April 15, 2025

Ms. Leigh Barr
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
LeighP.Barr@emnrd.nm.gov

Re: 2024 Annual Facility-Wide Groundwater Monitoring Report, HF Sinclair Navajo Refining LLC, Lovington, New Mexico, GW-014.

Dear Ms. Barr:

Please find attached the 2024 Annual Facility-Wide Groundwater Monitoring Report (Report) for the HF Sinclair Navajo Refining LLC (HFSNR) refinery located in Lovington, New Mexico. The Report summarizes the results of groundwater monitoring and remediation activities conducted at the refinery under GW-014 during calendar year 2024.

If you should have any questions or comments regarding this Report, please feel free to contact Mike Holder at (575) 308-1115.

Sincerely,

Case Hinkins
Environmental Manager
HF Sinclair Navajo Refining LLC

cc: HF Sinclair: J. Ragland, M. Holder
TRC: J. Speer, A. Eljuri

2024 Annual Facility-Wide Groundwater Monitoring Report

April 2025

HF Sinclair Navajo Refining LLC

GW-014

Lovington, New Mexico

Prepared For:

HF Sinclair Navajo Refining LLC

Prepared By:

TRC Environmental Corporation

Austin, Texas



2024 Annual Facility-Wide Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC
GW-014
Lovington, New Mexico

Prepared for:

HF Sinclair Navajo Refining LLC
Artesia, New Mexico

Prepared by:

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TRC Project No. 648909

April 2025

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EXECUTIVE SUMMARY

This *2024 Annual Facility-Wide Groundwater Monitoring Report* documents groundwater monitoring activities conducted at the HF Sinclair Navajo Refining LLC (HFSNR) facility (Refinery) located in Lovington, New Mexico, during calendar year 2024. The Refinery is currently regulated by New Mexico Oil Conservation Division (OCD) under Groundwater Discharge Permit GW-014 (Permit) issued by the OCD on November 16, 2022. The facility was subject to Abatement Plan AP-110 prior to issuance of the Permit.

The groundwater monitoring program consists of semi-annual groundwater gauging of monitoring wells, semi-annual groundwater sampling of monitoring wells, quarterly sampling of Refinery water supply wells, and annual reporting. The monitoring objectives are to (1) determine groundwater elevations, flow direction, and gradient; (2) determine the presence, extent, and apparent thickness of light non-aqueous phase liquid (LNAPL); and (3) obtain dissolved-phase concentration data. Monitoring activities were conducted in general accordance with the January 2024 *Facility-Wide Groundwater Monitoring Work Plan* (2024 FWGMWP) that was approved by OCD on March 12, 2024.

The 2024 groundwater monitoring results indicate physical and chemical groundwater conditions are consistent with historical data. Groundwater flows radially (southeast, south, and north/northwest) towards a cone of depression near the three Refinery water supply wells located within the central portion of the Refinery. This cone of depression is induced by groundwater pumping from the three on-site water supply wells for Refinery process use and non-potable restroom and safety shower use. Groundwater elevations across the Refinery have been decreasing since 2010 and continued to decrease during 2024. Five monitoring wells (MW-17R, MW-22, MW-28, MW-29, and MW-30) were dry during both semi-annual groundwater monitoring events due to declining groundwater elevations. The presence of select anions (chloride, nitrate, and fluoride), total dissolved solids (TDS), and metals in select wells at concentrations above the New Mexico Water Quality Control Commission (WQCC) Standards is due to off-site sources, background concentrations, and/or non-HFSNR sources at the Refinery.

Per the 2024 FWGMWP, two dry monitoring wells (MW-28 and MW-29) were replaced with deeper monitoring wells and two dry monitoring wells (MW-21 and MW-27) were plugged and abandoned (P&A'd) without replacement in October 2024. Wells MW-28 and MW-29 were replaced with deeper monitoring wells MW-28R and MW-29R, respectively.

LNAPL is present in monitoring well MW-31, which was installed in December 2016 to investigate the historical release at the asphalt loading rack. LNAPL recovery was continuously

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conducted at MW-31 throughout 2024 using a pneumatic skimmer recovery system. Approximately 175 gallons of LNAPL were recovered using the skimmer system in 2024.

HFSNR will continue to implement groundwater monitoring activities at the Refinery in 2025 under the 2024 FWGMWP. HFSNR will also continue LNAPL recovery activities at well MW-31 in accordance with the November 17, 2017, letter report that was approved with comments by the OCD on December 22, 2017. HFSNR plans to plug and replace dry wells MW-17R and MW-22 in 2025.

