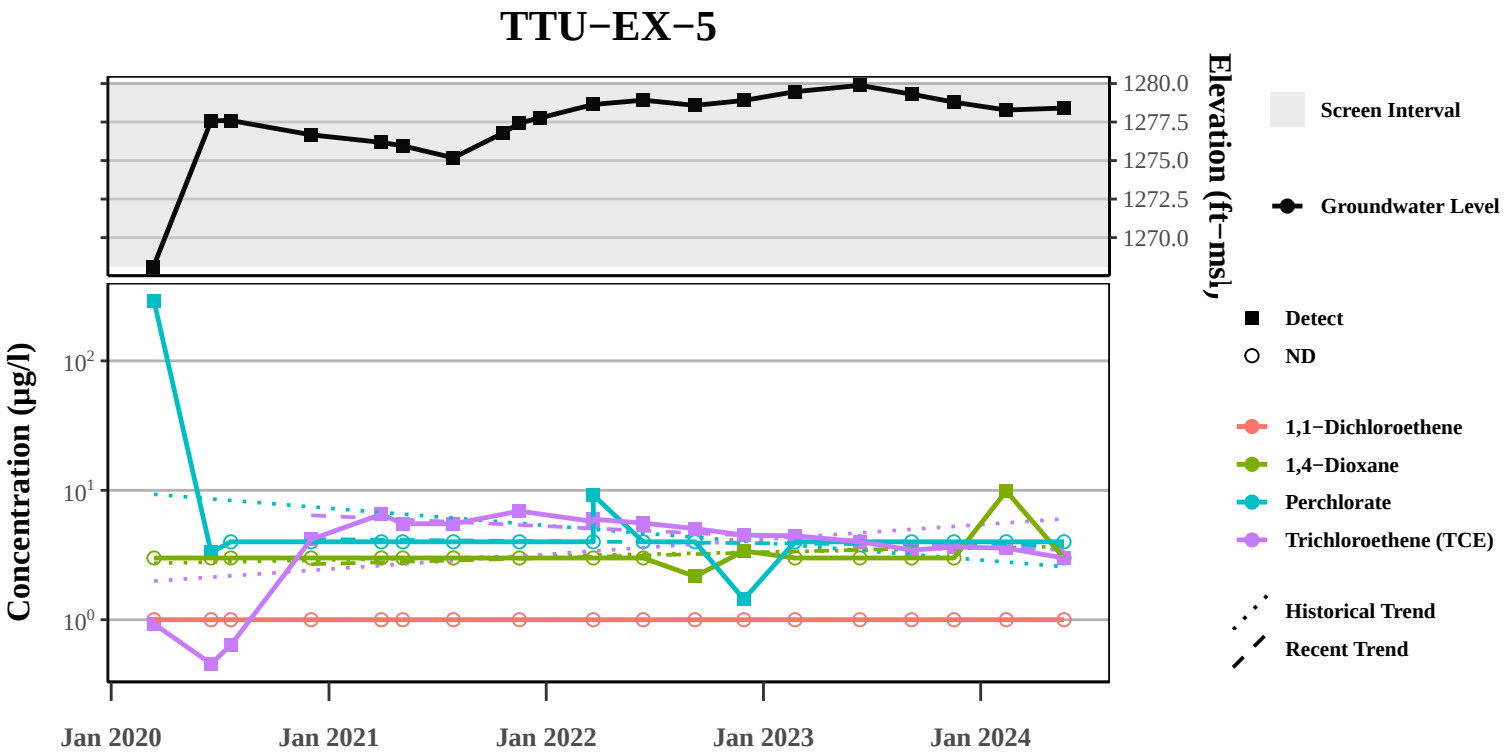
Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	20.00	101.45
Screen Elevation (ft-msl)	1296.85	1215.40

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	19	No Trend	No Trend
1,4-Dioxane	19	Stable	Stable
Perchlorate	19	Probably Increasing	Stable
Trichloroethene (TCE)	19	Probably Increasing	No Trend



Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	20.00	110.70
Screen Elevation (ft-msl)	1299.96	1209.26

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	19	No Trend	Probably Increasing
1,4-Dioxane	19	Stable	Increasing
Perchlorate	19	Stable	No Trend
Trichloroethene (TCE)	19	Stable	No Trend



Area: TTU	Top Screen	Bottom Screen
Screen Depth (ft-btoc)	20.0	110.8
Screen Elevation (ft-msl)	1299.5	1208.7

Analyte	N	Historical Trend	Recent Trend
1,1-Dichloroethene	18	Stable	Stable
1,4-Dioxane	18	No Trend	No Trend
Perchlorate	19	No Trend	Stable
Trichloroethene (TCE)	19	Stable	Stable

ATTACHMENT 3

DATA VALIDATION MEMORANDUM

Geosyntec consultants

3043 Gold Canal Drive Suite 100
Rancho Cordova, CA 95670
PH 916-637-8048
www.geosyntec.com

Memorandum

Date:	28 June 2024
To:	Tory Luttermoser
From:	Symone Stocking
CC:	Morgan Greenwald, Todd Olsen
Subject:	**Stage 2A Data Validation - Level II Data Deliverables, Pace Analytical Sample Delivery Groups (SDGs) L1739181 and Eurofins Phoenix Work Order Number 550-219349-1**

SITE: Nammo Defense Systems Inc. (NDS) - Thermal Treatment Unit (TTU)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five groundwater samples, with two samples designated for matrix spike/matrix spike duplicate (MS/MSD) parents, three field duplicate samples, and two trip blanks, collected on 20 and 21 May 2024, and one drinking water sample collected on 6 June 2024, as part of the NDS TTU second Quarter 2024 groundwater sampling event. The samples were submitted to Pace Analytical Laboratory (Pace) in Mount Juliet, Tennessee and Eurofins Phoenix, Arizona analyzed for the following tests:

- Perchlorate by United States Environmental Protection Agency (USEPA) Method 314.0 and 314.0 (Modified)
- Volatile Organic Compounds (VOCs) by USEPA Method 8260B
- 1,4-Dioxane by USEPA Method 8260B using Selected Ion Monitoring (SIM) Mode

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the Quality Assurance Project Plan for Groundwater Investigation, August 2013 (QAPP), the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review, November 2020 (EPA-540-R-20-005), the USEPA NFG for Inorganic Superfund Methods Data Review, November 2020 (EPA-542-R-20-006), and the Draft Region 9 Superfund Data Evaluation/Validation Guidance, December 2001

(R9QA/006.1), as well as the pertinent methods referenced by the laboratory reports, and professional and technical judgment.

The following samples were analyzed and validated at a Stage 2A level in the data sets:

Laboratory ID	Client ID
L1739181-01	TTU-5-GW-110-20240520
L1739181-02	TTU-EX-5-GW-80-20240520
L1739181-03	TTU-EX-4-GW-77-20240520
L1739181-04	TTU-EX-3-GW-76-20240520
L1739181-05	TTU-EX-3-GW-76-20240520-DUP
L1739181-06	TTU-EX-2-GW-74-20240520
L1739181-07	TTU-EX-1-GW-69-20240520
L1739181-08	TTU-17-GW-80-20240520
L1739181-09	TTU-15-GW-75-20240520
L1739181-10	TTU-16-GW-80-20240520
L1739181-11	TTU-12-GW-82-20240520
L1739181-12	TTU-14-GW-69-20240520
L1739181-13	TTU-14-GW-69-20240520-DUP
L1739181-14	TTU-13-GW-51-20240520
L1739181-15	TTU-9A-GW-61-20240520
L1739181-16	TTU-9A-GW-61-20240520-DUP

Laboratory ID	Client ID
L1739181-17	TTU-20-GW-73-20240521
L1739181-18	TTU-2-GW-114-20240521
L1739181-19	TTU-1-GW-50-20240521
L1739181-20	PF-2-GW-400-20240521
L1739181-21	TTU-10-GW-172-20240521
L1739181-22	TTU-4-GW-57-20240521
L1739181-23	TTU-3-GW-108-20240521
L1739181-24	TTU-6-GW-143-20240521
L1739181-25	TTU-7-GW-345-20240521
L1739181-26	TTU-8-GW-164-20240521
L1739181-27	TB-20240520
L1739181-28	TB-20240521
L1739181-29	TTU-19-GW-73-20240520
L1739181-30	TTU-11-GW-73-20240520
550-219349-1	PF-02-GW-400-20240606

The samples were received at Pace at 0.2 degrees Celsius (ºC) and 4.6ºC, and at Eurofins Phoenix at 2.8ºC, meeting the QAPP criteria of approximately 4ºC, based on professional and technical judgment. No sample preservation issues were noted by the laboratory.

It was observed by the laboratory's sample receiving team that samples TTU-19-GW-73-20240520 and TTU-11-GW-73-20240520 were inadvertently left off the COC in laboratory report L1739181. The laboratory was then instructed by Geosyntec's project management team to analyze these samples for all methods.

1.0 Perchlorate

The samples were analyzed for perchlorate by USEPA Methods 314.0 and 314.0 (modified).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The perchlorate data reported in these laboratory reports are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for the sample sets is 100%.

1.2 Holding Times

The holding time for the perchlorate analysis of an aqueous sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven method blanks were reported (six each in modified Method 314.0 batches WG2291776, WG2291777, WG2291780, and WG2293450, and one in Method 314.0 batch 322562). Perchlorate was not detected in the method blanks at or above the reporting limit (RL).

1.4 Matrix Spike/Matrix Spike Duplicate

Six sample set specific MS/MSD pairs were reported for modified Method 314.0, using samples TTU-EX-5-GW-80-20240520, TTU-3-GW-108-20240521, TTU-6-GW-143-20240521, TTU-7-GW-345-20240521, TTU-8-GW-164-20240521, and TTU-19-GW-73-20240520. Three sample set specific MSs were reported for modified Method 314.0, using the following samples PF-2-GW-400-20240521, TTU-10-GW-172-20240521, and TTU-4-GW-57-20240521.The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recovery of perchlorate in MS/MSD pair using sample PF-2-GW-400-20240521 was low and outside the laboratory specified acceptance criteria. Therefore, the non-detect perchlorate result in the associated sample, PF-2-GW-400-20240521 was UJ qualified as estimated less than the RL.

The MS recoveries of perchlorate in the MS/MSD pair using samples TTU-6-GW-143-20240521, TTU-7-GW-345-20240521, and TTU-8-GW-164-20240521 were high and outside the laboratory specified acceptance criteria. Therefore, the perchlorate concentration in the associated sample, TTU-6-GW-143-20240521 was J+ qualified as estimated with high bias. The non-detect perchlorate results in the associated samples, TTU-7-GW-345-20240521 and TTU-8-GW-164-20240521 were not qualified based on technical and professional judgement.

Sample ID	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
TTU-6-GW-143-20240521	Perchlorate	0.0174	M1	0.0174	J+	4
PF-2-GW-400-20240521	Perchlorate	0.004	U;M2	0.004	UJ	4

mg/L - Milligram per liter
M1 - Matrix spike recovery was high, the method control sample recovery was acceptable.
M2 - Matrix spike recovery was low, the method control sample recovery was acceptable.

Batch sample MSs and MS/MSD pairs were also reported. Since these were batch QC, the results did not impact the data and did not result in qualification of the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported for modified Method 314.0, and two LCS/LCSD pairs and one RL standard (MRL) were reported for Method 314.0. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for modified Method 314.0, using samples TTU-EX-5-GW-80-20240520 and TTU-3-GW-108-20240521. The RPD results were within the laboratory specified acceptance criteria.

Batch sample laboratory duplicates were also reported. Since these were batch QC, the results did not impact the data and did not result in qualification of the data.

1.7 Field Duplicate

Three field duplicates were collected with the sample sets and analyzed for perchlorate: TTU-EX-3-GW-76-20240520-DUP, TTU-14-GW-69-20240520-DUP, and TTU-9A-GW-61-20240520-DUP. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicates and original samples, TTU-EX-3-GW-76-20240520, TTU-14-GW-69-20240520, and TTU-9A-GW-61-20240520, respectively.

The QAPP specifies that field duplicates should be collected and analyzed at a frequency of 10%. Three field duplicates were collected with the twenty-six project samples submitted for perchlorate analysis. Therefore, the QAPP specified field duplicate frequency was met.

1.8 Equipment Blank

Table 2 in the QAPP specifies that equipment blanks should be collected at a rate of one per day when non-dedicated equipment is used, two per quarterly sampling event, and one per weekly or monthly sampling event. No non-dedicated equipment was used for the quarterly sampling event; therefore, equipment blanks were not collected.

1.9 Sensitivity

The samples analyzed by Method 314.0 and modified Method 314.0 were reported to the RL. Elevated non-detect results were reported. The undiluted Method 314.0 and modified Method 314.0 RLs met the Arizona Department of Environmental Quality (ADEQ) Health-Based Guidance Level (HBGL) for perchlorate of 14 µg/L indicated in Table 1 of the QAPP.

1.10 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20%. No discrepancies were identified between the level II reports and the EDDs.

2.0 Volatile Organic Compounds

The samples were analyzed for VOCs per USEPA Method 8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Trip Blank
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The VOC data reported in the laboratory reports are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample sets is 100%.

The internal standard (IS) responses for the samples were reported in the laboratory reports. The IS responses were within the method specified acceptance criteria.

2.2 Holding Times

The holding time for the VOC analysis of preserved water samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches WG2293878, WG2294307, WG2295895, and WG2297775). VOCs were not detected in the method blanks at or above the RLs.

2.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported using samples TTU-EX-5-GW-80-20240520 and TTU-3-GW-108-20240521. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of methylene chloride, trichloroethene, and propene and the RPD of methylene chloride were high and outside the laboratory specified acceptance criteria in the

MS/MSD pair using sample TTU-EX-5-GW-80-20240520. The detected concentration of trichloroethene in the associated sample, TTU-EX-5-GW-80-20240520, was J qualified as estimated. Since these other analytes were not detected in the associated sample, TTU-EX-5-GW-80-20240520, no qualifications were applied to the data.

Sample ID	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (ug/L)	Validation Qualifier	Reason code
TTU-EX-5-GW-80-20240520	Trichloroethene (TCE)	0.003	L1;M1	0.003	J	4,5

mg/L - Milligram per liter
L1 - The associated blank spike recovery was above laboratory acceptance limits.
M1 - Matrix spike recovery was high, the method control sample recovery was acceptable.

A batch sample MS/MSD pair was also reported. Since these were batch QC, the results did not impact the data and did not result in qualification of the data.

MS/MSD pairs were not reported in batches WG2295895 and WG2297775. LCS/LCSD pairs were used to assess precision and accuracy.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCS/LCSD pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of recoveries for carbon tetrachloride, 1,1,1-trichloroethane and trichloroethene high and outside the laboratory specified acceptance criteria in the LCS/LCSD pair in batch WG2293878. Therefore, the trichloroethene concentrations in samples TTU-EX-5-GW-80-20240520 and TTU-15-GW-75-20240520 were J qualified as estimated. Since carbon tetrachloride and 1,1,1-trichloroethane were not detected in the associated samples, no qualifications were applied to the data.

The recoveries for acetone were high and outside the laboratory specified acceptance criteria in the LCS/LCSD pair in batch WG2294307. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

The RPD of acetone was high and outside the laboratory specified acceptance criteria in the LCS/LCSD pair in batch WG2295895. Therefore, the acetone concentration in sample TTU-11-GW-73-20240520 was J qualified as estimated.

Sample ID	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (ug/L)	Validation Qualifier	Reason code
TTU-EX-5-GW-80-20240520	Trichloroethene (TCE)	0.003	0.003	J	0.003	4,5
TTU-15-GW-75-20240520	Trichloroethene (TCE)	0.00352	0.00352	J	0.00352	5
TTU-11-GW-73-20240520	Acetone	1.25	1.25	J	1.25	5

mg/L - Milligram per liter
L1 - Laboratory flag indicating that the associated blank spike recovery was above laboratory acceptance limits
M1 - Matrix spike recovery was high, the method control sample recovery was acceptable.
R7 - Laboratory flag indicating that the LCS/LCSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria

2.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

2.7 Field Duplicate

Three field duplicates were collected with the sample sets and analyzed for VOCs: TTU-EX-3-GW-76-20240520-DUP, TTU-14-GW-69-20240520-DUP, and TTU-9A-GW-61-20240520-DUP. Acceptable precision (RPD $\leq$30%) was demonstrated between the field duplicates and original samples, TTU-EX-3-GW-76-20240520, TTU-14-GW-69-20240520, and TTU-9A-GW-61-20240520, respectively.

The QAPP specifies that field duplicates should be collected and analyzed at a frequency of 10%. Three field duplicates were collected with the twenty-five project samples submitted for VOC analysis. Therefore, the QAPP specified field duplicate frequency was met.

2.8 Trip Blank

Two trip blanks were submitted with the sample set. The QAPP requires a frequency of one trip blank per shipment of VOC samples. Therefore, the QAPP specified trip blank frequency was met. However, per the COC, VOC analyses was requested for only one trip blank, TB-20240520. VOCs were not detected at or above the RLs in the trip blanks.

2.9 Equipment Blank

Table 2 in the QAPP specifies that equipment blanks should be collected at a rate of one per day when non-dedicated equipment is used, two per quarterly sampling event, and one per weekly or monthly sampling event. No non-dedicated equipment was used for the quarterly sampling event; therefore, equipment blanks were not collected.

2.10 Sensitivity

The samples were reported to the Rs. Elevated non-detect results were reported due to the dilutions analyzed. The undiluted trichloroethene RLs met the EPA Maximum Contaminant Level (MCL) for trichloroethene of 5.0 µg/L indicated in Table 1 of the QAPP. There are no site specific technical and regulatory quality standards provided for other VOCs in Table 1 of the QAPP.

2.11 Electronic Data Deliverable Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20%. No discrepancies were identified between the level II reports and the EDDs.

3.0 1,4-Dioxane

The samples were analyzed for 1,4-dioxane per USEPA Method 8260B-SIM.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Trip Blank
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The 1,4-dioxane data reported in the laboratory reports are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample sets is 100%.

The IS responses for the samples were reported in the laboratory reports. The IS responses were within the method specified acceptance criteria.

3.2 Holding Times

The holding time for the 1,4-dioxane analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches WG2293888, WG2293892, WG2294555, and WG2297742). 1,4-Dioxane was not detected in the method blanks at or above the RL.

3.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported using samples TTU-EX-5-GW-80-20240520 and TTU-3-GW-108-20240521. The recovery and RPD results were within the laboratory specified acceptance criteria.

MS/MSD pairs were not reported for batches WG2293892 and WG2297742. LCS/LCSD pairs were used to assess precision and accuracy.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCS/LCSD pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Three field duplicates were collected with the sample sets and analyzed for 1,4-dioxane: TTU-EX-3-GW-76-20240520-DUP, TTU-14-GW-69-20240520-DUP, and TTU-9A-GW-61-20240520-DUP. Acceptable precision (RPD <30%) was demonstrated between the field duplicates and original samples, TTU-EX-3-GW-76-20240520, TTU-14-GW-69-20240520, and TTU-9A-GW-61-20240520, respectively.

The QAPP specifies that field duplicates should be collected and analyzed at a frequency of 10%. Three field duplicates were collected with the twenty-five project samples submitted for perchlorate analysis. Therefore, the QAPP specified field duplicate frequency was met.

3.8 Trip Blank

Two trip blank samples accompanied the 1,4-dioxane samples. However, per the COC, 1,4-dioxane analyses was requested for only one trip blank, TB-20240521. 1,4-dioxane was not detected at or above the RL in the trip blank. No qualifications were applied to the data, but the discrepancy should be noted by the data user.

3.9 Equipment Blank

Table 2 in the QAPP specifies that equipment blanks should be collected at a rate of one per day when non-dedicated equipment is used, two per quarterly sampling event, and one per weekly or monthly sampling event. No non-dedicated equipment was used for the quarterly sampling event; therefore, equipment blanks were not collected.

3.10 Sensitivity

The samples were reported to the RL. No elevated non-detect results were reported. There are no site specific technical and regulatory quality standards provided for 1,4-dioxane in Table 1 of the QAPP.