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LIST OF ACRONYMS AND ABBREVIATIONS

DO	Dissolved Oxygen
DRO	Diesel Range Organics
FWGMWP	Facility-Wide Groundwater Monitoring Work Plan
GRO	Gasoline Range Organics
HEP	Holly Energy Partners – Operating, L.P.
HFSNR	HF Sinclair Navajo Refining LLC
HMI	Hydrologic Monitoring
LCS/LCSD	Laboratory control sample and laboratory control sample duplicate
LNAPL	Light Non-Aqueous Phase Liquid
mg/L	milligrams per liter
NMAC	New Mexico Administrative Code
MS/MSD	Matrix spike and matrix spike duplicate
O&M	Operation and Maintenance
OCD	New Mexico Oil Conservation Division
ORC®	Oxygen-Releasing Compound
ORP	Oxidation-Reduction Potential
Pace National	Pace Analytical National Center for Testing & Innovation
P&A'd	Plugged and abandoned
POTW	Publicly-Owned Treatment Works
QA/QC	Quality Assurance/Quality Control
RDL	Reported Detection Limit
RPD	Relative Percent Difference
SM	Standard Method
SVOCs	Semi-Volatile Organic Compounds
TRC	TRC Environmental Corporation
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
UIC	Underground Injection Control
VOCs	Volatile Organic Compounds
WQCC	New Mexico Water Quality Control Commission

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1.0 INTRODUCTION

On behalf of HF Sinclair Navajo Refining LLC (HFSNR), TRC Environmental Corporation (TRC) prepared this *2024 Annual Facility-Wide Groundwater Monitoring Report* to summarize the results of groundwater monitoring activities conducted at the facility (Refinery) located in Lovington, New Mexico, during calendar year 2024. Groundwater monitoring reports prior to 2012 were submitted in accordance with a Groundwater Discharge Permit GW-014 issued by the New Mexico Oil Conservation Division (OCD). The Groundwater Discharge Permit was due to expire on October 30, 2011, and a renewal draft permit was issued in August 2011 that was to go into effect by November 1, 2011. However, the OCD rescinded the Groundwater Discharge Permit on February 9, 2012. The Refinery was then regulated by the OCD under Abatement Plan AP-110 until November 16, 2022, when the OCD issued a new Groundwater Discharge Permit GW-014 (the Permit).

1.1 Refinery Description

The Refinery is located approximately five miles south of Lovington in Lea County, New Mexico. The Refinery started operation in 1974 (Southern Union) and HFSNR became operator of the Refinery in early 1989. The Refinery is located on leased property owned by the City of Lovington. The property is located within the Permian oil field and surrounded by grazing land, oilfield production that started in approximately the 1940s, and produced water disposal wells. There are active and plugged oil wells and saltwater disposal wells within and surrounding the Refinery. The Refinery consists of refining operations, as well as Holly Energy Partners – Operating, L.P. (HEP) pipeline and receiving stations. A Refinery vicinity map is provided as Figure 1, and a Refinery site plan is provided as Figure 2.

1.2 Discharge Permit Annual Report Requirements

This report was prepared to fulfill the requirement in Section 2.K. of GW-014. The requirement specifies that an Annual Report be submitted to the OCD by April 15 following the reporting (calendar) year and should include all components of the Annual Groundwater Monitoring Report and a summary "Section" demonstrating compliance with GW-014. The required information to be included in this Section is provided below:

A. Summary of major Facility activities and events – the Refinery conducted normal operations during 2024. No new tanks were brought online.

B. Summary of all leaks, spills, and releases and corrective actions taken – see Section 7.1 of this report.

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C. Summary of any new discoveries of groundwater and/or vadose zone contamination, including recommendations for further investigation and/or abatement – groundwater monitoring results and any notable changes from previous results that would indicate new groundwater or vadose zone contamination are discussed in Sections 4.1 and 4.2 of this report.

D. Summary of any New Mexico Water Quality Control Commission (WQCC) constituents found to exceed the groundwater standards – see Sections 4.2 and 5.0 of this report.

E. Summary of all waste and wastewater disposed of, sold, or treated on-site – no waste or wastewater is disposed of, sold, or treated on-site. The Refinery's wastewater is discharged to the City of Lovington's publicly-owned treatment works (POTW).

F. Summary of fluids detected in any leak detection system – there are no automatic leak detection systems in use at the Refinery. Equipment, tanks, and piping are routinely inspected and monitored by Refinery personnel. Any identified leaks are reported through shift leadership and managed through the Refinery's standard operating and incident management procedures.

G. Closure of any Underground Injection Control (UIC) Class V wells – there are no UIC wells at the Refinery.

H. Conclusions and recommendations – see Sections 8.0 and 9.0 of this report.

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2.0 MONITORING WELL ABANDONMENT AND INSTALLATION

Monitoring wells MW-21, MW-27, MW-28, and MW-29 were plugged and abandoned (P&A'd) in 2024 because these wells were screened at depths too shallow for optimal monitoring of the current groundwater elevation, which has been decreasing since their respective installations. Wells MW-28 and MW-29 were replaced with new deeper wells MW-28R and MW-29R, respectively. The locations of the former and replacement monitoring wells are shown on Figure 2. Well abandonment and installation activities are described below. All drilling and P&A activities were completed by a New Mexico licensed driller with oversight by TRC.

2.1 Well Abandonment

Monitoring wells MW-21, MW-27, MW-28, and MW-29 were P&A'd on October 16, 17, or 21, 2024, under a *Well Plugging Plan of Operations* approved by the New Mexico Office of the State Engineer (NMOSE) on October 4, 2024. Groundwater elevations had steadily declined in these wells since they were installed in 2010. Starting in the October 2022 semi-annual monitoring event, wells MW-27, MW-28, and MW-29 were dry and would not produce sufficient water volume for sample collection of all required analytes. Well MW-21 was dry starting in the March 2023 monitoring event. Replacement wells MW-28R and MW-29R were installed as detailed below. Monitoring wells MW-21 and MW-27 were not replaced since they were removed from the monitoring program per the January 2024 *Facility-Wide Groundwater Monitoring Work Plan* (2024 FWGMWP*)*, that was approved by the OCD on March 12, 2024.

Monitoring wells MW-21, MW-27, MW-28, and MW-29 were P&A'd in accordance with the approved plugging plan by pressure filling the casing with cement grout from total depth to land surface. The grout was allowed to settle, and any remaining void was filled with additional cement grout. As applicable, the upper portion of the casing was cut below ground surface and removed. The ground surface was restored to surrounding conditions.

2.2 Well Installation

Monitoring wells MW-28R and MW-29R were installed on October 17, 18, and 21, 2024, using roto-sonic drilling methods under NMOSE permit L-12562. The monitoring wells were constructed using 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 20 linear feet of 0.010-inch machine-slot PVC screen to approximately total depths of 145 feet below ground surface (bgs) at both monitoring wells. The well screens were installed across the saturated zone-vadose zone interface. The annular space was filled with 8/16-grade silica sand to at least 2 feet above the screen. The annular space above the sand pack was sealed using hydrated 3/8-inch bentonite chips approximately 3 feet above the sand pack, and Portland cement/bentonite grout from above the bentonite chips to the ground surface.

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Wells MW-28R and MW-29R were completed with a flush mount steel cover and concrete pad. Upon completion, the monitoring wells were developed by surging and purging using a submersible pump. Soil boring/well construction logs for MW-28R and MW-29R are provided in Appendix A.

3.0 SEMI-ANNUAL GROUNDWATER MONITORING ACTIVITIES

Semi-annual groundwater monitoring activities were conducted at the Refinery in April and October 2024 in accordance with the approved 2024 FWGMWP. Hydrologic Monitoring (HMI) conducted the first semi-annual groundwater monitoring event on April 4, 2024, and the second semi-annual event on October 3, 2024. Groundwater monitoring activities consisted of (1) gauging existing Refinery monitoring wells (MW-1 through MW-24R and MW-26R through MW-33) and one recovery well (RW-1) and (2) collecting groundwater samples for laboratory analysis from select Refinery monitoring wells and three Refinery water supply wells (WW-North, WW-South, and WW-East). The locations of the monitoring wells, recovery well, and Refinery water supply wells are presented on Figure 2.

The following deviations to the 2024 FWGMWP occurred during the April 2024 monitoring event:

- Well MW-31 was not sampled due to the presence of light non-aqueous phase liquid (LNAPL). This is consistent with previous sampling events conducted since 2017.
- Wells MW-17R, MW-22, MW-28, MW-29, and MW-30 were dry and could not be sampled.

The following deviations to the 2024 FWGMWP occurred during the October 2024 monitoring event:

- Well MW-31 was not sampled due to the presence of LNAPL. This is consistent with previous sampling events conducted since 2017.
- Wells MW-28, MW-29, and MW-30 were dry and could not be sampled.

3.1 Fluid Level Gauging

Existing Refinery monitoring and recovery wells were gauged during the April 2024 and October 2024 semi-annual monitoring events to determine the groundwater elevation, flow direction and gradient, the presence or absence of LNAPL, and apparent LNAPL thickness. A decontaminated oil-water interface probe was used to measure depths to water and LNAPL, if present. Depths to water and LNAPL were measured to the nearest 0.01-foot from the top of the well casing.

3.2 Groundwater Sample Collection

Groundwater samples were collected for laboratory analysis from the following wells during each semi-annual monitoring event:

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- April 2024: 23 monitoring wells (MW-1 through MW-6, MW-8 through MW-16R, MW-18R through MW-20R, MW-23R, MW-24R, MW-26R, MW-32, and MW-33) and three Refinery water supply wells (WW-North, WW-East, and WW-South).
- October 2024: 9 monitoring wells (MW-6, MW-8, MW-11R through MW-13R, MW-15R, MW-19R, MW-32, and MW-33) and three Refinery water supply wells (WW-North, WW-East, and WW-South).

Each monitoring well was purged and sampled using low-flow sampling procedures. Dedicated bladder pumps installed in each monitoring well were used to purge and sample monitoring wells during the April and October 2024 events. The pump intake was placed at the middle of the water column because the water elevations were within the screened well intervals. A water-quality meter and turbidity meter were used to measure pH, temperature, specific conductivity, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity at regular intervals during the purging process to obtain geochemical data and to monitor for stabilization of the groundwater. The purging process was considered complete when three of the six water quality parameters achieved stabilization.

The Refinery water supply wells were sampled from a sampling point (i.e., tap or spigot) located at or near the well head or pump house and before the water supply is introduced into any storage tank or treatment unit. The wells were purged to remove any standing water from the well casing and surface piping. Grab readings of geochemical parameters including pH, temperature, conductivity, ORP, DO, and turbidity were also collected during the purging process.