3.11 Electronic Data Deliverable Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20%. No discrepancies were identified between the level II reports and the EDDs.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U — The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

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

J+ — The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- — The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Extraction or analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits or RPD outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

ATTACHMENT 4

LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Katie Blatchford
Nammo Defense Systems Inc
PO BOX 34299
Mesa, Arizona 85277

Generated 6/18/2024 3:24:05 PM

JOB DESCRIPTION

TTU Quarterly Sampling
Nammo Defense Systems TTU

JOB NUMBER

550-219349-1

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Job Notes

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Authorization

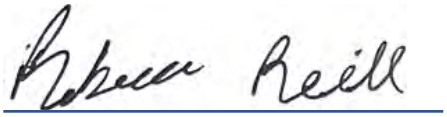

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Table of Contents

Definitions/Glossary

Client: Nammo Defense Systems Inc
Project/Site: TTU Quarterly Sampling

Job ID: 550-219349-1
SDG: Nammo Defense Systems TTU

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.

Glossary

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

Job ID: 550-219349-1 Eurofins Phoenix

Job Narrative
550-219349-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The sample was received on 6/6/2024 1:00 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 time was 2.8°C.

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

Sample Summary

Client: Nammo Defense Systems Inc
Project/Site: TTU Quarterly Sampling

Job ID: 550-219349-1
SDG: Nammo Defense Systems TTU

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-219349-1	PF-02-GW-400-20240606	Drinking Water	06/06/24 12:16	06/06/24 13:00

Detection Summary

Client: Nammo Defense Systems Inc
Project/Site: TTU Quarterly Sampling

Job ID: 550-219349-1
SDG: Nammo Defense Systems TTU

Client Sample ID: PF-02-GW-400-20240606 — Lab Sample ID: 550-219349-1

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Nammo Defense Systems Inc
Project/Site: TTU Quarterly Sampling

Job ID: 550-219349-1
SDG: Nammo Defense Systems TTU

Client Sample ID: PF-02-GW-400-20240606
Date Collected: 06/06/24 12:16
Date Received: 06/06/24 13:00

Lab Sample ID: 550-219349-1
Matrix: Drinking Water

Method: EPA 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0		ug/L			06/17/24 20:05	1

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 550-322562/1002
Matrix: Water
Analysis Batch: 322562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0		ug/L			06/17/24 12:26	1

Lab Sample ID: LCS 550-322562/30
Matrix: Water
Analysis Batch: 322562

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	25.0	26.4		ug/L		105	85 - 115

Lab Sample ID: LCS 550-322562/4
Matrix: Water
Analysis Batch: 322562

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	25.0	26.0		ug/L		104	85 - 115

Lab Sample ID: LCSD 550-322562/31
Matrix: Water
Analysis Batch: 322562

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	25.0	26.1		ug/L		105	85 - 115	1	15

Lab Sample ID: LCSD 550-322562/5
Matrix: Water
Analysis Batch: 322562

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	25.0	25.4		ug/L		102	85 - 115	4	15

Lab Sample ID: MRL 550-322562/1003
Matrix: Water
Analysis Batch: 322562

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	1.00	0.859	E4	ug/L		86	75 - 125

Lab Sample ID: 550-219301-A-27 MS ^10
Matrix: Water
Analysis Batch: 322562

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	19		250	275		ug/L		102	80 - 120

Lab Sample ID: 550-219301-A-27 MSD ^10
Matrix: Water
Analysis Batch: 322562

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	19		250	274		ug/L		102	80 - 120	1	15

QC Association Summary

Client: Nammo Defense Systems Inc
Project/Site: TTU Quarterly Sampling

Job ID: 550-219349-1
SDG: Nammo Defense Systems TTU

HPLC/IC

Analysis Batch: 322562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-219349-1	PF-02-GW-400-20240606	Total/NA	Drinking Water	314.0	
MB 550-322562/1002	Method Blank	Total/NA	Water	314.0	
LCS 550-322562/30	Lab Control Sample	Total/NA	Water	314.0	
LCS 550-322562/4	Lab Control Sample	Total/NA	Water	314.0	
LCSD 550-322562/31	Lab Control Sample Dup	Total/NA	Water	314.0	
LCSD 550-322562/5	Lab Control Sample Dup	Total/NA	Water	314.0	
MRL 550-322562/1003	Lab Control Sample	Total/NA	Water	314.0	
550-219301-A-27 MS ^10	Matrix Spike	Total/NA	Water	314.0	
550-219301-A-27 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	314.0	

Lab Chronicle

Client: Nammo Defense Systems Inc
Project/Site: TTU Quarterly Sampling

Job ID: 550-219349-1
SDG: Nammo Defense Systems TTU

Client Sample ID: PF-02-GW-400-20240606
Date Collected: 06/06/24 12:16
Date Received: 06/06/24 13:00

Lab Sample ID: 550-219349-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	314.0		1	322562	RDC	EET PHX	06/17/24 20:05

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Nammo Defense Systems Inc
Job ID: 550-219349-1
Project/Site: TTU Quarterly Sampling
SDG: Nammo Defense Systems TTU

Laboratory: Eurofins Phoenix

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

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-25

Method Summary

Client: Nammo Defense Systems Inc
Project/Site: TTU Quarterly Sampling

Job ID: 550-219349-1
SDG: Nammo Defense Systems TTU

Method	Method Description	Protocol	Laboratory
314.0	Perchlorate (IC)	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Chain of Custody Record

Eurofins - Phoenix, AZ
4625 E Cotton Center Boulevard
Suite 189
Phoenix, AZ 85040-4807
Phone: 602.437.3340

eurofins Environment Testing America

Eurofins Environment Testing Southwest, LLC

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: 219349

Client Contact	Client Project Manager: Katie Blatchford	Site Contact: Jeff Geiser	Date: 6-6-24	COC No: 1 of 1 COCs
Company: Nammo Defense Systems	Email: kblatchford@nammo.us	Lab Contact: Emily Petrunia	Carrier:	TALS Project #:
Address: 4051 N Higley Rd	Analysis Turnaround Time			Sampler: Jeff Geiser
City, State, Zip: Mesa, Arizona 85215	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 480-898-2436	TAT if different from Below _Standard X			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project: TTU Quarterly Sampling	☐ 1 week			
Site: Nammo Defense Systems TTU	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Tel/Fax: 480-898-2436

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Perchlorate for Drinking water by Method 314.0		Sample Specific Notes:
PF-02-GW-400-20240606	6-6-24	1216	G	DW	1	N	N	x	-01	

550-219349 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _See bottles/bottle order_ | 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste?
Please List any EPA Waste Codes for the sample in the
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for________ Months

Special Instructions/QC Requirements & Comments:
2.8°c/1.cEl CRO

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:______ Corr'd:______	Therm ID No.:______

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jeff Geiser	BlueWorld	6-6-24 1300			
Relinquished by:	**Company:**	**Date/Time:**	**Received by:**	**Company:**	**Date/Time:**
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: EETA PHX	Date/Time: 6/6/24 1300

Login Sample Receipt Checklist

Client: Nammo Defense Systems Inc

Job Number: 550-219349-1
SDG Number: Nammo Defense Systems TTU

Login Number: 219349
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.

ANALYTICAL REPORT

June 04, 2024

Nammo Defense Systems

Sample Delivery Group:	L1739181
Samples Received:	05/22/2024
Project Number:	
Description:	
Site:	NDS TTU
Report To:	Kate Blatchford 4051 N. Higley Rd Mesa, AZ 85215

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

SAMPLE SUMMARY

TTU-5-GW-110-20240520 L1739181-01 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 09:28 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291776	1	05/26/24 09:10	05/26/24 09:10	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 06:02	05/28/24 06:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293888	1	05/27/24 19:27	05/27/24 19:27	DYW	Mt. Juliet, TN

TTU-EX-5-GW-80-20240520 L1739181-02 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 09:52 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291776	1	05/26/24 09:38	05/26/24 09:38	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 06:23	05/28/24 06:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293888	1	05/27/24 19:49	05/27/24 19:49	DYW	Mt. Juliet, TN

TTU-EX-4-GW-77-20240520 L1739181-03 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 10:49 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291776	5000	05/29/24 00:43	05/29/24 00:43	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 06:43	05/28/24 06:43	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	25	06/03/24 22:44	06/03/24 22:44	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2297742	1	06/03/24 15:00	06/03/24 15:00	JAH	Mt. Juliet, TN

TTU-EX-3-GW-76-20240520 L1739181-04 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 11:12 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291776	10000	05/29/24 01:10	05/29/24 01:10	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 07:04	05/28/24 07:04	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	250	06/03/24 23:05	06/03/24 23:05	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 11:28	05/28/24 11:28	JAH	Mt. Juliet, TN

TTU-EX-3-GW-76-20240520-DUP L1739181-05 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 11:12 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291776	10000	05/29/24 01:38	05/29/24 01:38	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 07:25	05/28/24 07:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	250	06/03/24 23:26	06/03/24 23:26	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 11:50	05/28/24 11:50	JAH	Mt. Juliet, TN

TTU-EX-2-GW-74-20240520 L1739181-06 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 11:35 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	5000	05/29/24 20:38	05/29/24 20:38	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 07:46	05/28/24 07:46	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	20	06/03/24 23:48	06/03/24 23:48	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 12:12	05/28/24 12:12	JAH	Mt. Juliet, TN

TTU-EX-1-GW-69-20240520 L1739181-07 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 11:54 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	1000	05/29/24 21:06	05/29/24 21:06	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 08:07	05/28/24 08:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	10	06/04/24 00:09	06/04/24 00:09	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 12:34	05/28/24 12:34	JAH	Mt. Juliet, TN

TTU-17-GW-80-20240520 L1739181-08 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 12:25 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	1	05/29/24 21:34	05/29/24 21:34	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 08:27	05/28/24 08:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	1	06/03/24 19:57	06/03/24 19:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 12:56	05/28/24 12:56	JAH	Mt. Juliet, TN

TTU-15-GW-75-20240520 L1739181-09 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 13:10 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	500	05/29/24 22:02	05/29/24 22:02	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 08:48	05/28/24 08:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 13:18	05/28/24 13:18	JAH	Mt. Juliet, TN

TTU-16-GW-80-20240520 L1739181-10 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 13:25 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	50000	05/29/24 22:30	05/29/24 22:30	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	10	05/28/24 12:37	05/28/24 12:37	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	2500	06/04/24 00:30	06/04/24 00:30	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2297742	10	06/03/24 13:31	06/03/24 13:31	JAH	Mt. Juliet, TN

TTU-12-GW-82-20240520 L1739181-11 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 14:32 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	5000	05/29/24 22:58	05/29/24 22:58	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 09:09	05/28/24 09:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	20	06/04/24 00:51	06/04/24 00:51	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2297742	5	06/03/24 13:09	06/03/24 13:09	JAH	Mt. Juliet, TN

TTU-14-GW-69-20240520 L1739181-12 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 14:53 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	5000	05/30/24 00:22	05/30/24 00:22	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 09:30	05/28/24 09:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	50	06/04/24 01:11	06/04/24 01:11	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 14:24	05/28/24 14:24	JAH	Mt. Juliet, TN

TTU-14-GW-69-20240520-DUP L1739181-13 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 14:53 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	5000	05/30/24 00:50	05/30/24 00:50	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 09:51	05/28/24 09:51	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	50	06/04/24 01:32	06/04/24 01:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 14:46	05/28/24 14:46	JAH	Mt. Juliet, TN

TTU-13-GW-51-20240520 L1739181-14 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 15:15 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	500	05/30/24 01:17	05/30/24 01:17	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 10:12	05/28/24 10:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	1	06/03/24 20:18	06/03/24 20:18	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 15:07	05/28/24 15:07	JAH	Mt. Juliet, TN

TTU-9A-GW-61-20240520 L1739181-15 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 15:34 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	5	05/29/24 10:42	05/29/24 10:42	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 10:32	05/28/24 10:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	1	06/03/24 20:39	06/03/24 20:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 15:29	05/28/24 15:29	JAH	Mt. Juliet, TN

TTU-9A-GW-61-20240520-DUP L1739181-16 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 15:34 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291777	5	05/29/24 11:10	05/29/24 11:10	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 10:53	05/28/24 10:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	1	06/03/24 21:00	06/03/24 21:00	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 15:50	05/28/24 15:50	JAH	Mt. Juliet, TN

TTU-20-GW-73-20240521 L1739181-17 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 09:00 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291780	5000	06/02/24 01:47	06/02/24 01:47	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 11:14	05/28/24 11:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	100	06/04/24 01:53	06/04/24 01:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 16:12	05/28/24 16:12	JAH	Mt. Juliet, TN

TTU-2-GW-114-20240521 L1739181-18 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 09:55 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291780	5000	06/02/24 02:15	06/02/24 02:15	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 11:35	05/28/24 11:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	25	06/04/24 02:14	06/04/24 02:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 16:34	05/28/24 16:34	JAH	Mt. Juliet, TN

TTU-1-GW-50-20240521 L1739181-19 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 10:27 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291780	500	06/02/24 02:43	06/02/24 02:43	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 11:56	05/28/24 11:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	1	06/03/24 21:21	06/03/24 21:21	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 16:56	05/28/24 16:56	JAH	Mt. Juliet, TN

PF-2-GW-400-20240521 L1739181-20 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 12:03 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291780	1	05/31/24 03:04	05/31/24 03:04	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2293878	1	05/28/24 12:17	05/28/24 12:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2297775	1	06/03/24 21:42	06/03/24 21:42	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 17:18	05/28/24 17:18	JAH	Mt. Juliet, TN

TTU-10-GW-172-20240521 L1739181-21 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 12:25 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291780	1	05/31/24 03:59	05/31/24 03:59	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 17:02	05/28/24 17:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 17:40	05/28/24 17:40	JAH	Mt. Juliet, TN

TTU-4-GW-57-20240521 L1739181-22 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 12:47 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291780	1	05/31/24 04:54	05/31/24 04:54	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 17:25	05/28/24 17:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2293892	1	05/28/24 18:02	05/28/24 18:02	JAH	Mt. Juliet, TN

TTU-3-GW-108-20240521 L1739181-23 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 13:04 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2291780	5	06/02/24 03:11	06/02/24 03:11	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 17:48	05/28/24 17:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2294555	1	05/29/24 00:00	05/29/24 00:00	DWR	Mt. Juliet, TN

TTU-6-GW-143-20240521 L1739181-24 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 13:58 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2293450	1	05/29/24 03:00	05/29/24 03:00	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 18:11	05/28/24 18:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2294555	1	05/29/24 00:22	05/29/24 00:22	DWR	Mt. Juliet, TN

TTU-7-GW-345-20240521 L1739181-25 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 13:38 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2293450	1	05/29/24 15:11	05/29/24 15:11	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 18:33	05/28/24 18:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2294555	1	05/29/24 00:53	05/29/24 00:53	DWR	Mt. Juliet, TN

TTU-8-GW-164-20240521 L1739181-26 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 14:16 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2293450	1	05/29/24 16:06	05/29/24 16:06	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 18:56	05/28/24 18:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2294555	1	05/29/24 01:15	05/29/24 01:15	DWR	Mt. Juliet, TN

TB-20240520 L1739181-27 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 09:28 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 15:09	05/28/24 15:09	ACG	Mt. Juliet, TN

TB-20240521 L1739181-28 GW

Collected by: Ryan Ayala | Collected date/time: 05/21/24 09:00 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2294555	1	05/28/24 22:54	05/28/24 22:54	DWR	Mt. Juliet, TN

TTU-19-GW-73-20240520 L1739181-29 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 13:55 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2293450	1	05/29/24 03:55	05/29/24 03:55	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 19:19	05/28/24 19:19	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2294555	1	05/29/24 01:37	05/29/24 01:37	DWR	Mt. Juliet, TN

TTU-11-GW-73-20240520 L1739181-30 GW

Collected by: Ryan Ayala | Collected date/time: 05/20/24 14:03 | Received date/time: 05/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG2293450	1	05/27/24 08:02	05/27/24 08:02	ASM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2294307	1	05/28/24 19:41	05/28/24 19:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2295895	10	05/31/24 00:56	05/31/24 00:56	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG2294555	1	05/29/24 01:58	05/29/24 01:58	DWR	Mt. Juliet, TN

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

Insufficient sample volume to perform MS/MSD analyses per method QC requirements.

Lab Sample ID	Project Sample ID	Method
L1739181-03	TTU-EX-4-GW-77-20240520	8260B-SIM, 8260B
L1739181-04	TTU-EX-3-GW-76-20240520	8260B, 8260B-SIM
L1739181-05	TTU-EX-3-GW-76-20240520-DUP	8260B, 8260B-SIM
L1739181-06	TTU-EX-2-GW-74-20240520	8260B-SIM, 8260B
L1739181-07	TTU-EX-1-GW-69-20240520	8260B, 8260B-SIM
L1739181-08	TTU-17-GW-80-20240520	8260B-SIM, 8260B
L1739181-09	TTU-15-GW-75-20240520	8260B-SIM
L1739181-10	TTU-16-GW-80-20240520	8260B, 8260B-SIM
L1739181-11	TTU-12-GW-82-20240520	8260B, 8260B-SIM
L1739181-12	TTU-14-GW-69-20240520	8260B, 8260B-SIM
L1739181-13	TTU-14-GW-69-20240520-DUP	8260B, 8260B-SIM
L1739181-14	TTU-13-GW-51-20240520	8260B, 8260B-SIM
L1739181-15	TTU-9A-GW-61-20240520	8260B-SIM, 8260B
L1739181-16	TTU-9A-GW-61-20240520-DUP	8260B, 8260B-SIM
L1739181-17	TTU-20-GW-73-20240521	8260B, 8260B-SIM
L1739181-18	TTU-2-GW-114-20240521	8260B, 8260B-SIM
L1739181-19	TTU-1-GW-50-20240521	8260B-SIM, 8260B
L1739181-20	PF-2-GW-400-20240521	8260B-SIM, 8260B
L1739181-21	TTU-10-GW-172-20240521	8260B-SIM
L1739181-22	TTU-4-GW-57-20240521	8260B-SIM
L1739181-30	TTU-11-GW-73-20240520	8260B

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	0.0387		0.00400	1	05/26/2024 09:10	WG2291776

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 06:02	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 06:02	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 06:02	WG2293878
Benzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 06:02	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 06:02	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 06:02	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 06:02	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 06:02	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 06:02	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 06:02	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 06:02	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 06:02	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 06:02	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 06:02	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 06:02	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 06:02	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 06:02	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 06:02	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 06:02	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 06:02	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 06:02	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 06:02	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 06:02	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 06:02	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 06:02	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 06:02	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 06:02	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 06:02	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 06:02	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 06:02	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 06:02	WG2293878
Propene	ND		0.00250	1	05/28/2024 06:02	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Styrene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Toluene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 06:02	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 06:02	WG2293878
Trichloroethene	ND	L1	0.00100	1	05/28/2024 06:02	WG2293878
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 06:02	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 06:02	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:02	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 06:02	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 06:02	WG2293878
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 06:02*	WG2293878
(S) 4-Bromofluorobenzene	*108*		*77.0-126*		*05/28/2024 06:02*	WG2293878
(S) 1,2-Dichloroethane-d4	*119*		*70.0-130*		*05/28/2024 06:02*	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/27/2024 19:27	WG2293888
(S) Toluene-d8	*110*		*77.0-127*		*05/27/2024 19:27*	WG2293888

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND		0.00400	1	05/26/2024 09:38	WG2291776