After the purging process was complete, groundwater samples were collected directly from the dedicated or disposable tubing (for the monitoring wells) or from the Refinery water supply well sampling point into method-specific containers provided by the laboratory. All groundwater samples were submitted to Pace Analytical National Center for Testing & Innovation (Pace National) in Mount Juliet, Tennessee, under appropriate chain-of-custody documentation for one or more of the following analyses in accordance with the 2024 FWGMWP:

- Volatile organic compounds (VOCs) by SW-846 Method 8260B;
- Semi-volatile organic compounds (SVOCs) by SW-846 Method 8270C;
- Total petroleum hydrocarbons (TPH) low fraction gasoline range organics (GRO) by SW-846 Method 8015D;
- TPH high fraction diesel range organics (DRO) by SW-846 Method 3511/8015;

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- Dissolved metals (aluminum, arsenic, barium, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, nickel, selenium, silver, uranium, zinc) by SW-846 Method 6010B or 6020/6020B;
- Total mercury by SW-846 Method 7470A;
- Anions (chloride, fluoride, nitrate, nitrite, and sulfate) by EPA Method SW-846 Method 9056A; and
- Total Dissolved Solids (TDS) by Standard Method (SM) M2540C-2011.

Prior to December 2018, 20.6.2.3103 New Mexico Administrative Code (NMAC) only included standards for nitrate at the time, so samples were analyzed for nitrate-nitrite. In December 2018, 20.6.3103 NMAC was updated to include separate standards for both nitrate and nitrite. Since the October 2022 semi-annual monitoring event, samples were submitted for separate laboratory analysis of nitrate and nitrite in accordance with the OCD email on June 22, 2022, and letter dated July 19, 2022.

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4.0 SEMI-ANNUAL GROUNDWATER MONITORING RESULTS

The results of the semi-annual groundwater monitoring activities conducted in April 2024 and October 2024 are discussed below.

4.1 Fluid Gauging Results

Fluid level gauging was performed on April 4, 2024, and on October 3, 2024, and the results are presented in Table 1. Potentiometric groundwater surface maps for the April 2024 and October 2024 gauging events are presented as Figures 3 and 4, respectively.

4.1.1 Light Non-Aqueous Phase Liquid (LNAPL)

LNAPL was detected in one well (MW-31) during both semi-annual gauging events. The presence of LNAPL in MW-31 is associated with the historical release discovered at the asphalt loading rack during construction activities in November 2015. Measured apparent LNAPL thicknesses in MW-31 during the April and October 2024 gauging events were 0.42 and 2.26 feet, respectively. HFSNR conducted routine LNAPL recovery using a pneumatic skimmer system at MW-31 throughout 2024, as discussed in Section 7.0. Additional fluid gauging results obtained at MW-31 during recovery activities are provided in Appendix F.

4.1.2 Groundwater

Groundwater elevations measured during both semi-annual gauging events indicate groundwater elevations are decreasing, and groundwater flows radially (southeast, south, and north/northwest) towards a cone of depression near the three Refinery water supply wells located within the central portion of the Refinery. This cone of depression is consistent with previous events and is induced by groundwater pumping from the three on-site Refinery water supply wells for Refinery process use and non-potable restroom and safety shower use. The natural groundwater flow direction at the Refinery (i.e., not influenced by pumping) is to the southeast, as observed in the northern portion of the Refinery.

Groundwater elevations measured during the April 2024 event decreased an average 1.83 feet from those measured in March 2023 (first semi-annual event of 2023). The April 2024 groundwater elevation data indicate groundwater northwest of the cone of depression flows southeast at a hydraulic gradient ranging from 0.004 to 0.011 feet per foot. South/southeast of the cone of depression, groundwater flows north/northwest at a hydraulic gradient ranging from 0.002 to 0.006 feet per foot.

Groundwater elevations measured during the October 2024 event decreased an average 2.25 feet from those measured in October 2023 (second semi-annual event of 2023). The October 2024 groundwater elevation data indicate groundwater northwest of the cone of depression

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flows southeast at a hydraulic gradient ranging from of 0.002 to 0.010 feet per foot. South/southeast of the cone of depression, groundwater flows north/northwest at a hydraulic gradient ranging from 0.003 to 0.009 feet per foot.

A graph of groundwater elevations versus time for representative wells MW-4 and MW-6 is provided in Appendix B. As shown on the graph, groundwater elevations in wells MW-4 and MW-6 have decreased 20.28 feet and 19.94 feet, respectively, from June 2009 to October 2024. These reductions in groundwater levels are consistent across the Refinery and are likely caused by (1) limited recharge due to low rainfall levels and (2) regional groundwater pumping including active pumping from three on-site Refinery water supply wells and City of Lovington water supply wells located northwest and west (i.e., upgradient) of the Refinery.

4.2 Groundwater Sampling Results

Analytical results of organic, anions, and metal constituents in groundwater samples collected during the 2024 sampling events are summarized in Tables 2, 3, and 4, respectively. Analytical results are compared to the New Mexico WQCC Standards for groundwater and any results that exceeded these standards are shaded gray. Groundwater concentration maps are provided as Figures 5 through 11 for constituents that exceeded WQCC Standards. Laboratory analytical reports are provided in Appendix C. Plots of groundwater concentrations over time for constituents detected above the reported detection limit (RDL), or equivalent, more than once in each well are provided in Appendix D. Constituents that were never detected above the RDL, including those only detected at estimated J-flagged concentrations (i.e., detected above the method detection limit but below the RDL), are not included on the concentration plots in Appendix D.