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 06:23	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 06:23	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 06:23	WG2293878
Benzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 06:23	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 06:23	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 06:23	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 06:23	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 06:23	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 06:23	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 06:23	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 06:23	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 06:23	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 06:23	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 06:23	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 06:23	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 06:23	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 06:23	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 06:23	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 06:23	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 06:23	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 06:23	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 06:23	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 06:23	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 06:23	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 06:23	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 06:23	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 06:23	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND	M1 R5	0.00500	1	05/28/2024 06:23	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 06:23	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 06:23	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 06:23	WG2293878
Propene	ND	M1	0.00250	1	05/28/2024 06:23	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Styrene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Toluene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 06:23	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 06:23	WG2293878
Trichloroethene	0.00300	L1 M1	0.00100	1	05/28/2024 06:23	WG2293878
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 06:23	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 06:23	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:23	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 06:23	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 06:23	WG2293878
(S) Toluene-d8	*106*		*80.0-120*		*05/28/2024 06:23*	WG2293878
(S) 4-Bromofluorobenzene	*107*		*77.0-126*		*05/28/2024 06:23*	WG2293878
(S) 1,2-Dichloroethane-d4	*122*		*70.0-130*		*05/28/2024 06:23*	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/27/2024 19:49	WG2293888
(S) Toluene-d8	*109*		*77.0-127*		*05/27/2024 19:49*	WG2293888

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	88.3		20.0	5000	05/29/2024 00:43	WG2291776

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 06:43	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 06:43	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 06:43	WG2293878
Benzene	0.00105		0.00100	1	05/28/2024 06:43	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 06:43	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 06:43	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 06:43	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 06:43	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 06:43	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 06:43	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 06:43	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 06:43	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 06:43	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 06:43	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 06:43	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 06:43	WG2293878
1,1-Dichloroethane	0.00138		0.00100	1	05/28/2024 06:43	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,1-Dichloroethene	0.115		0.00100	1	05/28/2024 06:43	WG2293878
cis-1,2-Dichloroethene	0.00243		0.00100	1	05/28/2024 06:43	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 06:43	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 06:43	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 06:43	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 06:43	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 06:43	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 06:43	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 06:43	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 06:43	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 06:43	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 06:43	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 06:43	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 06:43	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 06:43	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 06:43	WG2293878
Propene	ND		0.00250	1	05/28/2024 06:43	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Styrene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
Tetrachloroethene	0.00131		0.00100	1	05/28/2024 06:43	WG2293878
Toluene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 06:43	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 06:43	WG2293878
Trichloroethene	0.677		0.0250	25	06/03/2024 22:44	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 06:43	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 06:43	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 06:43	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 06:43	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 06:43	WG2293878
(S) Toluene-d8	*107*		*80.0-120*		*05/28/2024 06:43*	WG2293878
(S) Toluene-d8	*101*		*80.0-120*		*06/03/2024 22:44*	WG2297775
(S) 4-Bromofluorobenzene	*107*		*77.0-126*		*05/28/2024 06:43*	WG2293878
(S) 4-Bromofluorobenzene	*105*		*77.0-126*		*06/03/2024 22:44*	WG2297775
(S) 1,2-Dichloroethane-d4	*119*		*70.0-130*		*05/28/2024 06:43*	WG2293878
(S) 1,2-Dichloroethane-d4	*125*		*70.0-130*		*06/03/2024 22:44*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.0155		0.00300	1	06/03/2024 15:00	WG2297742
(S) Toluene-d8	*114*		*77.0-127*		*06/03/2024 15:00*	WG2297742

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	511		40.0	10000	05/29/2024 01:10	WG2291776

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 07:04	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 07:04	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 07:04	WG2293878
Benzene	0.0148		0.00100	1	05/28/2024 07:04	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 07:04	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 07:04	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 07:04	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 07:04	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 07:04	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 07:04	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 07:04	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 07:04	WG2293878
Chloroform	0.0133		0.00500	1	05/28/2024 07:04	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 07:04	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 07:04	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 07:04	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 07:04	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 07:04	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 07:04	WG2293878
1,1-Dichloroethane	0.0114		0.00100	1	05/28/2024 07:04	WG2293878
1,2-Dichloroethane	0.00165		0.00100	1	05/28/2024 07:04	WG2293878
1,1-Dichloroethene	1.01		0.250	250	06/03/2024 23:05	WG2297775
cis-1,2-Dichloroethene	0.00298		0.00100	1	05/28/2024 07:04	WG2293878
trans-1,2-Dichloroethene	0.00209		0.00100	1	05/28/2024 07:04	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 07:04	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 07:04	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 07:04	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 07:04	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 07:04	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 07:04	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 07:04	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 07:04	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 07:04	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 07:04	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 07:04	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 07:04	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 07:04	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 07:04	WG2293878
Propene	ND		0.00250	1	05/28/2024 07:04	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Styrene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 07:04	WG2293878
Tetrachloroethene	0.0138		0.00100	1	05/28/2024 07:04	WG2293878
Toluene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 07:04	WG2293878
1,1,2-Trichloroethane	0.00982		0.00100	1	05/28/2024 07:04	WG2293878
Trichloroethene	7.32		0.250	250	06/03/2024 23:05	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 07:04	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 07:04	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:04	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 07:04	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 07:04	WG2293878
(S) Toluene-d8	*106*		*80.0-120*		*05/28/2024 07:04*	WG2293878
(S) Toluene-d8	*102*		*80.0-120*		*06/03/2024 23:05*	WG2297775
(S) 4-Bromofluorobenzene	*110*		*77.0-126*		*05/28/2024 07:04*	WG2293878
(S) 4-Bromofluorobenzene	*99.9*		*77.0-126*		*06/03/2024 23:05*	WG2297775
(S) 1,2-Dichloroethane-d4	*117*		*70.0-130*		*05/28/2024 07:04*	WG2293878
(S) 1,2-Dichloroethane-d4	*123*		*70.0-130*		*06/03/2024 23:05*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.517		0.00300	1	05/28/2024 11:28	WG2293892
(S) Toluene-d8	*112*		*77.0-127*		*05/28/2024 11:28*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	537		40.0	10000	05/29/2024 01:38	WG2291776

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 07:25	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 07:25	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 07:25	WG2293878
Benzene	0.0119		0.00100	1	05/28/2024 07:25	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 07:25	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 07:25	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 07:25	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 07:25	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 07:25	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 07:25	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 07:25	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 07:25	WG2293878
Chloroform	0.0115		0.00500	1	05/28/2024 07:25	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 07:25	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 07:25	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 07:25	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 07:25	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 07:25	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 07:25	WG2293878
1,1-Dichloroethane	0.00936		0.00100	1	05/28/2024 07:25	WG2293878
1,2-Dichloroethane	0.00171		0.00100	1	05/28/2024 07:25	WG2293878
1,1-Dichloroethene	0.975		0.250	250	06/03/2024 23:26	WG2297775
cis-1,2-Dichloroethene	0.00299		0.00100	1	05/28/2024 07:25	WG2293878
trans-1,2-Dichloroethene	0.00223		0.00100	1	05/28/2024 07:25	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 07:25	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 07:25	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 07:25	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 07:25	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 07:25	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 07:25	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 07:25	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 07:25	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 07:25	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 07:25	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 07:25	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 07:25	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 07:25	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 07:25	WG2293878
Propene	ND		0.00250	1	05/28/2024 07:25	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Styrene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 07:25	WG2293878
Tetrachloroethene	0.0117		0.00100	1	05/28/2024 07:25	WG2293878
Toluene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 07:25	WG2293878
1,1,2-Trichloroethane	0.0101		0.00100	1	05/28/2024 07:25	WG2293878
Trichloroethene	7.07		0.250	250	06/03/2024 23:26	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 07:25	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 07:25	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:25	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 07:25	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 07:25	WG2293878
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 07:25*	WG2293878
(S) Toluene-d8	*98.9*		*80.0-120*		*06/03/2024 23:26*	WG2297775
(S) 4-Bromofluorobenzene	*112*		*77.0-126*		*05/28/2024 07:25*	WG2293878
(S) 4-Bromofluorobenzene	*103*		*77.0-126*		*06/03/2024 23:26*	WG2297775
(S) 1,2-Dichloroethane-d4	*116*		*70.0-130*		*05/28/2024 07:25*	WG2293878
(S) 1,2-Dichloroethane-d4	*127*		*70.0-130*		*06/03/2024 23:26*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.676		0.00300	1	05/28/2024 11:50	WG2293892
(S) Toluene-d8	*112*		*77.0-127*		*05/28/2024 11:50*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	75.7		20.0	5000	05/29/2024 20:38	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 07:46	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 07:46	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 07:46	WG2293878
Benzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 07:46	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 07:46	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 07:46	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 07:46	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 07:46	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 07:46	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 07:46	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 07:46	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 07:46	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 07:46	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 07:46	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 07:46	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,1-Dichloroethene	0.114		0.00100	1	05/28/2024 07:46	WG2293878
cis-1,2-Dichloroethene	0.00116		0.00100	1	05/28/2024 07:46	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 07:46	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 07:46	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 07:46	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 07:46	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 07:46	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 07:46	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 07:46	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 07:46	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 07:46	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 07:46	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 07:46	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 07:46	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 07:46	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 07:46	WG2293878
Propene	ND		0.00250	1	05/28/2024 07:46	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Styrene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 07:46	WG2293878
Tetrachloroethene	0.00138		0.00100	1	05/28/2024 07:46	WG2293878
Toluene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 07:46	WG2293878
1,1,2-Trichloroethane	0.00162		0.00100	1	05/28/2024 07:46	WG2293878
Trichloroethene	0.375		0.0200	20	06/03/2024 23:48	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 07:46	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 07:46	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 07:46	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 07:46	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 07:46	WG2293878
(S) Toluene-d8	*108*		*80.0-120*		*05/28/2024 07:46*	WG2293878
(S) Toluene-d8	*96.4*		*80.0-120*		*06/03/2024 23:48*	WG2297775
(S) 4-Bromofluorobenzene	*110*		*77.0-126*		*05/28/2024 07:46*	WG2293878
(S) 4-Bromofluorobenzene	*101*		*77.0-126*		*06/03/2024 23:48*	WG2297775
(S) 1,2-Dichloroethane-d4	*118*		*70.0-130*		*05/28/2024 07:46*	WG2293878
(S) 1,2-Dichloroethane-d4	*125*		*70.0-130*		*06/03/2024 23:48*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.223		0.00300	1	05/28/2024 12:12	WG2293892
(S) Toluene-d8	*114*		*77.0-127*		*05/28/2024 12:12*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	82.0		4.00	1000	05/29/2024 21:06	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 08:07	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 08:07	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 08:07	WG2293878
Benzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 08:07	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 08:07	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 08:07	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 08:07	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 08:07	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 08:07	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 08:07	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 08:07	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 08:07	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 08:07	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 08:07	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 08:07	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,1-Dichloroethene	0.150		0.00100	1	05/28/2024 08:07	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 08:07	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 08:07	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 08:07	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 08:07	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 08:07	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 08:07	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 08:07	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 08:07	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 08:07	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 08:07	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 08:07	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 08:07	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 08:07	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 08:07	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 08:07	WG2293878
Propene	ND		0.00250	1	05/28/2024 08:07	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Styrene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 08:07	WG2293878
Tetrachloroethene	0.00123		0.00100	1	05/28/2024 08:07	WG2293878
Toluene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 08:07	WG2293878
1,1,2-Trichloroethane	0.00126		0.00100	1	05/28/2024 08:07	WG2293878
Trichloroethene	0.226		0.0100	10	06/04/2024 00:09	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 08:07	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 08:07	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:07	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 08:07	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 08:07	WG2293878
(S) Toluene-d8	*106*		*80.0-120*		*05/28/2024 08:07*	WG2293878
(S) Toluene-d8	*99.2*		*80.0-120*		*06/04/2024 00:09*	WG2297775
(S) 4-Bromofluorobenzene	*108*		*77.0-126*		*05/28/2024 08:07*	WG2293878
(S) 4-Bromofluorobenzene	*103*		*77.0-126*		*06/04/2024 00:09*	WG2297775
(S) 1,2-Dichloroethane-d4	*117*		*70.0-130*		*05/28/2024 08:07*	WG2293878
(S) 1,2-Dichloroethane-d4	*129*		*70.0-130*		*06/04/2024 00:09*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.293		0.00300	1	05/28/2024 12:34	WG2293892
(S) Toluene-d8	*114*		*77.0-127*		*05/28/2024 12:34*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	0.0265		0.00400	1	05/29/2024 21:34	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 08:27	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 08:27	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 08:27	WG2293878
Benzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 08:27	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 08:27	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 08:27	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 08:27	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 08:27	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 08:27	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 08:27	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 08:27	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 08:27	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 08:27	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 08:27	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 08:27	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 08:27	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 08:27	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 08:27	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 08:27	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 08:27	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 08:27	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 08:27	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 08:27	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 08:27	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 08:27	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 08:27	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 08:27	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 08:27	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 08:27	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 08:27	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 08:27	WG2293878
Propene	ND		0.00250	1	05/28/2024 08:27	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Styrene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Toluene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 08:27	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 08:27	WG2293878
Trichloroethene	ND		0.00100	1	06/03/2024 19:57	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 08:27	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 08:27	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:27	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 08:27	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 08:27	WG2293878
(S) Toluene-d8	*103*		*80.0-120*		*05/28/2024 08:27*	WG2293878
(S) Toluene-d8	*102*		*80.0-120*		*06/03/2024 19:57*	WG2297775
(S) 4-Bromofluorobenzene	*108*		*77.0-126*		*05/28/2024 08:27*	WG2293878
(S) 4-Bromofluorobenzene	*104*		*77.0-126*		*06/03/2024 19:57*	WG2297775
(S) 1,2-Dichloroethane-d4	*118*		*70.0-130*		*05/28/2024 08:27*	WG2293878
(S) 1,2-Dichloroethane-d4	*124*		*70.0-130*		*06/03/2024 19:57*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.00875		0.00300	1	05/28/2024 12:56	WG2293892
(S) Toluene-d8	*111*		*77.0-127*		*05/28/2024 12:56*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	9.10		2.00	500	05/29/2024 22:02	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 08:48	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 08:48	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 08:48	WG2293878
Benzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 08:48	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 08:48	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 08:48	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 08:48	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 08:48	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 08:48	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 08:48	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 08:48	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 08:48	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 08:48	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 08:48	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 08:48	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,1-Dichloroethene	0.00105		0.00100	1	05/28/2024 08:48	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 08:48	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 08:48	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 08:48	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 08:48	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 08:48	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 08:48	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 08:48	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 08:48	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 08:48	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 08:48	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 08:48	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 08:48	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 08:48	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 08:48	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 08:48	WG2293878
Propene	ND		0.00250	1	05/28/2024 08:48	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Styrene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Toluene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 08:48	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 08:48	WG2293878
Trichloroethene	0.00352	L1	0.00100	1	05/28/2024 08:48	WG2293878
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 08:48	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 08:48	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 08:48	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 08:48	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 08:48	WG2293878
(S) Toluene-d8	*106*		*80.0-120*		*05/28/2024 08:48*	WG2293878
(S) 4-Bromofluorobenzene	*111*		*77.0-126*		*05/28/2024 08:48*	WG2293878
(S) 1,2-Dichloroethane-d4	*116*		*70.0-130*		*05/28/2024 08:48*	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.00670		0.00300	1	05/28/2024 13:18	WG2293892
(S) Toluene-d8	*110*		*77.0-127*		*05/28/2024 13:18*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	660		200	50000	05/29/2024 22:30	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.500	10	05/28/2024 12:37	WG2293878
Acrolein	ND		0.500	10	05/28/2024 12:37	WG2293878
Acrylonitrile	ND		0.100	10	05/28/2024 12:37	WG2293878
Benzene	0.248		0.0100	10	05/28/2024 12:37	WG2293878
Bromobenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Bromodichloromethane	ND		0.0100	10	05/28/2024 12:37	WG2293878
Bromoform	ND		0.0100	10	05/28/2024 12:37	WG2293878
Bromomethane	ND		0.0500	10	05/28/2024 12:37	WG2293878
1,3-Butadiene	ND		0.0200	10	05/28/2024 12:37	WG2293878
n-Butylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
sec-Butylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
tert-Butylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Carbon tetrachloride	ND	L1	0.0100	10	05/28/2024 12:37	WG2293878
Carbon disulfide	ND		0.0100	10	05/28/2024 12:37	WG2293878
Chlorobenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Chlorodibromomethane	ND		0.0100	10	05/28/2024 12:37	WG2293878
Chloroethane	ND		0.0500	10	05/28/2024 12:37	WG2293878
Chloroform	0.0767		0.0500	10	05/28/2024 12:37	WG2293878
Chloromethane	ND		0.0250	10	05/28/2024 12:37	WG2293878
Cyclohexane	ND		0.0100	10	05/28/2024 12:37	WG2293878
2-Chlorotoluene	ND		0.0100	10	05/28/2024 12:37	WG2293878
4-Chlorotoluene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.0500	10	05/28/2024 12:37	WG2293878
1,2-Dibromoethane	ND		0.0100	10	05/28/2024 12:37	WG2293878
Dibromomethane	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,2-Dichlorobenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,3-Dichlorobenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,4-Dichlorobenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Dichlorodifluoromethane	ND		0.0500	10	05/28/2024 12:37	WG2293878
1,1-Dichloroethane	0.0516		0.0100	10	05/28/2024 12:37	WG2293878
1,2-Dichloroethane	0.0299		0.0100	10	05/28/2024 12:37	WG2293878
1,1-Dichloroethene	3.20		2.50	2500	06/04/2024 00:30	WG2297775
cis-1,2-Dichloroethene	0.0131		0.0100	10	05/28/2024 12:37	WG2293878
trans-1,2-Dichloroethene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,2-Dichloropropane	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,1-Dichloropropene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,3-Dichloropropane	ND		0.0100	10	05/28/2024 12:37	WG2293878
cis-1,3-Dichloropropene	ND		0.0100	10	05/28/2024 12:37	WG2293878
trans-1,3-Dichloropropene	ND		0.0100	10	05/28/2024 12:37	WG2293878
2,2-Dichloropropane	ND		0.0100	10	05/28/2024 12:37	WG2293878
Dicyclopentadiene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Di-isopropyl ether	ND		0.0100	10	05/28/2024 12:37	WG2293878
Ethylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
4-Ethyltoluene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Hexachloro-1,3-butadiene	ND		0.0100	10	05/28/2024 12:37	WG2293878
n-Hexane	ND		0.100	10	05/28/2024 12:37	WG2293878
Isopropylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
p-Isopropyltoluene	ND		0.0100	10	05/28/2024 12:37	WG2293878
2-Butanone (MEK)	ND		0.100	10	05/28/2024 12:37	WG2293878
Methyl Cyclohexane	ND		0.0100	10	05/28/2024 12:37	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	60.8		12.5	2500	06/04/2024 00:30	WG2297775
4-Methyl-2-pentanone (MIBK)	ND		0.100	10	05/28/2024 12:37	WG2293878
Methyl tert-butyl ether	ND		0.0100	10	05/28/2024 12:37	WG2293878
Naphthalene	ND		0.0500	10	05/28/2024 12:37	WG2293878
Propene	ND		0.0250	10	05/28/2024 12:37	WG2293878
n-Propylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Styrene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.0100	10	05/28/2024 12:37	WG2293878
Tetrachloroethene	0.0429		0.0100	10	05/28/2024 12:37	WG2293878
Toluene	0.0128		0.0100	10	05/28/2024 12:37	WG2293878
1,2,3-Trichlorobenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,2,4-Trichlorobenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,1,1-Trichloroethane	ND	L1	0.0100	10	05/28/2024 12:37	WG2293878
1,1,2-Trichloroethane	0.0577		0.0100	10	05/28/2024 12:37	WG2293878
Trichloroethene	63.3		2.50	2500	06/04/2024 00:30	WG2297775
Trichlorofluoromethane	ND		0.0500	10	05/28/2024 12:37	WG2293878
1,2,3-Trichloropropane	ND		0.0250	10	05/28/2024 12:37	WG2293878
1,2,4-Trimethylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,2,3-Trimethylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
1,3,5-Trimethylbenzene	ND		0.0100	10	05/28/2024 12:37	WG2293878
Vinyl chloride	ND		0.0100	10	05/28/2024 12:37	WG2293878
Xylenes, Total	0.0620		0.0300	10	05/28/2024 12:37	WG2293878
(S) Toluene-d8	*102*		*80.0-120*		*05/28/2024 12:37*	WG2293878
(S) Toluene-d8	*99.9*		*80.0-120*		*06/04/2024 00:30*	WG2297775
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*05/28/2024 12:37*	WG2293878
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*06/04/2024 00:30*	WG2297775
(S) 1,2-Dichloroethane-d4	*119*		*70.0-130*		*05/28/2024 12:37*	WG2293878
(S) 1,2-Dichloroethane-d4	*126*		*70.0-130*		*06/04/2024 00:30*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	2.74		0.0300	10	06/03/2024 13:31	WG2297742
(S) Toluene-d8	*113*		*77.0-127*		*06/03/2024 13:31*	WG2297742