4.2.1 Organic Constituent Results

Analytical results for VOCs, SVOCs, and TPH (i.e., organic constituents) that have historically been detected in groundwater are presented in Table 2. Naphthalene results are included in both the VOC (Method 8260B) and SVOC (Method 8270C) sections of Table 2 as it is reported by both analytical methods.

4.2.1.1 Volatile Organic Compounds

VOCs were not detected above their respective WQCC Standards in any of the wells sampled in April 2024 and October 2024, except for benzene in well MW-11R in April 2024 as shown in Figure 11. Although this is the first exceedance of benzene in well MW-11R since it was installed in December 2016, benzene periodically exceeded the WQCC Standard in the original well (MW-11) between 2009 and 2015. From March 2015 to August 2016, HFSNR installed and maintained oxygen-releasing compound (ORC®) socks in MW-11 to promote enhanced aerobic

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biodegradation of benzene historically detected in this well. Benzene was intermittently detected in MW-11R at estimated J-flagged concentrations an order of magnitude below the WQCC Standard of 0.005 mg/L in April 2021 (0.000660 J mg/L), September 2021 (0.000157 JB mg/L), and October 2023 (0.000170 J mg/L). Benzene was detected above the WQCC Standard in April 2024 (0.840 mg/L) but decreased to an estimated J-flagged concentration in October 2024 (0.000108 J mg/L). The April 2024 exceedance is lower than the historical maximum of 7.8 mg/L detected in MW-11 in February 2012. HFSNR will continue to monitor benzene concentrations in MW 11R during subsequent groundwater monitoring events.

Reported concentrations of other VOCs during the 2024 sampling events were generally consistent with or less than previous sampling results, with notable increases of chloroform in the wells listed below. Chloroform concentrations in these wells remain at least one order of magnitude below the WQCC Standard of 0.1 milligrams per liter (mg/L) and will be reviewed again in 2025.

- MW-4: Chloroform concentrations increased over the six most recent sampling events from an estimated 0.000574 J mg/L in October 2019 to a historical maximum of 0.0109 mg/L in October 2024.
- MW-15R: Chloroform concentrations increased over the four most recent sampling events from 0.0120 mg/L in September 2021 to 0.0204 mg/L in April 2024 but remain below the historical maximum of 0.030 mg/L detected in the former well MW-15 in February 2013.

Although chloroform concentrations in monitoring wells MW-1 and MW-16R did not increase in 2024 compared to 2023 concentrations, the overall trend is increasing; therefore, these wells will also be reviewed again in 2025.

Concentration maps of VOCs in groundwater for the October 2024 monitoring event is not provided because none of the reported concentrations exceeded the WQCC Standards.

4.2.1.2 Semi-Volatile Organic Compounds

SVOCs were not detected above their respective WQCC Standards in any of the wells sampled in April 2024 and October 2024. Analytical results for SVOCs during the 2024 semi-annual monitoring events were generally consistent with previous sampling results.

Concentration maps of SVOCs in groundwater for the April 2024 and October 2024 sampling events are not provided because none of the reported concentrations exceeded the WQCC Standards.

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4.2.1.3 Total Petroleum Hydrocarbons

During the April 2024 sampling event, TPH GRO was detected at an estimated J-flagged concentration below the RDL in wells MW-33 (0.0532 JB mg/L, duplicate sample) and WW-South (0.0315 JB mg/L); however, these concentrations have a "B" qualifier indicating TPH GRO was detected within five times the associated laboratory method blank detection. Therefore, the reported TPH GRO concentrations in wells MW-33 and WW-South likely include laboratory contributions. TPH GRO was not detected in the other four wells sampled and analyzed for TPH GRO in April 2024 (MW-5, MW-32, WW-North, and WW-East), nor in the duplicate collected from WW-South. TPH DRO was detected at concentrations above the RDL in well MW-32 (0.239 mg/L, duplicate sample) and at an estimated J-flagged concentration below the RDL in well MW-33 (0.0919 J mg/L, duplicate sample). TPH DRO was not detected in the other four wells sampled and analyzed for TPH DRO in April 2024 (MW-5, WW-North, WW-South, and WW-East).

During the October 2024 monitoring event, TPH GRO was detected at an estimated J-flagged concentration below the RDL in wells MW-32 (0.0855 JB mg/L), MW-33 (0.0957 JB mg/L), WW-North (0.0852 JB mg/L), WW-South (0.0835 JB mg/L), and WW-East (0.0821 JB mg/L); however, these concentrations are B-flagged, indicating TPH GRO was detected within five times the associated laboratory method blank detection. Therefore, the reported TPH GRO concentrations in wells MW-32, MW-33, WW-North, WW-South, and WW-East likely include laboratory contributions. TPH DRO was detected at concentrations above the RDL in wells MW-32 (0.881 mg/L, duplicate sample) and MW-33 (0.124 mg/L). TPH DRO was detected at estimated J-flagged concentrations below the RDL in the three other wells sampled analyzed for TPH DRO in October 2024 (WW-North, WW-South, and WW-East).