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 mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	117		20.0	5000	05/29/2024 22:58	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 09:09	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 09:09	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 09:09	WG2293878
Benzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 09:09	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 09:09	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 09:09	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 09:09	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 09:09	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 09:09	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 09:09	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 09:09	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 09:09	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 09:09	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 09:09	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 09:09	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,1-Dichloroethene	0.0771		0.00100	1	05/28/2024 09:09	WG2293878
cis-1,2-Dichloroethene	0.00101		0.00100	1	05/28/2024 09:09	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 09:09	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 09:09	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 09:09	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 09:09	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 09:09	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 09:09	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 09:09	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 09:09	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 09:09	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 09:09	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 09:09	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 09:09	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 09:09	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 09:09	WG2293878
Propene	ND		0.00250	1	05/28/2024 09:09	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Styrene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 09:09	WG2293878
Tetrachloroethene	0.00103		0.00100	1	05/28/2024 09:09	WG2293878
Toluene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 09:09	WG2293878
1,1,2-Trichloroethane	0.00137		0.00100	1	05/28/2024 09:09	WG2293878
Trichloroethene	0.515		0.0200	20	06/04/2024 00:51	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 09:09	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 09:09	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:09	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 09:09	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 09:09	WG2293878
(S) Toluene-d8	*107*		*80.0-120*		*05/28/2024 09:09*	WG2293878
(S) Toluene-d8	*100*		*80.0-120*		*06/04/2024 00:51*	WG2297775
(S) 4-Bromofluorobenzene	*110*		*77.0-126*		*05/28/2024 09:09*	WG2293878
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*06/04/2024 00:51*	WG2297775
(S) 1,2-Dichloroethane-d4	*120*		*70.0-130*		*05/28/2024 09:09*	WG2293878
(S) 1,2-Dichloroethane-d4	*123*		*70.0-130*		*06/04/2024 00:51*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.0997		0.0150	5	06/03/2024 13:09	WG2297742
(S) Toluene-d8	*115*		*77.0-127*		*06/03/2024 13:09*	WG2297742

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 mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	111		20.0	5000	05/30/2024 00:22	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 09:30	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 09:30	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 09:30	WG2293878
Benzene	0.00178		0.00100	1	05/28/2024 09:30	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 09:30	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 09:30	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 09:30	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 09:30	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 09:30	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 09:30	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 09:30	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 09:30	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 09:30	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 09:30	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 09:30	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 09:30	WG2293878
1,1-Dichloroethane	0.00123		0.00100	1	05/28/2024 09:30	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,1-Dichloroethene	0.122		0.00100	1	05/28/2024 09:30	WG2293878
cis-1,2-Dichloroethene	0.00201		0.00100	1	05/28/2024 09:30	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 09:30	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 09:30	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 09:30	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 09:30	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 09:30	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 09:30	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 09:30	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 09:30	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 09:30	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 09:30	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 09:30	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 09:30	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 09:30	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 09:30	WG2293878
Propene	ND		0.00250	1	05/28/2024 09:30	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Styrene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 09:30	WG2293878
Tetrachloroethene	0.00171		0.00100	1	05/28/2024 09:30	WG2293878
Toluene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 09:30	WG2293878
1,1,2-Trichloroethane	0.00190		0.00100	1	05/28/2024 09:30	WG2293878
Trichloroethene	0.763		0.0500	50	06/04/2024 01:11	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 09:30	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 09:30	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:30	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 09:30	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 09:30	WG2293878
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 09:30*	WG2293878
(S) Toluene-d8	*100*		*80.0-120*		*06/04/2024 01:11*	WG2297775
(S) 4-Bromofluorobenzene	*108*		*77.0-126*		*05/28/2024 09:30*	WG2293878
(S) 4-Bromofluorobenzene	*98.1*		*77.0-126*		*06/04/2024 01:11*	WG2297775
(S) 1,2-Dichloroethane-d4	*120*		*70.0-130*		*05/28/2024 09:30*	WG2293878
(S) 1,2-Dichloroethane-d4	*127*		*70.0-130*		*06/04/2024 01:11*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.211		0.00300	1	05/28/2024 14:24	WG2293892
(S) Toluene-d8	*113*		*77.0-127*		*05/28/2024 14:24*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	109		20.0	5000	05/30/2024 00:50	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 09:51	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 09:51	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 09:51	WG2293878
Benzene	0.00174		0.00100	1	05/28/2024 09:51	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 09:51	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 09:51	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 09:51	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 09:51	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 09:51	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 09:51	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 09:51	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 09:51	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 09:51	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 09:51	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 09:51	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 09:51	WG2293878
1,1-Dichloroethane	0.00112		0.00100	1	05/28/2024 09:51	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,1-Dichloroethene	0.122		0.00100	1	05/28/2024 09:51	WG2293878
cis-1,2-Dichloroethene	0.00222		0.00100	1	05/28/2024 09:51	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 09:51	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 09:51	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 09:51	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 09:51	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 09:51	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 09:51	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 09:51	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 09:51	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 09:51	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 09:51	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 09:51	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 09:51	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 09:51	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 09:51	WG2293878
Propene	ND		0.00250	1	05/28/2024 09:51	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Styrene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 09:51	WG2293878
Tetrachloroethene	0.00162		0.00100	1	05/28/2024 09:51	WG2293878
Toluene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 09:51	WG2293878
1,1,2-Trichloroethane	0.00181		0.00100	1	05/28/2024 09:51	WG2293878
Trichloroethene	0.780		0.0500	50	06/04/2024 01:32	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 09:51	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 09:51	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 09:51	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 09:51	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 09:51	WG2293878
(S) Toluene-d8	*107*		*80.0-120*		*05/28/2024 09:51*	WG2293878
(S) Toluene-d8	*99.9*		*80.0-120*		*06/04/2024 01:32*	WG2297775
(S) 4-Bromofluorobenzene	*108*		*77.0-126*		*05/28/2024 09:51*	WG2293878
(S) 4-Bromofluorobenzene	*99.8*		*77.0-126*		*06/04/2024 01:32*	WG2297775
(S) 1,2-Dichloroethane-d4	*115*		*70.0-130*		*05/28/2024 09:51*	WG2293878
(S) 1,2-Dichloroethane-d4	*126*		*70.0-130*		*06/04/2024 01:32*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.221		0.00300	1	05/28/2024 14:46	WG2293892
(S) Toluene-d8	*114*		*77.0-127*		*05/28/2024 14:46*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	21.3		2.00	500	05/30/2024 01:17	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 10:12	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 10:12	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 10:12	WG2293878
Benzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 10:12	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 10:12	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 10:12	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 10:12	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 10:12	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 10:12	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 10:12	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 10:12	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 10:12	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 10:12	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 10:12	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 10:12	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,1-Dichloroethene	0.00451		0.00100	1	05/28/2024 10:12	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 10:12	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 10:12	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 10:12	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 10:12	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 10:12	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 10:12	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 10:12	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 10:12	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 10:12	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 10:12	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 10:12	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 10:12	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 10:12	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 10:12	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 10:12	WG2293878
Propene	ND		0.00250	1	05/28/2024 10:12	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Styrene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Toluene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 10:12	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 10:12	WG2293878
Trichloroethene	0.0117		0.00100	1	06/03/2024 20:18	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 10:12	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 10:12	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:12	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 10:12	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 10:12	WG2293878
(S) Toluene-d8	*107*		*80.0-120*		*05/28/2024 10:12*	WG2293878
(S) Toluene-d8	*101*		*80.0-120*		*06/03/2024 20:18*	WG2297775
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*05/28/2024 10:12*	WG2293878
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*06/03/2024 20:18*	WG2297775
(S) 1,2-Dichloroethane-d4	*119*		*70.0-130*		*05/28/2024 10:12*	WG2293878
(S) 1,2-Dichloroethane-d4	*124*		*70.0-130*		*06/03/2024 20:18*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.0318		0.00300	1	05/28/2024 15:07	WG2293892
(S) Toluene-d8	*114*		*77.0-127*		*05/28/2024 15:07*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND		0.0200	5	05/29/2024 10:42	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 10:32	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 10:32	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 10:32	WG2293878
Benzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 10:32	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 10:32	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 10:32	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 10:32	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 10:32	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 10:32	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 10:32	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 10:32	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 10:32	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 10:32	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 10:32	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 10:32	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 10:32	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 10:32	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 10:32	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 10:32	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 10:32	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 10:32	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 10:32	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 10:32	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 10:32	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 10:32	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 10:32	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 10:32	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 10:32	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 10:32	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 10:32	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 10:32	WG2293878
Propene	ND		0.00250	1	05/28/2024 10:32	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Styrene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Toluene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 10:32	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 10:32	WG2293878
Trichloroethene	ND		0.00100	1	06/03/2024 20:39	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 10:32	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 10:32	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:32	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 10:32	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 10:32	WG2293878
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 10:32*	WG2293878
(S) Toluene-d8	*102*		*80.0-120*		*06/03/2024 20:39*	WG2297775
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*05/28/2024 10:32*	WG2293878
(S) 4-Bromofluorobenzene	*97.4*		*77.0-126*		*06/03/2024 20:39*	WG2297775
(S) 1,2-Dichloroethane-d4	*123*		*70.0-130*		*05/28/2024 10:32*	WG2293878
(S) 1,2-Dichloroethane-d4	*121*		*70.0-130*		*06/03/2024 20:39*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/28/2024 15:29	WG2293892
(S) Toluene-d8	*110*		*77.0-127*		*05/28/2024 15:29*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND		0.0200	5	05/29/2024 11:10	WG2291777

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 10:53	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 10:53	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 10:53	WG2293878
Benzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 10:53	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 10:53	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 10:53	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 10:53	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 10:53	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 10:53	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 10:53	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 10:53	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 10:53	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 10:53	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 10:53	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 10:53	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 10:53	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 10:53	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 10:53	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 10:53	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 10:53	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 10:53	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 10:53	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 10:53	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 10:53	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 10:53	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 10:53	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 10:53	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 10:53	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 10:53	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 10:53	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 10:53	WG2293878
Propene	ND		0.00250	1	05/28/2024 10:53	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Styrene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Toluene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 10:53	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 10:53	WG2293878
Trichloroethene	ND		0.00100	1	06/03/2024 21:00	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 10:53	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 10:53	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 10:53	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 10:53	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 10:53	WG2293878
(S) Toluene-d8	*106*		*80.0-120*		*05/28/2024 10:53*	WG2293878
(S) Toluene-d8	*101*		*80.0-120*		*06/03/2024 21:00*	WG2297775
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*05/28/2024 10:53*	WG2293878
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*06/03/2024 21:00*	WG2297775
(S) 1,2-Dichloroethane-d4	*121*		*70.0-130*		*05/28/2024 10:53*	WG2293878
(S) 1,2-Dichloroethane-d4	*125*		*70.0-130*		*06/03/2024 21:00*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/28/2024 15:50	WG2293892
(S) Toluene-d8	*110*		*77.0-127*		*05/28/2024 15:50*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	121		20.0	5000	06/02/2024 01:47	WG2291780

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 11:14	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 11:14	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 11:14	WG2293878
Benzene	0.00513		0.00100	1	05/28/2024 11:14	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 11:14	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 11:14	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 11:14	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 11:14	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 11:14	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 11:14	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 11:14	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 11:14	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 11:14	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 11:14	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 11:14	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 11:14	WG2293878
1,1-Dichloroethane	0.00504		0.00100	1	05/28/2024 11:14	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,1-Dichloroethene	0.295		0.100	100	06/04/2024 01:53	WG2297775
cis-1,2-Dichloroethene	0.0227		0.00100	1	05/28/2024 11:14	WG2293878
trans-1,2-Dichloroethene	0.00204		0.00100	1	05/28/2024 11:14	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 11:14	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 11:14	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 11:14	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 11:14	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 11:14	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 11:14	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 11:14	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 11:14	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 11:14	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 11:14	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 11:14	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 11:14	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 11:14	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 11:14	WG2293878
Propene	ND		0.00250	1	05/28/2024 11:14	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Styrene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 11:14	WG2293878
Tetrachloroethene	0.00421		0.00100	1	05/28/2024 11:14	WG2293878
Toluene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 11:14	WG2293878
1,1,2-Trichloroethane	0.00445		0.00100	1	05/28/2024 11:14	WG2293878
Trichloroethene	1.92		0.100	100	06/04/2024 01:53	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 11:14	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 11:14	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:14	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 11:14	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 11:14	WG2293878
(S) Toluene-d8	*104*		*80.0-120*		*05/28/2024 11:14*	WG2293878
(S) Toluene-d8	*101*		*80.0-120*		*06/04/2024 01:53*	WG2297775
(S) 4-Bromofluorobenzene	*106*		*77.0-126*		*05/28/2024 11:14*	WG2293878
(S) 4-Bromofluorobenzene	*98.6*		*77.0-126*		*06/04/2024 01:53*	WG2297775
(S) 1,2-Dichloroethane-d4	*123*		*70.0-130*		*05/28/2024 11:14*	WG2293878
(S) 1,2-Dichloroethane-d4	*127*		*70.0-130*		*06/04/2024 01:53*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.348		0.00300	1	05/28/2024 16:12	WG2293892
(S) Toluene-d8	*113*		*77.0-127*		*05/28/2024 16:12*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	150		20.0	5000	06/02/2024 02:15	WG2291780

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 11:35	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 11:35	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 11:35	WG2293878
Benzene	0.00122		0.00100	1	05/28/2024 11:35	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 11:35	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 11:35	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 11:35	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 11:35	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 11:35	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 11:35	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 11:35	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 11:35	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 11:35	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 11:35	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 11:35	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 11:35	WG2293878
1,1-Dichloroethane	0.00109		0.00100	1	05/28/2024 11:35	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,1-Dichloroethene	0.0904		0.00100	1	05/28/2024 11:35	WG2293878
cis-1,2-Dichloroethene	0.00159		0.00100	1	05/28/2024 11:35	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 11:35	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 11:35	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 11:35	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 11:35	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 11:35	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 11:35	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 11:35	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 11:35	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 11:35	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 11:35	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 11:35	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 11:35	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 11:35	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 11:35	WG2293878
Propene	ND		0.00250	1	05/28/2024 11:35	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Styrene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 11:35	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Toluene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 11:35	WG2293878
1,1,2-Trichloroethane	0.00176		0.00100	1	05/28/2024 11:35	WG2293878
Trichloroethene	0.500		0.0250	25	06/04/2024 02:14	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 11:35	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 11:35	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:35	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 11:35	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 11:35	WG2293878
(S) Toluene-d8	*107*		*80.0-120*		*05/28/2024 11:35*	WG2293878
(S) Toluene-d8	*99.6*		*80.0-120*		*06/04/2024 02:14*	WG2297775
(S) 4-Bromofluorobenzene	*111*		*77.0-126*		*05/28/2024 11:35*	WG2293878
(S) 4-Bromofluorobenzene	*98.8*		*77.0-126*		*06/04/2024 02:14*	WG2297775
(S) 1,2-Dichloroethane-d4	*120*		*70.0-130*		*05/28/2024 11:35*	WG2293878
(S) 1,2-Dichloroethane-d4	*125*		*70.0-130*		*06/04/2024 02:14*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.251		0.00300	1	05/28/2024 16:34	WG2293892
(S) Toluene-d8	*114*		*77.0-127*		*05/28/2024 16:34*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	11.9		2.00	500	06/02/2024 02:43	WG2291780

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 11:56	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 11:56	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 11:56	WG2293878
Benzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 11:56	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 11:56	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 11:56	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 11:56	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 11:56	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 11:56	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 11:56	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 11:56	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 11:56	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 11:56	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 11:56	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 11:56	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,1-Dichloroethene	0.00564		0.00100	1	05/28/2024 11:56	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 11:56	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 11:56	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 11:56	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 11:56	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 11:56	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 11:56	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 11:56	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 11:56	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 11:56	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 11:56	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 11:56	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 11:56	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 11:56	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 11:56	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 11:56	WG2293878
Propene	ND		0.00250	1	05/28/2024 11:56	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Styrene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Toluene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 11:56	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 11:56	WG2293878
Trichloroethene	0.0133		0.00100	1	06/03/2024 21:21	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 11:56	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 11:56	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 11:56	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 11:56	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 11:56	WG2293878
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 11:56*	WG2293878
(S) Toluene-d8	*97.6*		*80.0-120*		*06/03/2024 21:21*	WG2297775
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*05/28/2024 11:56*	WG2293878
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*06/03/2024 21:21*	WG2297775
(S) 1,2-Dichloroethane-d4	*121*		*70.0-130*		*05/28/2024 11:56*	WG2293878
(S) 1,2-Dichloroethane-d4	*127*		*70.0-130*		*06/03/2024 21:21*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.0212		0.00300	1	05/28/2024 16:56	WG2293892
(S) Toluene-d8	*114*		*77.0-127*		*05/28/2024 16:56*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND	M2	0.00400	1	05/31/2024 03:04	WG2291780

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	05/28/2024 12:17	WG2293878
Acrolein	ND		0.0500	1	05/28/2024 12:17	WG2293878
Acrylonitrile	ND		0.0100	1	05/28/2024 12:17	WG2293878
Benzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Bromobenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Bromodichloromethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
Bromoform	ND		0.00100	1	05/28/2024 12:17	WG2293878
Bromomethane	ND		0.00500	1	05/28/2024 12:17	WG2293878
1,3-Butadiene	ND		0.00200	1	05/28/2024 12:17	WG2293878
n-Butylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
sec-Butylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
tert-Butylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Carbon tetrachloride	ND	L1	0.00100	1	05/28/2024 12:17	WG2293878
Carbon disulfide	ND		0.00100	1	05/28/2024 12:17	WG2293878
Chlorobenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Chlorodibromomethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
Chloroethane	ND		0.00500	1	05/28/2024 12:17	WG2293878
Chloroform	ND		0.00500	1	05/28/2024 12:17	WG2293878
Chloromethane	ND		0.00250	1	05/28/2024 12:17	WG2293878
Cyclohexane	ND		0.00100	1	05/28/2024 12:17	WG2293878
2-Chlorotoluene	ND		0.00100	1	05/28/2024 12:17	WG2293878
4-Chlorotoluene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 12:17	WG2293878
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
Dibromomethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 12:17	WG2293878
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 12:17	WG2293878
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 12:17	WG2293878
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 12:17	WG2293878
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 12:17	WG2293878
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 12:17	WG2293878
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 12:17	WG2293878
Dicyclopentadiene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Di-isopropyl ether	ND		0.00100	1	05/28/2024 12:17	WG2293878
Ethylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
4-Ethyltoluene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 12:17	WG2293878
n-Hexane	ND		0.0100	1	05/28/2024 12:17	WG2293878
Isopropylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 12:17	WG2293878
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 12:17	WG2293878
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 12:17	WG2293878

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 12:17	WG2293878
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 12:17	WG2293878
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 12:17	WG2293878
Naphthalene	ND		0.00500	1	05/28/2024 12:17	WG2293878
Propene	ND		0.00250	1	05/28/2024 12:17	WG2293878
n-Propylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Styrene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
Tetrachloroethene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Toluene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,1,1-Trichloroethane	ND	L1	0.00100	1	05/28/2024 12:17	WG2293878
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 12:17	WG2293878
Trichloroethene	ND		0.00100	1	06/03/2024 21:42	WG2297775
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 12:17	WG2293878
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 12:17	WG2293878
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 12:17	WG2293878
Vinyl chloride	ND		0.00100	1	05/28/2024 12:17	WG2293878
Xylenes, Total	ND		0.00300	1	05/28/2024 12:17	WG2293878
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 12:17*	WG2293878
(S) Toluene-d8	*101*		*80.0-120*		*06/03/2024 21:42*	WG2297775
(S) 4-Bromofluorobenzene	*106*		*77.0-126*		*05/28/2024 12:17*	WG2293878
(S) 4-Bromofluorobenzene	*100*		*77.0-126*		*06/03/2024 21:42*	WG2297775
(S) 1,2-Dichloroethane-d4	*122*		*70.0-130*		*05/28/2024 12:17*	WG2293878
(S) 1,2-Dichloroethane-d4	*123*		*70.0-130*		*06/03/2024 21:42*	WG2297775