There is no WQCC Standard for TPH DRO or TPH GRO. No indicator VOCs or SVOCs associated with TPH mixtures were detected above their respective WQCC Standard in samples collected from any of these wells.

Reported TPH concentrations for the 2024 monitoring events were consistent with historical monitoring results (i.e., stable trends).

4.2.2 Inorganic Constituent Results

Analytical results for anions and TDS in groundwater are presented in Table 3 and metals in groundwater are presented in Table 4 (i.e., inorganic constituents). A discussion of the inorganic constituent results is provided below.

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4.2.2.1 Anions

The April 2024 analytical results indicate that chloride, fluoride, and nitrate are present in groundwater at concentrations above their respective WQCC Standards. Chloride was detected at concentrations above the WQCC Standard of 250 mg/L in six of the 26 wells sampled for anions (MW-8, MW-11R, MW-13R, MW-15R, MW-19R, and WW-South) with a maximum concentration of 444 mg/L in MW-8. Fluoride was detected at a concentration above the WQCC Standard of 1.6 mg/L in one of the 26 wells sampled for anions at a concentration of 2.17 mg/L in MW-24R. Nitrate was detected at a concentration above the WQCC Standard of 10.0 mg/L in one of the 26 wells sampled for anions at a concentration of 11.0 mg/L in MW-6.

The October 2024 analytical results indicate that chloride and nitrate are present at concentrations above their respective WQCC Standards. Chloride was detected at concentrations above the WQCC Standard of 250 mg/L in five of the 10 wells sampled for anions (MW-8, MW-13R, MW-15R, MW-19R, and WW-South) with a maximum detected concentration of 507 mg/L in MW-15R. Nitrate was detected at a concentration above the WQCC Standard of 10.0 mg/L in two of the 10 wells sampled for anions (MW-6 and MW-8) at a maximum concentration of 14.0 mg/L in MW-6.

Concentration maps of anions that exceeded WQCC Standards in groundwater for the April 2024 and October 2024 sampling events are provided as Figures 5 and 6, respectively.

Reported anion concentrations for the 2024 sampling events were generally consistent with previous sampling results. Notable increases of anion concentrations in the following wells were observed that may be associated with continually reducing groundwater elevations and will be reviewed again in 2025:

- Nitrate concentrations in well MW-4 have increased since October 2022 to a historical maximum of 4.39 mg/L in April 2024, but remain below the WQCC Standard of 10.0 mg/L.
- Nitrate (and prior nitrate-nitrite) concentrations in well MW-6 exhibited an overall increasing trend since approximately 2015 and increased to a historical maximum of 14.0 mg/L in October 2024. Nitrate concentrations exceeded the WQCC Standard of 10.0 mg/L during both 2024 monitoring events. Chloride and sulfate concentrations have also overall increased in this well since October 2022 to 152 mg/L and 121 mg/L (a historical maximum), respectively, in October 2024, but remain below their respective WQCC Standards.

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- Nitrate concentrations in well MW-8 increased from April 2024 (1.89 mg/L) to October 2024 (10.2 mg/L), but remain below the nitrate-nitrite historical maximum of 11.1 mg/L reported in February 2013.

As discussed in the 2023 *Annual Facility-Wide Groundwater Monitoring Report*, nitrate concentrations in well MW-20/MW-20R exhibited an overall increasing trend from approximately 2015. Nitrate concentrations in well MW-20R decreased during the April 2024 monitoring event. Nitrate concentrations in MW-32 also continued to decrease in 2024.

As discussed in the December 2013 *Refinery Investigation Report*, the presence of anions at concentrations above WQCC Standards at select well locations, including chloride (wells MW-8, MW-11R, MW-13R, MW-15R, MW-19R, and WW-South) and fluoride (well MW-24R) is due to off-site sources, background concentrations, and/or non-HFSNR sources at the Refinery.

4.2.2.2 Total Dissolved Solids

During the April 2024 sampling event, TDS was detected at concentrations above the WQCC Standard of 1,000 mg/L in six of the 22 wells sampled for TDS (MW-8, MW-11R, MW-13R, MW-15R, MW-19R, and MW-33) with a maximum concentration of 1,390 mg/L in MW-8. During the October 2024 sampling event, TDS was detected at concentrations above the WQCC Standard of 1,000 mg/L in six of the nine wells sampled for TDS (MW-8, MW-13R, MW-15R, MW-19R, MW-33, and WW-South) with a maximum concentration of 1,780 mg/L in MW-15R. Concentration maps of TDS in groundwater for the April 2024 and October 2024 sampling events are provided as Figures 7 and 8, respectively.

Reported TDS concentrations for both 2024 sampling events were generally consistent with previous sampling results. TDS concentrations have fluctuated above and below the WQCC Standard in multiple wells across the Refinery, including in wells MW-8, MW-11/MW-11R, MW-13/MW-13R, MW-15/MW-15R, MW-19/MW-19R, and WW-South.

As discussed in the December 2013 *Refinery Investigation Report*, the presence of TDS at concentrations above WQCC Standards at select well locations (including wells MW-8, MW-11R, MW-13R, MW-15R, MW-19R, MW-33, and WW-South) is due to off-site sources, background concentrations, and/or non-HFSNR sources at the Refinery.