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/28/2024 17:18	WG2293892
(S) Toluene-d8	*110*		*77.0-127*		*05/28/2024 17:18*	WG2293892

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 mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND		0.00400	1	05/31/2024 03:59	WG2291780

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 17:02	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 17:02	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 17:02	WG2294307
Benzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 17:02	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 17:02	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 17:02	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 17:02	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 17:02	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 17:02	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 17:02	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 17:02	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 17:02	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 17:02	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 17:02	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 17:02	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 17:02	WG2294307
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 17:02	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 17:02	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 17:02	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 17:02	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 17:02	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 17:02	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 17:02	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 17:02	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 17:02	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 17:02	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 17:02	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 17:02	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 17:02	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 17:02	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 17:02	WG2294307
Propene	ND		0.00250	1	05/28/2024 17:02	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Styrene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Toluene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 17:02	WG2294307
Trichloroethene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 17:02	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 17:02	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:02	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 17:02	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 17:02	WG2294307
(S) Toluene-d8	*104*		*80.0-120*		*05/28/2024 17:02*	WG2294307
(S) 4-Bromofluorobenzene	*106*		*77.0-126*		*05/28/2024 17:02*	WG2294307
(S) 1,2-Dichloroethane-d4	*104*		*70.0-130*		*05/28/2024 17:02*	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/28/2024 17:40	WG2293892
(S) Toluene-d8	*110*		*77.0-127*		*05/28/2024 17:40*	WG2293892

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 mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND		0.00400	1	05/31/2024 04:54	WG2291780

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 17:25	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 17:25	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 17:25	WG2294307
Benzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 17:25	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 17:25	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 17:25	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 17:25	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 17:25	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 17:25	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 17:25	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 17:25	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 17:25	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 17:25	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 17:25	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 17:25	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 17:25	WG2294307
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 17:25	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 17:25	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 17:25	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 17:25	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 17:25	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 17:25	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 17:25	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 17:25	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 17:25	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 17:25	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 17:25	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 17:25	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 17:25	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 17:25	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 17:25	WG2294307
Propene	ND		0.00250	1	05/28/2024 17:25	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Styrene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Toluene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 17:25	WG2294307
Trichloroethene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 17:25	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 17:25	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:25	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 17:25	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 17:25	WG2294307
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 17:25*	WG2294307
(S) 4-Bromofluorobenzene	*107*		*77.0-126*		*05/28/2024 17:25*	WG2294307
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/28/2024 17:25*	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/28/2024 18:02	WG2293892
(S) Toluene-d8	*110*		*77.0-127*		*05/28/2024 18:02*	WG2293892

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	0.194		0.0200	5	06/02/2024 03:11	WG2291780

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 17:48	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 17:48	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 17:48	WG2294307
Benzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 17:48	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 17:48	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 17:48	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 17:48	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 17:48	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 17:48	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 17:48	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 17:48	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 17:48	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 17:48	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 17:48	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 17:48	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 17:48	WG2294307
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 17:48	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 17:48	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 17:48	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 17:48	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 17:48	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 17:48	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 17:48	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 17:48	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 17:48	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 17:48	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 17:48	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 17:48	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 17:48	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 17:48	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 17:48	WG2294307
Propene	ND		0.00250	1	05/28/2024 17:48	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Styrene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Toluene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 17:48	WG2294307
Trichloroethene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 17:48	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 17:48	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 17:48	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 17:48	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 17:48	WG2294307
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 17:48*	WG2294307
(S) 4-Bromofluorobenzene	*107*		*77.0-126*		*05/28/2024 17:48*	WG2294307
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*05/28/2024 17:48*	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/29/2024 00:00	WG2294555
(S) Toluene-d8	*110*		*77.0-127*		*05/29/2024 00:00*	WG2294555

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	0.0174	M1	0.00400	1	05/29/2024 03:00	WG2293450

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 18:11	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 18:11	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 18:11	WG2294307
Benzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 18:11	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 18:11	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 18:11	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 18:11	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 18:11	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 18:11	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 18:11	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 18:11	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 18:11	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 18:11	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 18:11	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 18:11	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 18:11	WG2294307
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 18:11	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 18:11	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 18:11	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 18:11	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 18:11	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 18:11	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 18:11	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 18:11	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 18:11	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 18:11	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 18:11	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 18:11	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 18:11	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 18:11	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 18:11	WG2294307
Propene	ND		0.00250	1	05/28/2024 18:11	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Styrene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Toluene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 18:11	WG2294307
Trichloroethene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 18:11	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 18:11	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:11	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 18:11	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 18:11	WG2294307
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 18:11*	WG2294307
(S) 4-Bromofluorobenzene	*106*		*77.0-126*		*05/28/2024 18:11*	WG2294307
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/28/2024 18:11*	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/29/2024 00:22	WG2294555
(S) Toluene-d8	*110*		*77.0-127*		*05/29/2024 00:22*	WG2294555

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND	M1	0.00400	1	05/29/2024 15:11	WG2293450

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 18:33	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 18:33	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 18:33	WG2294307
Benzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 18:33	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 18:33	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 18:33	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 18:33	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 18:33	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 18:33	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 18:33	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 18:33	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 18:33	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 18:33	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 18:33	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 18:33	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 18:33	WG2294307
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 18:33	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 18:33	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 18:33	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 18:33	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 18:33	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 18:33	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 18:33	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 18:33	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 18:33	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 18:33	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 18:33	WG2294307

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Methylene Chloride	ND		0.00500	1	05/28/2024 18:33	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 18:33	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 18:33	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 18:33	WG2294307
Propene	0.00300		0.00250	1	05/28/2024 18:33	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Styrene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Toluene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 18:33	WG2294307
Trichloroethene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 18:33	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 18:33	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:33	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 18:33	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 18:33	WG2294307
(S) Toluene-d8	*103*		*80.0-120*		*05/28/2024 18:33*	WG2294307
(S) 4-Bromofluorobenzene	*105*		*77.0-126*		*05/28/2024 18:33*	WG2294307
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/28/2024 18:33*	WG2294307

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
1,4-Dioxane	ND		0.00300	1	05/29/2024 00:53	WG2294555
(S) Toluene-d8	*109*		*77.0-127*		*05/29/2024 00:53*	WG2294555

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND	M1	0.00400	1	05/29/2024 16:06	WG2293450

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 18:56	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 18:56	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 18:56	WG2294307
Benzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 18:56	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 18:56	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 18:56	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 18:56	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 18:56	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 18:56	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 18:56	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 18:56	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 18:56	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 18:56	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 18:56	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 18:56	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 18:56	WG2294307
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 18:56	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 18:56	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 18:56	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 18:56	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 18:56	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 18:56	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 18:56	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 18:56	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 18:56	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 18:56	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 18:56	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 18:56	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 18:56	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 18:56	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 18:56	WG2294307
Propene	ND		0.00250	1	05/28/2024 18:56	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Styrene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Toluene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 18:56	WG2294307
Trichloroethene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 18:56	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 18:56	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 18:56	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 18:56	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 18:56	WG2294307
(S) Toluene-d8	*105*		*80.0-120*		*05/28/2024 18:56*	WG2294307
(S) 4-Bromofluorobenzene	*107*		*77.0-126*		*05/28/2024 18:56*	WG2294307
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/28/2024 18:56*	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/29/2024 01:15	WG2294555
(S) Toluene-d8	*110*		*77.0-127*		*05/29/2024 01:15*	WG2294555

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 15:09	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 15:09	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 15:09	WG2294307
Benzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 15:09	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 15:09	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 15:09	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 15:09	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 15:09	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 15:09	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 15:09	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 15:09	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 15:09	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 15:09	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 15:09	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 15:09	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,1-Dichloroethene	ND		0.00100	1	05/28/2024 15:09	WG2294307
cis-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 15:09	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 15:09	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 15:09	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 15:09	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 15:09	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 15:09	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 15:09	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 15:09	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 15:09	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 15:09	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 15:09	WG2294307
Methylene Chloride	ND		0.00500	1	05/28/2024 15:09	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 15:09	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 15:09	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 15:09	WG2294307
Propene	ND		0.00250	1	05/28/2024 15:09	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Styrene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Toluene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 15:09	WG2294307
Trichloroethene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 15:09	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 15:09	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 15:09	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 15:09	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 15:09	WG2294307
(S) Toluene-d8	*106*		*80.0-120*		*05/28/2024 15:09*	WG2294307
(S) 4-Bromofluorobenzene	*104*		*77.0-126*		*05/28/2024 15:09*	WG2294307
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*05/28/2024 15:09*	WG2294307

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
1,4-Dioxane	ND		0.00300	1	05/28/2024 22:54	WG2294555
(S) Toluene-d8	*109*		*77.0-127*		*05/28/2024 22:54*	WG2294555

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND		0.00400	1	05/29/2024 03:55	WG2293450

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	L1	0.0500	1	05/28/2024 19:19	WG2294307
Acrolein	ND		0.0500	1	05/28/2024 19:19	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 19:19	WG2294307
Benzene	0.00343		0.00100	1	05/28/2024 19:19	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 19:19	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 19:19	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 19:19	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 19:19	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 19:19	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 19:19	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 19:19	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 19:19	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 19:19	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 19:19	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 19:19	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 19:19	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,1-Dichloroethene	0.0195		0.00100	1	05/28/2024 19:19	WG2294307
cis-1,2-Dichloroethene	0.148		0.00100	1	05/28/2024 19:19	WG2294307
trans-1,2-Dichloroethene	0.00618		0.00100	1	05/28/2024 19:19	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 19:19	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 19:19	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 19:19	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 19:19	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 19:19	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 19:19	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 19:19	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 19:19	WG2294307
2-Butanone (MEK)	ND		0.0100	1	05/28/2024 19:19	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 19:19	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 19:19	WG2294307
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	05/28/2024 19:19	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 19:19	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 19:19	WG2294307
Propene	ND		0.00250	1	05/28/2024 19:19	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Styrene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Toluene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 19:19	WG2294307
Trichloroethene	0.165		0.00100	1	05/28/2024 19:19	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 19:19	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 19:19	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 19:19	WG2294307
Vinyl chloride	0.00507		0.00100	1	05/28/2024 19:19	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 19:19	WG2294307
(S) Toluene-d8	*104*		*80.0-120*		*05/28/2024 19:19*	WG2294307
(S) 4-Bromofluorobenzene	*108*		*77.0-126*		*05/28/2024 19:19*	WG2294307
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*05/28/2024 19:19*	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.185		0.00300	1	05/29/2024 01:37	WG2294555
(S) Toluene-d8	*119*		*77.0-127*		*05/29/2024 01:37*	WG2294555

Wet Chemistry by Method 314.0 Mod

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Perchlorate	ND		0.00400	1	05/27/2024 08:02	WG2293450

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	1.25	R7	0.500	10	05/31/2024 00:56	WG2295895
Acrolein	ND		0.0500	1	05/28/2024 19:41	WG2294307
Acrylonitrile	ND		0.0100	1	05/28/2024 19:41	WG2294307
Benzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Bromobenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Bromodichloromethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
Bromoform	ND		0.00100	1	05/28/2024 19:41	WG2294307
Bromomethane	ND		0.00500	1	05/28/2024 19:41	WG2294307
1,3-Butadiene	ND		0.00200	1	05/28/2024 19:41	WG2294307
n-Butylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
sec-Butylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
tert-Butylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Carbon tetrachloride	ND		0.00100	1	05/28/2024 19:41	WG2294307
Carbon disulfide	ND		0.00100	1	05/28/2024 19:41	WG2294307
Chlorobenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Chlorodibromomethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
Chloroethane	ND		0.00500	1	05/28/2024 19:41	WG2294307
Chloroform	ND		0.00500	1	05/28/2024 19:41	WG2294307
Chloromethane	ND		0.00250	1	05/28/2024 19:41	WG2294307
Cyclohexane	ND		0.00100	1	05/28/2024 19:41	WG2294307
2-Chlorotoluene	ND		0.00100	1	05/28/2024 19:41	WG2294307
4-Chlorotoluene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	05/28/2024 19:41	WG2294307
1,2-Dibromoethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
Dibromomethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,2-Dichlorobenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,3-Dichlorobenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,4-Dichlorobenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Dichlorodifluoromethane	ND		0.00500	1	05/28/2024 19:41	WG2294307
1,1-Dichloroethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,2-Dichloroethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,1-Dichloroethene	0.00444		0.00100	1	05/28/2024 19:41	WG2294307
cis-1,2-Dichloroethene	0.0377		0.00100	1	05/28/2024 19:41	WG2294307
trans-1,2-Dichloroethene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,2-Dichloropropane	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,1-Dichloropropene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,3-Dichloropropane	ND		0.00100	1	05/28/2024 19:41	WG2294307
cis-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 19:41	WG2294307
trans-1,3-Dichloropropene	ND		0.00100	1	05/28/2024 19:41	WG2294307
2,2-Dichloropropane	ND		0.00100	1	05/28/2024 19:41	WG2294307
Dicyclopentadiene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Di-isopropyl ether	ND		0.00100	1	05/28/2024 19:41	WG2294307
Ethylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
4-Ethyltoluene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Hexachloro-1,3-butadiene	ND		0.00100	1	05/28/2024 19:41	WG2294307
n-Hexane	ND		0.0100	1	05/28/2024 19:41	WG2294307
Isopropylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
p-Isopropyltoluene	ND		0.00100	1	05/28/2024 19:41	WG2294307
2-Butanone (MEK)	0.975		0.0100	1	05/28/2024 19:41	WG2294307
Methyl Cyclohexane	ND		0.00100	1	05/28/2024 19:41	WG2294307

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methylene Chloride	ND		0.00500	1	05/28/2024 19:41	WG2294307
4-Methyl-2-pentanone (MIBK)	0.175		0.0100	1	05/28/2024 19:41	WG2294307
Methyl tert-butyl ether	ND		0.00100	1	05/28/2024 19:41	WG2294307
Naphthalene	ND		0.00500	1	05/28/2024 19:41	WG2294307
Propene	ND		0.00250	1	05/28/2024 19:41	WG2294307
n-Propylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Styrene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,1,1,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,1,2,2-Tetrachloroethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
Tetrachloroethene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Toluene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,2,3-Trichlorobenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,2,4-Trichlorobenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,1,1-Trichloroethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,1,2-Trichloroethane	ND		0.00100	1	05/28/2024 19:41	WG2294307
Trichloroethene	0.0741		0.00100	1	05/28/2024 19:41	WG2294307
Trichlorofluoromethane	ND		0.00500	1	05/28/2024 19:41	WG2294307
1,2,3-Trichloropropane	ND		0.00250	1	05/28/2024 19:41	WG2294307
1,2,4-Trimethylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,2,3-Trimethylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
1,3,5-Trimethylbenzene	ND		0.00100	1	05/28/2024 19:41	WG2294307
Vinyl chloride	ND		0.00100	1	05/28/2024 19:41	WG2294307
Xylenes, Total	ND		0.00300	1	05/28/2024 19:41	WG2294307
(S) Toluene-d8	*103*		*80.0-120*		*05/28/2024 19:41*	WG2294307
(S) Toluene-d8	*106*		*80.0-120*		*05/31/2024 00:56*	WG2295895
(S) 4-Bromofluorobenzene	*110*		*77.0-126*		*05/28/2024 19:41*	WG2294307
(S) 4-Bromofluorobenzene	*96.7*		*77.0-126*		*05/31/2024 00:56*	WG2295895
(S) 1,2-Dichloroethane-d4	*100*		*70.0-130*		*05/28/2024 19:41*	WG2294307
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/31/2024 00:56*	WG2295895

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.00300	1	05/29/2024 01:58	WG2294555
(S) Toluene-d8	*121*		*77.0-127*		*05/29/2024 01:58*	WG2294555

Method Blank (MB)

(MB) R4074791-1 05/25/24 18:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Perchlorate	U		0.000300	0.00400

L1739181-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1739181-02 05/26/24 09:38 • (DUP) R4074791-6 05/26/24 10:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	ND	ND	1	0.000		15

L1738583-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1738583-01 05/28/24 23:46 • (DUP) R4074918-3 05/29/24 09:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	0.0815	0.0901	5	10.0		15

Laboratory Control Sample (LCS)

(LCS) R4074791-2 05/25/24 19:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Perchlorate	0.0100	0.00998	99.8	90.0-110	

L1739181-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-02 05/26/24 09:38 • (MS) R4074791-7 05/26/24 10:34 • (MSD) R4074791-8 05/26/24 11:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Perchlorate	0.0100	ND	0.0109	0.0110	109	110	1	80.0-120			0.766	15

L1738583-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738583-01 05/28/24 23:46 • (MS) R4074918-4 05/29/24 10:10 • (MSD) R4074918-5 05/29/24 10:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Perchlorate	0.0500	0.0815	0.130	0.126	96.9	89.5	5	80.0-120			2.90	15

Method Blank (MB)

(MB) R4074908-1 05/28/24 20:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Perchlorate	U		0.000300	0.00400

L1739125-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1739125-04 05/29/24 03:44 • (DUP) R4074908-6 05/29/24 04:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	3.33	3.35	50	0.534		15

L1739119-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1739119-01 05/29/24 17:23 • (DUP) R4076418-3 05/29/24 17:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	4.48	4.48	100	0.00388		15

Laboratory Control Sample (LCS)

(LCS) R4074908-2 05/28/24 21:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Perchlorate	0.0100	0.00908	90.8	90.0-110	

L1739125-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739125-04 05/29/24 03:44 • (MS) R4074908-7 05/29/24 04:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.500	3.33	3.83	101	50	80.0-120	

L1739119-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739119-01 05/29/24 17:23 • (MS) R4076418-4 05/29/24 18:19 • (MSD) R4076418-5 05/29/24 18:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Perchlorate	1.00	4.48	5.50	5.45	102	96.6	100	80.0-120			0.983	15

Method Blank (MB)

(MB) R4076261-1 05/30/24 10:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Perchlorate	U		0.000300	0.00400

Method Blank (MB)

(MB) R4076261-3 05/30/24 16:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Perchlorate	U		0.000300	0.00400

L1739125-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1739125-15 06/01/24 23:56 • (DUP) R4076262-3 06/02/24 00:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	4.48	4.47	100	0.354		15

L1739181-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1739181-23 06/02/24 03:11 • (DUP) R4076262-6 06/02/24 03:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	0.194	0.189	5	2.61		15

Laboratory Control Sample (LCS)

(LCS) R4076261-2 05/30/24 11:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Perchlorate	0.0100	0.0107	107	90.0-110	

L1739181-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-20 05/31/24 03:04 • (MS) R4076261-7 05/31/24 03:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	ND	0.00794	79.4	1	80.0-120	M2

L1739181-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-20 05/31/24 03:04 • (MS) R4076261-7 05/31/24 03:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier

Sample Narrative:

MS: spike failed due to sample matrix

L1739181-21 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-21 05/31/24 03:59 • (MS) R4076261-8 05/31/24 04:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	ND	0.00987	98.7	1	80.0-120	

L1739181-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-22 05/31/24 04:54 • (MS) R4076261-9 05/31/24 05:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	ND	0.0106	106	1	80.0-120	

L1739125-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739125-15 06/01/24 23:56 • (MS) R4076262-4 06/02/24 00:51 • (MSD) R4076262-5 06/02/24 01:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Perchlorate	0.0100	4.48	4.49	4.49	35.9	46.5	100	80.0-120	M3	M3	0.0236	15

Sample Narrative:

MS: spike failed due to high hit

L1739181-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-23 06/02/24 03:11 • (MS) R4076262-7 06/02/24 04:07 • (MSD) R4076262-8 06/02/24 04:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Perchlorate	0.0500	0.194	0.239	0.239	89.0	89.5	5	80.0-120			0.109	15

Method Blank (MB)

(MB) R4074429-1 05/27/24 01:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Perchlorate	U		0.000300	0.00400

Method Blank (MB)

(MB) R4074429-3 05/27/24 03:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Perchlorate	U		0.000300	0.00400

L1739689-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1739689-01 05/27/24 17:52 • (DUP) R4074429-16 05/27/24 18:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	ND	ND	1	0.000		15

L1739580-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1739580-01 05/29/24 06:39 • (DUP) R4075406-6 05/29/24 07:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Perchlorate	0.00814	0.00769	1	5.78		15

Laboratory Control Sample (LCS)

(LCS) R4074429-2 05/27/24 02:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Perchlorate	0.0100	0.0107	107	90.0-110	

L1739689-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739689-01 05/27/24 17:52 • (MS) R4074429-17 05/27/24 18:48 • (MSD) R4074429-18 05/27/24 19:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Perchlorate	0.0100	ND	0.0101	0.0103	101	103	1	80.0-120			1.56	15

L1739181-24 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-24 05/29/24 03:00 • (MS) R4075406-4 05/29/24 03:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	0.0174	0.0406	232	1	80.0-120	M1

L1739181-29 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-29 05/29/24 03:55 • (MS) R4075406-5 05/29/24 04:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	ND	0.0131	108	1	80.0-120	

L1739580-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739580-01 05/29/24 06:39 • (MS) R4075406-7 05/29/24 07:34 • (MSD) R4075406-8 05/29/24 08:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Perchlorate	0.0100	0.00814	0.0177	0.0158	95.3	76.6	1	80.0-120		M2	11.2	15

L1739580-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739580-02 05/29/24 08:29 • (MS) R4075406-9 05/29/24 09:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	ND	0.0276	236	1	80.0-120	M1

L1739580-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739580-03 05/29/24 11:05 • (MS) R4075406-10 05/29/24 11:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	0.0714	0.0945	231	1	80.0-120	M3

L1739181-25 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-25 05/29/24 15:11 • (MS) R4075406-11 05/29/24 15:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	ND	0.0191	191	1	80.0-120	M1

L1739181-26 Original Sample (OS) • Matrix Spike (MS)

(OS) L1739181-26 05/29/24 16:06 • (MS) R4075406-12 05/29/24 16:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	0.0100	ND	0.0200	200	1	80.0-120	M1

Method Blank (MB)

(MB) R4076652-3 05/28/24 05:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
1,3-Butadiene	U		0.000299	0.00200
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Carbon disulfide	U		0.0000962	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
Cyclohexane	U		0.000188	0.00100
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100

Method Blank (MB)

(MB) R4076652-3 05/28/24 05:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dicyclopentadiene	U		0.000253	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
4-Ethyltoluene	U		0.000208	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
n-Hexane	U		0.000749	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methyl Cyclohexane	U		0.000660	0.00100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Propene	U		0.000936	0.00250
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000180	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,2,3-Trimethylbenzene	U		0.000104	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*111*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*

QUALITY CONTROL SUMMARY

L1739181-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

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

(LCS) R4076652-1 05/28/24 04:38 • (LCSD) R4076652-2 05/28/24 04:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0240	0.0266	96.0	106	19.0-160			10.3	27
Acrolein	0.0250	0.0242	0.0244	96.8	97.6	30.0-160			0.823	26
Acrylonitrile	0.0250	0.0251	0.0259	100	104	55.0-149			3.14	20
Benzene	0.00500	0.00529	0.00524	106	105	70.0-123			0.950	20
Bromobenzene	0.00500	0.00485	0.00482	97.0	96.4	73.0-121			0.620	20
Bromodichloromethane	0.00500	0.00561	0.00551	112	110	75.0-120			1.80	20
Bromoform	0.00500	0.00512	0.00498	102	99.6	68.0-132			2.77	20
Bromomethane	0.00500	0.00353	0.00341	70.6	68.2	30.0-160			3.46	25
1,3-Butadiene	0.00500	0.00574	0.00557	115	111	45.0-147			3.01	20
n-Butylbenzene	0.00500	0.00434	0.00438	86.8	87.6	73.0-125			0.917	20
sec-Butylbenzene	0.00500	0.00486	0.00498	97.2	99.6	75.0-125			2.44	20
tert-Butylbenzene	0.00500	0.00515	0.00508	103	102	76.0-124			1.37	20
Carbon tetrachloride	0.00500	0.00643	0.00663	129	133	68.0-126	L1	L1	3.06	20
Carbon disulfide	0.00500	0.00491	0.00494	98.2	98.8	61.0-128			0.609	20
Chlorobenzene	0.00500	0.00518	0.00510	104	102	80.0-121			1.56	20
Chlorodibromomethane	0.00500	0.00550	0.00521	110	104	77.0-125			5.42	20
Chloroethane	0.00500	0.00512	0.00482	102	96.4	47.0-150			6.04	20
Chloroform	0.00500	0.00560	0.00562	112	112	73.0-120			0.357	20
Chloromethane	0.00500	0.00468	0.00454	93.6	90.8	41.0-142			3.04	20
Cyclohexane	0.00500	0.00552	0.00564	110	113	71.0-124			2.15	20
2-Chlorotoluene	0.00500	0.00500	0.00498	100	99.6	76.0-123			0.401	20
4-Chlorotoluene	0.00500	0.00488	0.00473	97.6	94.6	75.0-122			3.12	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00415	0.00470	83.0	94.0	58.0-134			12.4	20
1,2-Dibromoethane	0.00500	0.00546	0.00537	109	107	80.0-122			1.66	20
Dibromomethane	0.00500	0.00540	0.00519	108	104	80.0-120			3.97	20
1,2-Dichlorobenzene	0.00500	0.00519	0.00513	104	103	79.0-121			1.16	20
1,3-Dichlorobenzene	0.00500	0.00483	0.00488	96.6	97.6	79.0-120			1.03	20
1,4-Dichlorobenzene	0.00500	0.00484	0.00512	96.8	102	79.0-120			5.62	20
Dichlorodifluoromethane	0.00500	0.00619	0.00638	124	128	51.0-149			3.02	20
1,1-Dichloroethane	0.00500	0.00565	0.00548	113	110	70.0-126			3.05	20
1,2-Dichloroethane	0.00500	0.00607	0.00567	121	113	70.0-128			6.81	20
1,1-Dichloroethene	0.00500	0.00544	0.00549	109	110	71.0-124			0.915	20
cis-1,2-Dichloroethene	0.00500	0.00502	0.00516	100	103	73.0-120			2.75	20
trans-1,2-Dichloroethene	0.00500	0.00526	0.00550	105	110	73.0-120			4.46	20
1,2-Dichloropropane	0.00500	0.00519	0.00501	104	100	77.0-125			3.53	20
1,1-Dichloropropene	0.00500	0.00592	0.00584	118	117	74.0-126			1.36	20
1,3-Dichloropropane	0.00500	0.00516	0.00496	103	99.2	80.0-120			3.95	20
cis-1,3-Dichloropropene	0.00500	0.00516	0.00511	103	102	80.0-123			0.974	20
trans-1,3-Dichloropropene	0.00500	0.00492	0.00499	98.4	99.8	78.0-124			1.41	20
2,2-Dichloropropane	0.00500	0.00493	0.00456	98.6	91.2	58.0-130			7.80	20

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

(LCS) R4076652-1 05/28/24 04:38 • (LCSD) R4076652-2 05/28/24 04:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	0.00500	0.00496	0.00497	99.2	99.4	74.0-126			0.201	20
Di-isopropyl ether	0.00500	0.00546	0.00528	109	106	58.0-138			3.35	20
Ethylbenzene	0.00500	0.00485	0.00492	97.0	98.4	79.0-123			1.43	20
4-Ethyltoluene	0.00500	0.00488	0.00482	97.6	96.4	74.0-127			1.24	20
Hexachloro-1,3-butadiene	0.00500	0.00506	0.00526	101	105	54.0-138			3.88	20
n-Hexane	0.00500	0.00458	0.00492	91.6	98.4	57.0-133			7.16	20
Isopropylbenzene	0.00500	0.00535	0.00547	107	109	76.0-127			2.22	20
p-Isopropyltoluene	0.00500	0.00485	0.00490	97.0	98.0	76.0-125			1.03	20
2-Butanone (MEK)	0.0250	0.0250	0.0242	100	96.8	44.0-160			3.25	20
Methyl Cyclohexane	0.00500	0.00485	0.00491	97.0	98.2	68.0-126			1.23	20
Methylene Chloride	0.00500	0.00491	0.00469	98.2	93.8	67.0-120			4.58	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0274	0.0271	110	108	68.0-142			1.10	20
Methyl tert-butyl ether	0.00500	0.00561	0.00562	112	112	68.0-125			0.178	20
Naphthalene	0.00500	0.00372	0.00387	74.4	77.4	54.0-135			3.95	20
Propene	0.00500	0.00682	0.00719	136	144	30.0-160			5.28	20
n-Propylbenzene	0.00500	0.00480	0.00493	96.0	98.6	77.0-124			2.67	20
Styrene	0.00500	0.00532	0.00511	106	102	73.0-130			4.03	20
1,1,1,2-Tetrachloroethane	0.00500	0.00513	0.00525	103	105	75.0-125			2.31	20
1,1,2,2-Tetrachloroethane	0.00500	0.00421	0.00404	84.2	80.8	65.0-130			4.12	20
1,1,2-Trichlorotrifluoroethane	0.00500	0.00542	0.00541	108	108	69.0-132			0.185	20
Tetrachloroethene	0.00500	0.00581	0.00547	116	109	72.0-132			6.03	20
Toluene	0.00500	0.00488	0.00483	97.6	96.6	79.0-120			1.03	20
1,2,3-Trichlorobenzene	0.00500	0.00465	0.00488	93.0	97.6	50.0-138			4.83	20
1,2,4-Trichlorobenzene	0.00500	0.00427	0.00471	85.4	94.2	57.0-137			9.80	20
1,1,1-Trichloroethane	0.00500	0.00657	0.00644	131	129	73.0-124	L1	L1	2.00	20
1,1,2-Trichloroethane	0.00500	0.00499	0.00492	99.8	98.4	80.0-120			1.41	20
Trichloroethene	0.00500	0.00610	0.00631	122	126	78.0-124		L1	3.38	20
Trichlorofluoromethane	0.00500	0.00643	0.00664	129	133	59.0-147			3.21	20
1,2,3-Trichloropropane	0.00500	0.00531	0.00485	106	97.0	73.0-130			9.06	20
1,2,4-Trimethylbenzene	0.00500	0.00477	0.00481	95.4	96.2	76.0-121			0.835	20
1,2,3-Trimethylbenzene	0.00500	0.00491	0.00496	98.2	99.2	77.0-120			1.01	20
1,3,5-Trimethylbenzene	0.00500	0.00519	0.00522	104	104	76.0-122			0.576	20
Vinyl chloride	0.00500	0.00502	0.00488	100	97.6	67.0-131			2.83	20
Xylenes, Total	0.0150	0.0156	0.0156	104	104	79.0-123			0.000	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*109*	*107*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*121*	*118*	*70.0-130*				

L1739181-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-02 05/28/24 06:23 • (MS) R4076652-4 05/28/24 12:58 • (MSD) R4076652-5 05/28/24 13:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	ND	ND	ND	54.4	55.6	1	10.0-160			2.18	35
Acrolein	0.0250	ND	ND	ND	73.6	73.2	1	10.0-160			0.545	39
Acrylonitrile	0.0250	ND	0.0262	0.0272	105	109	1	21.0-160			3.75	32
Benzene	0.00500	ND	0.00531	0.00545	106	109	1	17.0-158			2.60	27
Bromobenzene	0.00500	ND	0.00513	0.00496	103	99.2	1	30.0-149			3.37	28
Bromodichloromethane	0.00500	ND	0.00566	0.00586	113	117	1	31.0-150			3.47	27
Bromoform	0.00500	ND	0.00535	0.00519	107	104	1	29.0-150			3.04	29
Bromomethane	0.00500	ND	ND	ND	69.4	72.8	1	10.0-160			4.78	38
1,3-Butadiene	0.00500	ND	0.00630	0.00662	126	132	1	10.0-160			4.95	22
n-Butylbenzene	0.00500	ND	0.00505	0.00453	101	90.6	1	31.0-150			10.9	30
sec-Butylbenzene	0.00500	ND	0.00538	0.00507	108	101	1	33.0-155			5.93	29
tert-Butylbenzene	0.00500	ND	0.00569	0.00550	114	110	1	34.0-153			3.40	28
Carbon tetrachloride	0.00500	ND	0.00713	0.00728	143	146	1	23.0-159			2.08	28
Carbon disulfide	0.00500	ND	0.00508	0.00515	102	103	1	10.0-156			1.37	28
Chlorobenzene	0.00500	ND	0.00519	0.00509	104	102	1	33.0-152			1.95	27
Chlorodibromomethane	0.00500	ND	0.00565	0.00535	113	107	1	37.0-149			5.45	27
Chloroethane	0.00500	ND	0.00509	0.00518	102	104	1	10.0-160			1.75	30
Chloroform	0.00500	ND	0.00585	0.00584	117	117	1	29.0-154			0.171	28
Chloromethane	0.00500	ND	0.00596	0.00550	119	110	1	10.0-160			8.03	29
Cyclohexane	0.00500	ND	0.00658	0.00670	132	134	1	19.0-160			1.81	23
2-Chlorotoluene	0.00500	ND	0.00526	0.00516	105	103	1	32.0-153			1.92	28
4-Chlorotoluene	0.00500	ND	0.00508	0.00495	102	99.0	1	32.0-150			2.59	28
1,2-Dibromo-3-Chloropropane	0.00500	ND	ND	ND	86.6	86.2	1	22.0-151			0.463	34
1,2-Dibromoethane	0.00500	ND	0.00513	0.00542	103	108	1	34.0-147			5.50	27
Dibromomethane	0.00500	ND	0.00524	0.00548	105	110	1	30.0-151			4.48	27
1,2-Dichlorobenzene	0.00500	ND	0.00559	0.00556	112	111	1	34.0-149			0.538	28
1,3-Dichlorobenzene	0.00500	ND	0.00536	0.00499	107	99.8	1	36.0-146			7.15	27
1,4-Dichlorobenzene	0.00500	ND	0.00532	0.00542	106	108	1	35.0-142			1.86	27
Dichlorodifluoromethane	0.00500	ND	0.00776	0.00771	155	154	1	10.0-160			0.646	29
1,1-Dichloroethane	0.00500	ND	0.00587	0.00586	117	117	1	25.0-158			0.171	27
1,2-Dichloroethane	0.00500	ND	0.00611	0.00629	122	126	1	29.0-151			2.90	27
1,1-Dichloroethene	0.00500	ND	0.00593	0.00613	119	123	1	11.0-160			3.32	29
cis-1,2-Dichloroethene	0.00500	ND	0.00590	0.00614	115	120	1	10.0-160			3.99	27
trans-1,2-Dichloroethene	0.00500	ND	0.00554	0.00536	111	107	1	17.0-153			3.30	27
1,2-Dichloropropane	0.00500	ND	0.00540	0.00546	108	109	1	30.0-156			1.10	27
1,1-Dichloropropene	0.00500	ND	0.00585	0.00635	117	127	1	25.0-158			8.20	27
1,3-Dichloropropane	0.00500	ND	0.00524	0.00510	105	102	1	38.0-147			2.71	27
cis-1,3-Dichloropropene	0.00500	ND	0.00487	0.00512	97.4	102	1	34.0-149			5.01	28
trans-1,3-Dichloropropene	0.00500	ND	0.00482	0.00465	96.4	93.0	1	32.0-149			3.59	28
2,2-Dichloropropane	0.00500	ND	0.00474	0.00481	94.8	96.2	1	24.0-152			1.47	29

L1739181-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-02 05/28/24 06:23 • (MS) R4076652-4 05/28/24 12:58 • (MSD) R4076652-5 05/28/24 13:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	0.00500	ND	0.00523	0.00502	105	100	1	51.0-139			4.10	20
Di-isopropyl ether	0.00500	ND	0.00556	0.00554	111	111	1	21.0-160			0.360	28
Ethylbenzene	0.00500	ND	0.00526	0.00510	105	102	1	30.0-155			3.09	27
4-Ethyltoluene	0.00500	ND	0.00536	0.00521	107	104	1	10.0-160			2.84	20
Hexachloro-1,3-butadiene	0.00500	ND	0.00537	0.00577	107	115	1	20.0-154			7.18	34
n-Hexane	0.00500	ND	ND	ND	118	112	1	10.0-153			5.05	28
Isopropylbenzene	0.00500	ND	0.00577	0.00563	115	113	1	28.0-157			2.46	27
p-Isopropyltoluene	0.00500	ND	0.00545	0.00546	109	109	1	30.0-154			0.183	29
2-Butanone (MEK)	0.0250	ND	0.0159	0.0161	63.6	64.4	1	10.0-160			1.25	32
Methyl Cyclohexane	0.00500	ND	0.00602	0.00596	120	119	1	11.0-160			1.00	24
Methylene Chloride	0.00500	ND	0.00834	0.00579	167	116	1	23.0-144	M1	R5	36.1	28
4-Methyl-2-pentanone (MIBK)	0.0250	ND	0.0261	0.0268	104	107	1	29.0-160			2.65	29
Methyl tert-butyl ether	0.00500	ND	0.00585	0.00592	117	118	1	28.0-150			1.19	29
Naphthalene	0.00500	ND	ND	ND	68.0	76.2	1	12.0-156			11.4	35
Propene	0.00500	ND	0.00918	0.00943	184	189	1	10.0-160	M1	M1	2.69	29
n-Propylbenzene	0.00500	ND	0.00529	0.00504	106	101	1	31.0-154			4.84	28
Styrene	0.00500	ND	0.00518	0.00512	104	102	1	33.0-155			1.17	28
1,1,1,2-Tetrachloroethane	0.00500	ND	0.00558	0.00540	112	108	1	36.0-151			3.28	29
1,1,2,2-Tetrachloroethane	0.00500	ND	0.00514	0.00483	103	96.6	1	33.0-150			6.22	28
1,1,2-Trichlorotrifluoroethane	0.00500	ND	0.00659	0.00676	132	135	1	23.0-160			2.55	30
Tetrachloroethene	0.00500	ND	0.00632	0.00603	126	121	1	10.0-160			4.70	27
Toluene	0.00500	ND	0.00505	0.00494	101	98.8	1	26.0-154			2.20	28
1,2,3-Trichlorobenzene	0.00500	ND	0.00498	0.00485	99.6	97.0	1	17.0-150			2.64	36
1,2,4-Trichlorobenzene	0.00500	ND	0.00483	0.00492	96.6	98.4	1	24.0-150			1.85	33
1,1,1-Trichloroethane	0.00500	ND	0.00687	0.00675	137	135	1	23.0-160			1.76	28
1,1,2-Trichloroethane	0.00500	ND	0.00501	0.00516	100	103	1	35.0-147			2.95	27
Trichloroethene	0.00500	0.00300	0.0134	0.0105	208	150	1	10.0-160	M1		24.3	25
Trichlorofluoromethane	0.00500	ND	0.00741	0.00755	148	151	1	17.0-160			1.87	31
1,2,3-Trichloropropane	0.00500	ND	0.00523	0.00476	105	95.2	1	34.0-151			9.41	29
1,2,4-Trimethylbenzene	0.00500	ND	0.00512	0.00499	102	99.8	1	26.0-154			2.57	27
1,2,3-Trimethylbenzene	0.00500	ND	0.00531	0.00496	106	99.2	1	32.0-149			6.82	28
1,3,5-Trimethylbenzene	0.00500	ND	0.00557	0.00540	111	108	1	28.0-153			3.10	27
Vinyl chloride	0.00500	ND	0.00541	0.00541	108	108	1	10.0-160			0.000	27
Xylenes, Total	0.0150	ND	0.0160	0.0163	107	109	1	29.0-154			1.86	28
(S) Toluene-d8					*97.5*	*98.8*		*80.0-120*				
(S) 4-Bromofluorobenzene					*106*	*106*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*117*	*121*		*70.0-130*				