4.2.2.3 Metals

Boron, iron, manganese, and/or uranium 238 were detected at concentrations above their WQCC Standards in three of the 21 wells sampled in April 2024 (MW-8, MW-11R, and MW-33). In October 2024, arsenic, iron, manganese, and/or uranium 238 were detected at

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concentrations above their WQCC standards in two of the seven wells sampled in October 2024 (MW-32 and MW-33). The reported metal exceedances during 2024 are summarized below:

- Arsenic was detected above the WQCC Standard (0.01 mg/L) at a concentration of 0.0119 mg/L (duplicate sample) in MW-32 during October 2024.
- Boron was detected above the WQCC Standard (0.75 mg/L) at a concentration of 0.873 mg/L in MW-8 during April 2024.
- Iron was detected above the WQCC Standard (1.0 mg/L) at concentrations of 1.59 mg/L and 1.28 mg/L in MW-33 during April 2024 and October 2024, respectively.
- Manganese was detected above the WQCC Standard (0.2 mg/L) at concentrations of 0.692 mg/L in MW-11R during April 2024, and 0.882 mg/L and 0.704 mg/L in MW-33 during April 2024 and October 2024, respectively.
- Uranium 238 was detected above the WQCC Standard (0.03 mg/L) at concentrations of 0.0611 mg/L and 0.0600 mg/L in MW-33 during April 2024 and October 2024, respectively.

Concentration maps of metals that exceeded WQCC Standards in groundwater for the April 2024 and October 2024 sampling events are provided as Figures 9 and 10, respectively. Metal concentrations in groundwater across the Refinery were generally consistent with previous sampling events. The presence of arsenic above the WQCC Standard in well MW-32 and iron, manganese, and uranium 238 above WQCC Standards in well MW-33, both located along the southern Refinery boundary, is potentially attributed to nearby former produced-water injection wells LPU-38 and LSAU-23 and oil production wells LA-9 and LPU-96 (Figure 2) based on the (1) distribution of arsenic, iron, manganese, and uranium 238 in groundwater and (2) lack of potential sources for metals identified in this portion of the Refinery as discussed in the December 2013 *Refinery Investigation Report*.

Reported metal concentrations for the 2024 sampling events were generally consistent with previous sampling results, with notable increases or trends in the following wells:

- Arsenic concentrations in MW-32 increased from 0.00342 mg/L in April 2024 to a historical maximum of 0.0119 mg/L (duplicate sample) in October 2024, which is also the first exceedance of the WQCC Standard (0.01 mg/L) in this well. Arsenic concentrations in MW-32 will continue to be monitored in 2025.
- Boron concentrations in MW-8 increased over the three most recent sampling events to a historical maximum of 0.873 mg/L in April 2024, which is also the first exceedance of

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the WQCC standard (0.75 mg/L) in this well. Boron concentrations in MW-8 will continue to be monitored in 2025.

- Manganese concentrations in MW-11R overall increased over the six most recent sampling events to a historical maximum of 0.692 mg/L in April 2024, which is the second exceedance of the WQCC standard (0.2 mg/L) in this well. However, manganese concentrations in the former well MW-11 consistently exceeded the WQCC standard an order of magnitude higher than the April 2024 result. Manganese concentrations in MW-11R will continue to be monitored in 2025.
- In well MW-33, iron concentrations decreased slightly from a historical maximum in October 2022 (2.02 mg/L, duplicate sample) to 1.59 mg/L and 1.28 mg/L in April 2024 and October 2024, respectively. However, iron concentrations remained above the WQCC Standard of 1.0 mg/L since the first exceedance in April 2022. Uranium 238 concentrations were generally consistent in this well, from 0.0558 mg/L (duplicate sample) in October 2023 to a historical maximum of 0.0611 mg/L and 0.0600 mg/L in April 2024 and October 2024, respectively. Uranium 238 concentrations in MW-33 first exceeded the WQCC Standard of 0.03 mg/L in this well in April 2021 and have continued to exhibit an increasing trend. Iron and uranium 238 concentrations in MW-33 will continue to be monitored in 2025.

Notable concentration increases or trends of chromium in wells MW-4 and MW-15/MW-15R were discussed in the *2023 Annual Facility-Wide Groundwater Monitoring Report*, but the 2024 results in these wells decreased and were consistent with historical results. The aluminum trend in MW-17R and chromium trend in MW-30 were also discussed but no samples were collected from these wells in 2024 because they were dry.

As discussed in the December 2013 *Refinery Investigation Report*, the presence of metals at concentrations above WQCC Standards at select well locations is due to off-site sources, background concentrations, and/or non-HFSNR sources at the Refinery.

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5.0 QUARTERLY REFINERY WATER SUPPLY WELL MONITORING

Groundwater samples were collected from Refinery water supply wells WW-North, WW-East, and WW-South on a quarterly basis in 2024. The objective of the quarterly sampling is to evaluate the potential risk associated with use of the water in Refinery restrooms and safety showers (the water is not used for drinking or cooking). The January 2024 quarterly event was implemented according to the November 2017 *Revised Facility-Wide Groundwater Monitoring Work Plan* (2017 FWGMWP), which included analyzing the water wells for alkalinity (SM 2320B-2011), because the 2024 FWGMWP had not been approved by OCD yet. No deviations to the 2017 FWGMWP during January 2024 or the 2024 FWGMWP during the April, July, and October 2024 quarterly water well events occurred.