Method Blank (MB)

(MB) R4075512-3 05/28/24 12:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
1,3-Butadiene	U		0.000299	0.00200
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Carbon disulfide	U		0.0000962	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
Cyclohexane	U		0.000188	0.00100
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100

Method Blank (MB)

(MB) R4075512-3 05/28/24 12:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dicyclopentadiene	U		0.000253	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
4-Ethyltoluene	U		0.000208	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
n-Hexane	U		0.000749	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methyl Cyclohexane	U		0.000660	0.00100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Propene	U		0.000936	0.00250
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000180	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,2,3-Trimethylbenzene	U		0.000104	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*106*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

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

(LCS) R4075512-1 05/28/24 10:54 • (LCSD) R4075512-2 05/28/24 11:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0487	0.0536	195	214	19.0-160	L1	L1	9.58	27
Acrolein	0.0250	0.00957	0.00947	38.3	37.9	30.0-160			1.05	26
Acrylonitrile	0.0250	0.0266	0.0270	106	108	55.0-149			1.49	20
Benzene	0.00500	0.00471	0.00516	94.2	103	70.0-123			9.12	20
Bromobenzene	0.00500	0.00492	0.00552	98.4	110	73.0-121			11.5	20
Bromodichloromethane	0.00500	0.00482	0.00517	96.4	103	75.0-120			7.01	20
Bromoform	0.00500	0.00447	0.00470	89.4	94.0	68.0-132			5.02	20
Bromomethane	0.00500	0.00653	0.00743	131	149	30.0-160			12.9	25
1,3-Butadiene	0.00500	0.00356	0.00356	71.2	71.2	45.0-147			0.000	20
n-Butylbenzene	0.00500	0.00393	0.00445	78.6	89.0	73.0-125			12.4	20
sec-Butylbenzene	0.00500	0.00483	0.00513	96.6	103	75.0-125			6.02	20
tert-Butylbenzene	0.00500	0.00457	0.00479	91.4	95.8	76.0-124			4.70	20
Carbon tetrachloride	0.00500	0.00428	0.00446	85.6	89.2	68.0-126			4.12	20
Carbon disulfide	0.00500	0.00397	0.00437	79.4	87.4	61.0-128			9.59	20
Chlorobenzene	0.00500	0.00448	0.00481	89.6	96.2	80.0-121			7.10	20
Chlorodibromomethane	0.00500	0.00438	0.00457	87.6	91.4	77.0-125			4.25	20
Chloroethane	0.00500	0.00453	0.00508	90.6	102	47.0-150			11.4	20
Chloroform	0.00500	0.00487	0.00518	97.4	104	73.0-120			6.17	20
Chloromethane	0.00500	0.00456	0.00521	91.2	104	41.0-142			13.3	20
Cyclohexane	0.00500	0.00453	0.00453	90.6	90.6	71.0-124			0.000	20
2-Chlorotoluene	0.00500	0.00472	0.00522	94.4	104	76.0-123			10.1	20
4-Chlorotoluene	0.00500	0.00481	0.00524	96.2	105	75.0-122			8.56	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00395	0.00403	79.0	80.6	58.0-134			2.01	20
1,2-Dibromoethane	0.00500	0.00475	0.00492	95.0	98.4	80.0-122			3.52	20
Dibromomethane	0.00500	0.00458	0.00500	91.6	100	80.0-120			8.77	20
1,2-Dichlorobenzene	0.00500	0.00481	0.00519	96.2	104	79.0-121			7.60	20
1,3-Dichlorobenzene	0.00500	0.00465	0.00511	93.0	102	79.0-120			9.43	20
1,4-Dichlorobenzene	0.00500	0.00473	0.00519	94.6	104	79.0-120			9.27	20
Dichlorodifluoromethane	0.00500	0.00481	0.00487	96.2	97.4	51.0-149			1.24	20
1,1-Dichloroethane	0.00500	0.00477	0.00533	95.4	107	70.0-126			11.1	20
1,2-Dichloroethane	0.00500	0.00529	0.00564	106	113	70.0-128			6.40	20
1,1-Dichloroethene	0.00500	0.00401	0.00435	80.2	87.0	71.0-124			8.13	20
cis-1,2-Dichloroethene	0.00500	0.00443	0.00488	88.6	97.6	73.0-120			9.67	20
trans-1,2-Dichloroethene	0.00500	0.00431	0.00479	86.2	95.8	73.0-120			10.5	20
1,2-Dichloropropane	0.00500	0.00447	0.00502	89.4	100	77.0-125			11.6	20
1,1-Dichloropropene	0.00500	0.00446	0.00484	89.2	96.8	74.0-126			8.17	20
1,3-Dichloropropane	0.00500	0.00497	0.00523	99.4	105	80.0-120			5.10	20
cis-1,3-Dichloropropene	0.00500	0.00454	0.00491	90.8	98.2	80.0-123			7.83	20
trans-1,3-Dichloropropene	0.00500	0.00450	0.00459	90.0	91.8	78.0-124			1.98	20
2,2-Dichloropropane	0.00500	0.00439	0.00415	87.8	83.0	58.0-130			5.62	20

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

(LCS) R4075512-1 05/28/24 10:54 • (LCSD) R4075512-2 05/28/24 11:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	0.00500	0.00492	0.00534	98.4	107	74.0-126			8.19	20
Di-isopropyl ether	0.00500	0.00489	0.00521	97.8	104	58.0-138			6.34	20
Ethylbenzene	0.00500	0.00465	0.00490	93.0	98.0	79.0-123			5.24	20
4-Ethyltoluene	0.00500	0.00480	0.00523	96.0	105	74.0-127			8.57	20
Hexachloro-1,3-butadiene	0.00500	0.00476	0.00481	95.2	96.2	54.0-138			1.04	20
n-Hexane	0.00500	0.00471	0.00471	94.2	94.2	57.0-133			0.000	20
Isopropylbenzene	0.00500	0.00467	0.00498	93.4	99.6	76.0-127			6.42	20
p-Isopropyltoluene	0.00500	0.00448	0.00485	89.6	97.0	76.0-125			7.93	20
2-Butanone (MEK)	0.0250	0.0351	0.0361	140	144	44.0-160			2.81	20
Methyl Cyclohexane	0.00500	0.00471	0.00470	94.2	94.0	68.0-126			0.213	20
Methylene Chloride	0.00500	0.00459	0.00496	91.8	99.2	67.0-120			7.75	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0249	0.0252	99.6	101	68.0-142			1.20	20
Methyl tert-butyl ether	0.00500	0.00479	0.00498	95.8	99.6	68.0-125			3.89	20
Naphthalene	0.00500	0.00359	0.00381	71.8	76.2	54.0-135			5.95	20
Propene	0.00500	0.00343	0.00337	68.6	67.4	30.0-160			1.76	20
n-Propylbenzene	0.00500	0.00486	0.00521	97.2	104	77.0-124			6.95	20
Styrene	0.00500	0.00444	0.00485	88.8	97.0	73.0-130			8.83	20
1,1,1,2-Tetrachloroethane	0.00500	0.00433	0.00466	86.6	93.2	75.0-125			7.34	20
1,1,2,2-Tetrachloroethane	0.00500	0.00499	0.00494	99.8	98.8	65.0-130			1.01	20
1,1,2-Trichlorotrifluoroethane	0.00500	0.00459	0.00459	91.8	91.8	69.0-132			0.000	20
Tetrachloroethene	0.00500	0.00452	0.00483	90.4	96.6	72.0-132			6.63	20
Toluene	0.00500	0.00453	0.00486	90.6	97.2	79.0-120			7.03	20
1,2,3-Trichlorobenzene	0.00500	0.00392	0.00425	78.4	85.0	50.0-138			8.08	20
1,2,4-Trichlorobenzene	0.00500	0.00434	0.00461	86.8	92.2	57.0-137			6.03	20
1,1,1-Trichloroethane	0.00500	0.00451	0.00493	90.2	98.6	73.0-124			8.90	20
1,1,2-Trichloroethane	0.00500	0.00485	0.00510	97.0	102	80.0-120			5.03	20
Trichloroethene	0.00500	0.00424	0.00493	84.8	98.6	78.0-124			15.0	20
Trichlorofluoromethane	0.00500	0.00433	0.00464	86.6	92.8	59.0-147			6.91	20
1,2,3-Trichloropropane	0.00500	0.00511	0.00507	102	101	73.0-130			0.786	20
1,2,4-Trimethylbenzene	0.00500	0.00472	0.00516	94.4	103	76.0-121			8.91	20
1,2,3-Trimethylbenzene	0.00500	0.00474	0.00515	94.8	103	77.0-120			8.29	20
1,3,5-Trimethylbenzene	0.00500	0.00477	0.00508	95.4	102	76.0-122			6.29	20
Vinyl chloride	0.00500	0.00463	0.00507	92.6	101	67.0-131			9.07	20
Xylenes, Total	0.0150	0.0136	0.0147	90.7	98.0	79.0-123			7.77	20
(S) Toluene-d8				*104*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*107*	*105*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*103*	*103*	*70.0-130*				

L1739181-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-23 05/28/24 17:48 • (MS) R4075512-4 05/28/24 22:19 • (MSD) R4075512-5 05/28/24 22:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	ND	ND	ND	108	110	1	10.0-160			1.83	35
Acrolein	0.0250	ND	ND	ND	137	139	1	10.0-160			1.45	39
Acrylonitrile	0.0250	ND	0.0272	0.0273	109	109	1	21.0-160			0.367	32
Benzene	0.00500	ND	0.00557	0.00554	111	111	1	17.0-158			0.540	27
Bromobenzene	0.00500	ND	0.00559	0.00558	112	112	1	30.0-149			0.179	28
Bromodichloromethane	0.00500	ND	0.00549	0.00544	110	109	1	31.0-150			0.915	27
Bromoform	0.00500	ND	0.00462	0.00470	92.4	94.0	1	29.0-150			1.72	29
Bromomethane	0.00500	ND	ND	0.00563	95.8	113	1	10.0-160			16.1	38
1,3-Butadiene	0.00500	ND	0.00440	0.00434	88.0	86.8	1	10.0-160			1.37	22
n-Butylbenzene	0.00500	ND	0.00495	0.00522	99.0	104	1	31.0-150			5.31	30
sec-Butylbenzene	0.00500	ND	0.00579	0.00593	116	119	1	33.0-155			2.39	29
tert-Butylbenzene	0.00500	ND	0.00547	0.00535	109	107	1	34.0-153			2.22	28
Carbon tetrachloride	0.00500	ND	0.00539	0.00545	108	109	1	23.0-159			1.11	28
Carbon disulfide	0.00500	ND	0.00471	0.00479	94.2	95.8	1	10.0-156			1.68	28
Chlorobenzene	0.00500	ND	0.00516	0.00502	103	100	1	33.0-152			2.75	27
Chlorodibromomethane	0.00500	ND	0.00466	0.00463	93.2	92.6	1	37.0-149			0.646	27
Chloroethane	0.00500	ND	0.00585	0.00588	117	118	1	10.0-160			0.512	30
Chloroform	0.00500	ND	0.00567	0.00572	113	114	1	29.0-154			0.878	28
Chloromethane	0.00500	ND	0.00520	0.00533	104	107	1	10.0-160			2.47	29
Cyclohexane	0.00500	ND	0.00576	0.00571	115	114	1	19.0-160			0.872	23
2-Chlorotoluene	0.00500	ND	0.00558	0.00553	112	111	1	32.0-153			0.900	28
4-Chlorotoluene	0.00500	ND	0.00562	0.00566	112	113	1	32.0-150			0.709	28
1,2-Dibromo-3-Chloropropane	0.00500	ND	ND	ND	78.0	81.0	1	22.0-151			3.77	34
1,2-Dibromoethane	0.00500	ND	0.00497	0.00513	99.4	103	1	34.0-147			3.17	27
Dibromomethane	0.00500	ND	0.00516	0.00519	103	104	1	30.0-151			0.580	27
1,2-Dichlorobenzene	0.00500	ND	0.00530	0.00539	106	108	1	34.0-149			1.68	28
1,3-Dichlorobenzene	0.00500	ND	0.00528	0.00548	106	110	1	36.0-146			3.72	27
1,4-Dichlorobenzene	0.00500	ND	0.00533	0.00550	107	110	1	35.0-142			3.14	27
Dichlorodifluoromethane	0.00500	ND	0.00671	0.00651	134	130	1	10.0-160			3.03	29
1,1-Dichloroethane	0.00500	ND	0.00574	0.00564	115	113	1	25.0-158			1.76	27
1,2-Dichloroethane	0.00500	ND	0.00595	0.00594	119	119	1	29.0-151			0.168	27
1,1-Dichloroethene	0.00500	ND	0.00509	0.00506	102	101	1	11.0-160			0.591	29
cis-1,2-Dichloroethene	0.00500	ND	0.00518	0.00524	104	105	1	10.0-160			1.15	27
trans-1,2-Dichloroethene	0.00500	ND	0.00528	0.00524	106	105	1	17.0-153			0.760	27
1,2-Dichloropropane	0.00500	ND	0.00519	0.00522	104	104	1	30.0-156			0.576	27
1,1-Dichloropropene	0.00500	ND	0.00571	0.00571	114	114	1	25.0-158			0.000	27
1,3-Dichloropropane	0.00500	ND	0.00535	0.00543	107	109	1	38.0-147			1.48	27
cis-1,3-Dichloropropene	0.00500	ND	0.00496	0.00494	99.2	98.8	1	34.0-149			0.404	28
trans-1,3-Dichloropropene	0.00500	ND	0.00462	0.00477	92.4	95.4	1	32.0-149			3.19	28
2,2-Dichloropropane	0.00500	ND	0.00495	0.00495	99.0	99.0	1	24.0-152			0.000	29

L1739181-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-23 05/28/24 17:48 • (MS) R4075512-4 05/28/24 22:19 • (MSD) R4075512-5 05/28/24 22:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	0.00500	ND	0.00544	0.00550	109	110	1	51.0-139			1.10	20
Di-isopropyl ether	0.00500	ND	0.00543	0.00546	109	109	1	21.0-160			0.551	28
Ethylbenzene	0.00500	ND	0.00536	0.00535	107	107	1	30.0-155			0.187	27
4-Ethyltoluene	0.00500	ND	0.00567	0.00573	113	115	1	10.0-160			1.05	20
Hexachloro-1,3-butadiene	0.00500	ND	0.00541	0.00581	108	116	1	20.0-154			7.13	34
n-Hexane	0.00500	ND	ND	ND	113	116	1	10.0-153			3.15	28
Isopropylbenzene	0.00500	ND	0.00548	0.00543	110	109	1	28.0-157			0.917	27
p-Isopropyltoluene	0.00500	ND	0.00535	0.00539	107	108	1	30.0-154			0.745	29
2-Butanone (MEK)	0.0250	ND	0.0236	0.0233	94.4	93.2	1	10.0-160			1.28	32
Methyl Cyclohexane	0.00500	ND	0.00579	0.00585	116	117	1	11.0-160			1.03	24
Methylene Chloride	0.00500	ND	0.00524	0.00520	105	104	1	23.0-144			0.766	28
4-Methyl-2-pentanone (MIBK)	0.0250	ND	0.0250	0.0255	100	102	1	29.0-160			1.98	29
Methyl tert-butyl ether	0.00500	ND	0.00516	0.00522	103	104	1	28.0-150			1.16	29
Naphthalene	0.00500	ND	ND	ND	75.0	79.2	1	12.0-156			5.45	35
Propene	0.00500	ND	0.00436	0.00412	87.2	82.4	1	10.0-160			5.66	29
n-Propylbenzene	0.00500	ND	0.00575	0.00577	115	115	1	31.0-154			0.347	28
Styrene	0.00500	ND	0.00492	0.00498	98.4	99.6	1	33.0-155			1.21	28
1,1,1,2-Tetrachloroethane	0.00500	ND	0.00477	0.00490	95.4	98.0	1	36.0-151			2.69	29
1,1,2,2-Tetrachloroethane	0.00500	ND	0.00551	0.00549	110	110	1	33.0-150			0.364	28
1,1,2-Trichlorotrifluoroethane	0.00500	ND	0.00593	0.00602	119	120	1	23.0-160			1.51	30
Tetrachloroethene	0.00500	ND	0.00544	0.00530	109	106	1	10.0-160			2.61	27
Toluene	0.00500	ND	0.00517	0.00517	103	103	1	26.0-154			0.000	28
1,2,3-Trichlorobenzene	0.00500	ND	0.00429	0.00456	85.8	91.2	1	17.0-150			6.10	36
1,2,4-Trichlorobenzene	0.00500	ND	0.00486	0.00493	97.2	98.6	1	24.0-150			1.43	33
1,1,1-Trichloroethane	0.00500	ND	0.00558	0.00574	112	115	1	23.0-160			2.83	28
1,1,2-Trichloroethane	0.00500	ND	0.00514	0.00528	103	106	1	35.0-147			2.69	27
Trichloroethene	0.00500	ND	0.00504	0.00506	101	101	1	10.0-160			0.396	25
Trichlorofluoromethane	0.00500	ND	0.00587	0.00590	117	118	1	17.0-160			0.510	31
1,2,3-Trichloropropane	0.00500	ND	0.00527	0.00544	105	109	1	34.0-151			3.17	29
1,2,4-Trimethylbenzene	0.00500	ND	0.00544	0.00544	109	109	1	26.0-154			0.000	27
1,2,3-Trimethylbenzene	0.00500	ND	0.00537	0.00538	107	108	1	32.0-149			0.186	28
1,3,5-Trimethylbenzene	0.00500	ND	0.00556	0.00560	111	112	1	28.0-153			0.717	27
Vinyl chloride	0.00500	ND	0.00587	0.00584	117	117	1	10.0-160			0.512	27
Xylenes, Total	0.0150	ND	0.0157	0.0156	105	104	1	29.0-154			0.639	28
(S) Toluene-d8					*103*	*102*		*80.0-120*				
(S) 4-Bromofluorobenzene					*106*	*106*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*104*	*105*		*70.0-130*				

Method Blank (MB)

(MB) R4075714-3 05/31/24 00:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.5*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

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

(LCS) R4075714-1 05/30/24 22:40 • (LCSD) R4075714-2 05/30/24 23:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0185	0.0255	74.0	102	19.0-160		R7	31.8	27
(S) Toluene-d8				*105*	*107*	*80.0-120*				
(S) 4-Bromofluorobenzene				*94.2*	*94.7*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*102*	*103*	*70.0-130*				

Method Blank (MB)

(MB) R4077070-3 06/03/24 17:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1-Dichloroethene	U		0.000188	0.00100
Methylene Chloride	U		0.000430	0.00500
Trichloroethene	U		0.000190	0.00100
(S) Toluene-d8	*100*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*

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

(LCS) R4077070-1 06/03/24 16:16 • (LCSD) R4077070-2 06/03/24 16:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1-Dichloroethene	0.00500	0.00504	0.00486	101	97.2	71.0-124			3.64	20
Methylene Chloride	0.00500	0.00495	0.00490	99.0	98.0	67.0-120			1.02	20
Trichloroethene	0.00500	0.00467	0.00482	93.4	96.4	78.0-124			3.16	20
(S) Toluene-d8				*99.7*	*99.6*	*80.0-120*				
(S) 4-Bromofluorobenzene				*102*	*103*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*124*	*122*	*70.0-130*				

Method Blank (MB)

(MB) R4074489-3 05/27/24 13:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	U		0.000597	0.00300
(S) Toluene-d8	*110*			*77.0-127*

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

(LCS) R4074489-1 05/27/24 12:19 • (LCSD) R4074489-2 05/27/24 12:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0485	0.0542	97.0	108	55.0-138			11.1	24
(S) Toluene-d8				*110*	*110*	*77.0-127*				

L1739181-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-02 05/27/24 19:49 • (MS) R4074489-4 05/28/24 01:19 • (MSD) R4074489-5 05/28/24 01:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	ND	0.0408	0.0442	81.6	88.4	1	13.0-160			8.00	31
(S) Toluene-d8					*109*	*109*		*77.0-127*				

L1740634-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1740634-06 05/27/24 23:29 • (MS) R4074489-6 05/28/24 02:03 • (MSD) R4074489-7 05/28/24 02:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	ND	0.0487	0.0419	97.4	83.8	1	13.0-160			15.0	31
(S) Toluene-d8					*110*	*110*		*77.0-127*				

Method Blank (MB)

(MB) R4076629-3 05/28/24 10:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	U		0.000597	0.00300
(S) Toluene-d8	*110*			*77.0-127*

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

(LCS) R4076629-1 05/28/24 09:15 • (LCSD) R4076629-2 05/28/24 09:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0426	0.0480	85.2	96.0	55.0-138			11.9	24
(S) Toluene-d8				*110*	*110*	*77.0-127*				

Method Blank (MB)

(MB) R4075319-2 05/28/24 20:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
1,4-Dioxane	U		0.000597	0.00300
(S) Toluene-d8	*110*			*77.0-127*

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

(LCS) R4075319-1 05/28/24 19:30 • (LCSD) R4075319-3 05/28/24 20:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
1,4-Dioxane	0.0500	0.0338	0.0301	67.6	60.2	55.0-138			11.6	24
(S) Toluene-d8				*110*	*110*	*77.0-127*				

L1739181-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739181-23 05/29/24 00:00 • (MS) R4075319-4 05/29/24 06:21 • (MSD) R4075319-5 05/29/24 06:43

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
1,4-Dioxane	0.0500	ND	0.0341	0.0400	68.2	80.0	1	13.0-160			15.9	31
(S) Toluene-d8					*110*	*110*		*77.0-127*				

L1739580-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739580-01 05/29/24 03:25 • (MS) R4075319-6 05/29/24 07:05 • (MSD) R4075319-7 05/29/24 07:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
1,4-Dioxane	0.0500	ND	0.0311	0.0379	62.2	75.8	1	13.0-160			19.7	31
(S) Toluene-d8					*110*	*110*		*77.0-127*				

Method Blank (MB)

(MB) R4076633-3 06/03/24 12:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	U		0.000597	0.00300
(S) Toluene-d8	*112*			*77.0-127*

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

(LCS) R4076633-1 06/03/24 10:57 • (LCSD) R4076633-2 06/03/24 11:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0388	0.0371	77.6	74.2	55.0-138			4.48	24
(S) Toluene-d8				*111*	*112*	*77.0-127*				

INTERNAL STANDARD SUMMARY

Instrument: VOCMS23 • File ID: 0528_02

05/28/24 04:38

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0528_02	275155	141395	135085
Upper Limit		550310	282790	270170
Lower Limit		137578	70698	67543
LCS R4076652-1 WG2293878 1x	0528_02LCS	275155	141395	135085
LCSD R4076652-2 WG2293878 1x	0528_03	280103	144038	136190
BLANK R4076652-3 WG2293878 1x	0528_05	273747	137291	124710
L1739181-01 WG2293878 1x	0528_06	271024	136751	121530
L1739181-02 WG2293878 1x	0528_07	266941	134849	122084
L1739181-03 WG2293878 1x	0528_08	268339	134234	123705
L1739181-04 WG2293878 1x	0528_09	278307	137650	126016
L1739181-05 WG2293878 1x	0528_10	286815	141660	128987
L1739181-06 WG2293878 1x	0528_11	273415	133880	125379
L1739181-07 WG2293878 1x	0528_12	276490	136616	121017
L1739181-08 WG2293878 1x	0528_13	271023	138461	123990
L1739181-09 WG2293878 1x	0528_14	265441	131507	118171
L1739181-11 WG2293878 1x	0528_15	277051	136741	121495
L1739181-12 WG2293878 1x	0528_16	261983	131382	120599
L1739181-13 WG2293878 1x	0528_17	268251	131732	119629
L1739181-14 WG2293878 1x	0528_18	257632	127265	117620
L1739181-15 WG2293878 1x	0528_19	264927	132402	120329
L1739181-16 WG2293878 1x	0528_20	254523	127019	115281
L1739181-17 WG2293878 1x	0528_21	265046	134657	122587
L1739181-18 WG2293878 1x	0528_22	265887	130496	118030
L1739181-19 WG2293878 1x	0528_23	255154	127890	117531
L1739181-20 WG2293878 1x	0528_24	250557	128660	107126
L1739181-10 WG2293878 10x	0528_25	268833	135912	124432
MS R4076652-4 WG2293878 1x	0528_26	275628	144201	131420
MSD R4076652-5 WG2293878 1x	0528_27	264975	140591	131929

INTERNAL STANDARD SUMMARY

Instrument: VOCMS30 • File ID: 0528_06

05/28/24 10:54

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0528_06	231054	113811	115967
Upper Limit		462108	227622	231934
Lower Limit		115527	56906	57984
LCS R4075512-1 WG2294307 1x	0528_06LCS	231054	113811	115967
LCSD R4075512-2 WG2294307 1x	0528_07	230079	114910	116006
BLANK R4075512-3 WG2294307 1x	0528_09	223056	109896	107345
L1739181-27 WG2294307 1x	0528_11	213984	103532	97147
L1739181-21 WG2294307 1x	0528_16	221753	109756	107867
L1739181-22 WG2294307 1x	0528_17	230076	112938	109355
L1739181-23 WG2294307 1x	0528_18	221504	108133	106039
L1739181-24 WG2294307 1x	0528_19	216660	106652	105490
L1739181-25 WG2294307 1x	0528_20	225065	111081	106704
L1739181-26 WG2294307 1x	0528_21	225712	110814	109655
L1739181-29 WG2294307 1x	0528_22	256135	127312	132478
L1739181-30 WG2294307 1x	0528_23	240017	120843	123236
MS R4075512-4 WG2294307 1x	0528_30	222202	111734	113342
MSD R4075512-5 WG2294307 1x	0528_31	224157	112862	112592

Instrument: VOCMS35 • File ID: 0603_27

06/03/24 16:16

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0603_27	324491	142293	114715
Upper Limit		648982	284586	229430
Lower Limit		162246	71147	57358
LCS R4077070-1 WG2297775 1x	0603_27LCS	324491	142293	114715
LCSD R4077070-2 WG2297775 1x	0603_28	329320	143220	115833
BLANK R4077070-3 WG2297775 1x	0603_30	308352	134004	102721
L1739181-08 WG2297775 1x	0603_35	304794	131071	102461
L1739181-14 WG2297775 1x	0603_36	300174	129979	102688
L1739181-15 WG2297775 1x	0603_37	295219	128139	93580
L1739181-16 WG2297775 1x	0603_38	297992	129500	100667
L1739181-19 WG2297775 1x	0603_39	292513	132366	107148
L1739181-20 WG2297775 1x	0603_40	293086	127430	100837
L1739181-03 WG2297775 25x	0603_43	286511	129327	105545

INTERNAL STANDARD SUMMARY

Instrument: VOCMS35 • File ID: 0603_27

06/03/24 16:16

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
L1739181-04 WG2297775 250x	0603_44	293623	126964	97731
L1739181-05 WG2297775 250x	0603_45	295590	131380	103269
L1739181-06 WG2297775 20x	0603_46	287625	129740	102487
L1739181-07 WG2297775 10x	0603_47	289562	126572	102554
L1739181-10 WG2297775 2500x	0603_48	283481	124603	99663
L1739181-11 WG2297775 20x	0603_49	283344	126506	102826
L1739181-12 WG2297775 50x	0603_50	298705	129850	100359
L1739181-13 WG2297775 50x	0603_51	296900	129664	100315
L1739181-17 WG2297775 100x	0603_52	299140	128712	100869
L1739181-18 WG2297775 25x	0603_53	296017	128504	98134

Instrument: VOCMS36 • File ID: 0530_31

05/30/24 22:40

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0530_31	383513	168305	135124
Upper Limit		767026	336610	270248
Lower Limit		191757	84153	67562
LCS R4075714-1 WG2295895 1x	0530_31LCSA	383513	168305	135124
LCSD R4075714-2 WG2295895 1x	0530_32A	383359	165334	133303
BLANK R4075714-3 WG2295895 1x	0530_36A	390058	168938	130141
L1739181-30 WG2295895 10x	0530_37	370191	161332	131618

INTERNAL STANDARD SUMMARY

Instrument: VOCMS27 • File ID: 0527_03

05/27/24 11:57

Sample ID	File ID	8260-FLUOROBENZENE Response
Standard	0527_03	401905
Upper Limit		803810
Lower Limit		200953
LCS R4074489-1 WG2293888 1x	0527_04	409967
LCSD R4074489-2 WG2293888 1x	0527_05	387391
BLANK R4074489-3 WG2293888 1x	0527_07	340751
L1739181-01 WG2293888 1x	0527_22	390508
L1739181-02 WG2293888 1x	0527_23	364453
MS R4074489-4 WG2293888 1x	0527_38	422845
MSD R4074489-5 WG2293888 1x	0527_39	407983
MS R4074489-6 WG2293888 1x	0527_40	391565
MSD R4074489-7 WG2293888 1x	0527_41	390816

Instrument: VOCMS27 • File ID: 0528_03

05/28/24 08:53

Sample ID	File ID	8260-FLUOROBENZENE Response
Standard	0528_03	376904
Upper Limit		753808
Lower Limit		188452
LCS R4076629-1 WG2293892 1x	0528_04	405382
LCSD R4076629-2 WG2293892 1x	0528_05	361860
BLANK R4076629-3 WG2293892 1x	0528_07	368390
L1739181-04 WG2293892 1x	0528_08	467907
L1739181-05 WG2293892 1x	0528_09	436736
L1739181-06 WG2293892 1x	0528_10	442876
L1739181-07 WG2293892 1x	0528_11	442363
L1739181-08 WG2293892 1x	0528_12	455830
L1739181-09 WG2293892 1x	0528_13	451534
L1739181-12 WG2293892 1x	0528_16	488465
L1739181-13 WG2293892 1x	0528_17	465703
L1739181-14 WG2293892 1x	0528_18	449926
L1739181-15 WG2293892 1x	0528_19	475587
L1739181-16 WG2293892 1x	0528_20	422135
L1739181-17 WG2293892 1x	0528_21	460938

INTERNAL STANDARD SUMMARY

Instrument: VOCMS27 • File ID: 0528_03

05/28/24 08:53

Sample ID	File ID	8260-FLUOROBENZENE Response
L1739181-18 WG2293892 1x	0528_22	365294
L1739181-19 WG2293892 1x	0528_23	463763
L1739181-20 WG2293892 1x	0528_24	413683
L1739181-21 WG2293892 1x	0528_25	450231
L1739181-22 WG2293892 1x	0528_26	425939

Instrument: VOCMS27 • File ID: 0528_29

05/28/24 19:08

Sample ID	File ID	8260-FLUOROBENZENE Response
Standard	0528_29	435971
Upper Limit		871942
Lower Limit		217986
LCS R4075319-1 WG2294555 1x	0528_30	432632
BLANK R4075319-2 WG2294555 1x	0528_32A	437892
LCSD R4075319-3 WG2294555 1x	0528_33A	425723
L1739181-28 WG2294555 1x	0528_37	544577
L1739181-23 WG2294555 1x	0528_40	410958
L1739181-24 WG2294555 1x	0528_41	415539
L1739181-25 WG2294555 1x	0528_42	476371
L1739181-26 WG2294555 1x	0528_43	364514
L1739181-29 WG2294555 1x	0528_44	392232
L1739181-30 WG2294555 1x	0528_45	369707
MS R4075319-4 WG2294555 1x	0528_57	420843
MSD R4075319-5 WG2294555 1x	0528_58	367738
MS R4075319-6 WG2294555 1x	0528_59	451015
MSD R4075319-7 WG2294555 1x	0528_60	416498

INTERNAL STANDARD SUMMARY

Instrument: VOCMS27 • File ID: 0603_04

06/03/24 10:35

Sample ID	File ID	8260-FLUOROBENZENE Response
Standard	0603_04	391116
Upper Limit		782232
Lower Limit		195558
LCS R4076633-1 WG2297742 1x	0603_05	395073
LCSD R4076633-2 WG2297742 1x	0603_06	381948
BLANK R4076633-3 WG2297742 1x	0603_08	375936
L1739181-11 WG2297742 5x	0603_11	404438
L1739181-10 WG2297742 10x	0603_12	408580
L1739181-03 WG2297742 1x	0603_14	378634

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
R5	MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
R7	LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

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	LAO000356
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.

Company Name/Address:
Nammo Defense Systems

4051 N. Higley Rd
Mesa, AZ 85215

Billing Information:
Accounts Payable
4051 N. Higley Rd
Mesa, AZ 85215

Pres Chk

Report to:
Kate Blatchford

Email To: **kblatchford@nammo.us**

Project Description:

City/State Collected:

Please Circle: PT (MT) CT ET

Phone: **480-898-2436**

Client Project #

Lab Project #
NAMMOMAZ-NDS TTU

Collected by (print):
Ryan Ayala

Site/Facility ID #
NDS TTU

P.O. #
0018756

Collected by (signature):
Ryan Ayala
Immediately
Packed on Ice N ___ Y X

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

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PERCHLORATE 125mlHDPE-NoPres	V8260AZ 40mlAmb-HCl	V8260LL14D 40mlAmb HCl	Remarks	Sample # (lab only)
TTU-5-GW-110-20240520	G	GW	110	5/20/24	0928	7	X	X	X		-01
TTU-EX-5-GW-80-20240520		GW	80		0952	19	X	X	X	MS/MSD	-02
TTU-EX-4-GW-77-20240520		GW	77		1049	7	X	X	X		-03
TTU-EX-3-GW-76-20240520		GW	76		1112	7	X	X	X		-04
TTU-EX-3-GW-76-20240520-DUP		GW	76		1112	7	X	X	X	Duplicate	-05
TTU-EX-2-GW-74-20240520		GW	74		1135	7	X	X	X		-06
TTU-EX-1-GW-69-20240520		GW	69		1154	7	X	X	X		-07
TTU-17-GW-80-20240520		GW	80		1225	7	X	X	X		-08
TTU-15-GW-75-20240520		GW	75		1310	7	X	X	X		-09
TTU-16-GW-80-20240520		GW	80		1325	7	X	X	X		-10

Chain of Custody Page 1 of 3

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 # L1739181
B099

Acctnum: **NAMMOMAZ**
Template: **T251002**
Prelogin: **P1068875**
PM: **288 - Daphne Richards**
PB:

Shipped Via: **FedEX Ground**

* 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 X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Ryan Ayala	5/21/24	1640		2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
	5/21/24	1800	SMA		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				05.22.24 0900	

Company Name/Address:
Nammo Defense Systems

4051 N. Higley Rd
Mesa, AZ 85215

Billing Information:
Accounts Payable
4051 N. Higley Rd
Mesa, AZ 85215

Pres Chk

Report to:
Kate Blatchford

Email To: **kblatchford@nammo.us**

Project Description:

City/State Collected:

Please Circle: PT (MT) CT ET

Phone: **480-898-2436**

Client Project #

Lab Project #
NAMMOMAZ-NDS TTU

Collected by (print):
Ryan Ayala

Site/Facility ID #
NDS TTU

P.O. #
0018756

Collected by (signature):
Ryan Ayala

Immediately Packed on Ice N ___ Y X

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

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PERCHLORATE 125mlHDPE-NoPres	V8260AZ 40mlAmb-HCl	V8260LL14D 40mlAmb HCl	Remarks	Sample # (lab only)
TTU-12-GW-82-20240520	G	GW	82	5/20/24	1432	7	X	X	X		-11
TTU-14-GW-69-20240520		GW	69		1453	7	X	X	X		-12
TTU-14-GW-69-20240520-DUP		GW	69		1453	7	X	X	X	Duplicate	-13
TTU-13-GW-51-20240520		GW	51		1515	7	X	X	X		-14
TTU-9A-GW-61-20240520		GW	61		1534	7	X	X	X		-15
TTU-9A-GW-61-20240520-DUP		GW	61		1534	7	X	X	X	Duplicate	-16
TTU-20-GW-73-20240521		GW	73	5/21/24	0900	7	X	X	X		-17
TTU-2-GW-114-20240521		GW	114		0955	7	X	X	X		-18
TTU-1-GW-50-20240521		GW	50		1027	7	X	X	X		-19
PF-2-GW-400-20240521		GW	400		1203	7	X	X	X		-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 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 Headspace: __Y __N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Ryan Ayala	5/21/24	1640		2 2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
	5/21/24	1800	SHA		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
			CReiser	05.22.24 0900	

Chain of Custody Page 2 of 3

Pace
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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 # UT39181

Table #

Acctnum: **NAMMOMAZ**
Template: **T251002**
Prelogin: **P1068875**
PM: **288 - Daphne Richards**
PB:

Shipped Via: **FedEX Ground**

Company Name/Address:
Nammo Defense Systems

4051 N. Higley Rd
Mesa, AZ 85215

Billing Information:
Accounts Payable
4051 N. Higley Rd
Mesa, AZ 85215

Pres Chk

Report to:
Kate Blatchford

Email To: **kblatchford@nammo.us**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Phone: **480-898-2436**

Client Project #

Lab Project #
NAMMOMAZ-NDS TTU

Collected by (print):
Ryan Ayala

Site/Facility ID #
NDS TTU

P.O. #
0018756

Collected by (signature):
Ryan Ayala

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PERCHLORATE 125mlHDPE-NoPres	V8260AZ 40mlAmb-HCl	V8260LL14D 40mlAmb HCl								Remarks	Sample # (lab only)
TTU-10-GW-172-20240521	G	GW	172	5/21/24	1225	7	X	X	X									-21
TTU-4-GW-57-20240521		GW	57		1247	7	X	X	X									-22
TTU-3-GW-108-20240521		GW	108		1304	21	X	X	X								MS/MSD	-23
TTU-6-GW-143-20240521		GW	143		1358	7	X	X	X									-24
TTU-7-GW-345-20240521		GW	345		1338	7	X	X	X									-25
TTU-8-GW-164-20240521		GW	164		1416	7	X	X	X									-26
TB-20240520	—	—	—	5/20/24	0928	1				X								-27
TB-20240521	—	—	—	5/21/24	0900	1				X								-28

Chain of Custody Page 3 of 3

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 # L1739181

Table #

Acctnum: **NAMMOMAZ**
Template: **T251002**
Prelogin: **P1068875**
PM: **288 - Daphne Richards**
PB:

Shipped Via: **FedEX Ground**

* 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 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 Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
Ryan Ayala	5/21/24	1640		2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
	5/21/24	1800	SNA	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			CRoberts	05-22-24 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

L1739181

Tracking Numbers	Temperature
7155 0313 9935	0.1+0.1=0.2 EDA6
7155 0313 9924	4.5+0.1=4.6 EDA6

Name

Date

5/22-NCF-L1739181 NAMMOMAZ

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) DR Daphne Richards

Due on *25 May 2024 8:00 AM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *22 May 2024 5:18 PM*

Client did not list analysis for the trip blanks. Currently logged on HOLD.

Hailey Robertson *22 May 2024 5:20 PM*

Also Received IDs: TTU-19-GW-73-20240520 (5/20/24 @ 1355), TTU-11-GW-73-20240520 (5/20/24 @ 1403) not listed on the COC.

Daphne Richards *23 May 2024 4:12 PM*

please analyze submitted samples TTU-19-GW-73-20240520 (5/20/24 @ 1355), TTU-11-GW-73-20240520 (5/20/24 @ 1403) not listed on the COC for Perchlorate, VOCs, and 1,4 dioxane. The omission was a field error.

Regarding the trip blanks, please sample this for 1,4 dioxane and 8260B VOCs.

Tory Luttermoser
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Phone: 602.513.5823 Mobile: 480.748.6283

Hailey Robertson *23 May 2024 5:45 PM*

Done