Groundwater samples were collected from Refinery water supply wells WW-North, WW-South, and WW-East on January 25, 2024; April 4, 2024; July 18, 2024; and October 3, 2024. Groundwater samples collected from the Refinery water supply wells were submitted to Pace National in Mount Juliet, Tennessee, under appropriate chain-of-custody documentation for the same analyses as the semi-annual monitoring events. Organic, anions, and metals analytical results of the quarterly Refinery water supply well samples are summarized and compared to WQCC Standards in Tables 2, 3, and 4, respectively.

Consistent with historical results, chloride was detected in WW-South at concentrations above the WQCC Standard of 250 mg/L in two of the four quarterly sampling events ranging from 329 mg/L (duplicate sample) in October 2024 to 348 mg/L in April 2024. Similar to historical results, TDS was detected in WW-South at concentrations above the WQCC Standard of 1,000 mg/L in one of the four quarterly sampling events at 1,120 mg/L in October 2024. None of the remaining inorganic analytes were detected at concentrations above their respective WQCC Standards in any of the samples.

Chloroform was detected at J-flagged estimated concentrations in WW-South during all four quarterly sampling events in 2024. The reported chloroform concentrations were consistent with historical results and at least two orders of magnitude below the WQCC Standard of 0.1 mg/L.

TPH DRO was detected at estimated J-flagged concentrations in WW-South and WW-East during the January and October 2024 events and in WW-North during the January, July, and October 2024 events. The January and July 2024 reported TPH DRO concentrations in WW-North were also B-flagged. TPH GRO was detected at estimated J-flagged and B-flagged concentrations in WW-SOUTH during April 2024, and in WW-North, WW-South, and WW-East during October 2024. The “B” qualifier indicates the results were detected within five times the

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associated laboratory method blank detection. Therefore, the detected B-flagged TPH DRO and TPH GRO concentrations in wells WW-North, WW-South, and WW-East during the 2024 sampling events noted above likely include laboratory contributions.

TPH DRO concentrations in the water supply wells during 2024 ranged from an estimated 0.0252 J mg/L in WW-North in October 2024 to an estimated 0.0863 J mg/L (duplicate sample) in WW-South in January 2024. TPH GRO concentrations during 2024 ranged from an estimated 0.0315 JB mg/L in WW-South in April 2024 to an estimated 0.0852 JB mg/L in WW-North in October 2024. There is no WQCC Standard for TPH DRO or TPH GRO. No indicator VOCs or SVOCs associated with TPH mixtures were detected above their respective WQCC Standard in samples collected from any of the Refinery water supply wells.

Water from the Refinery water supply wells poses no risk associated with continued use in Refinery restrooms and safety showers based on these results.

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6.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

Three water samples, one field duplicate, and one trip blank were collected on January 25, 2024. Twenty-six water samples, three field duplicates, two equipment blanks, and two trip blanks were collected on April 4, 2024. Three water samples, one field duplicate, and one trip blank were collected on July 18, 2024. Twelve water samples, two field duplicates, one equipment blank, and two trip blanks were collected on October 3, 2024. These samples were submitted to Pace National in Mount Juliet, Tennessee, for analysis.

TRC Quality Assurance (QA) staff reviewed resultant data. Four data packages identified as L1699138, L1722760 (revised 7/9/2024), L1758454, and L1785334 were reviewed. Data were reviewed for compliance with the analytical protocols used for sample analysis and laboratory-defined quality control (QC) limits. Items reviewed during the data validation process included the following:

- Sample integrity, preservation, and holding times
- Blank analyses
- Surrogate recoveries
- Matrix spike and matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs)
- Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries and RPDs
- Field duplicate and laboratory duplicate results
- Sample documentation

QC data indicate that measurement data are sufficient to meet method quality objectives, reported data are defensible, and QC mechanisms were generally effective in ensuring measurement data reliability within the expected limits of sampling and analytical error with the following exceptions.

- In April 2024, nitrate and nitrite were analyzed grossly outside of the 48-hour holding time (i.e., >96 hours after collection) for samples MW-3, MW-12R2, MW-32, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01 (WW-SOUTH), DUP-02 (MW-32), DUP-03 (MW-33), EB-01, and EB-02 due to a laboratory error. Therefore, the nondetect nitrite results in samples MW-3, MW-12R2, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01 (WW-SOUTH), DUP-03 (MW-33), EB-01, and EB-02, and the nondetect nitrate

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results in samples MW-33, DUP-03 (MW-33), EB-01, and EB-02 are not usable for project objectives.

- In April 2024, total mercury recovered significantly below the acceptance limits (i.e., <30%) in the MS/MSD analyses performed on sample MW-33. Therefore, the nondetect mercury results in all field samples collected in April 2024 are not usable for project objectives.

Complete QA/QC data review results are provided in Appendix E.

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7.0 2024 RELEASES AND REMEDIATION ACTIVITIES

Per Item 2.G of the Permit issued on November 16, 2022, all leaks, spills, and releases during the calendar year will be summarized in Annual Facility-Wide Groundwater Monitoring Reports. The releases are discussed further in Section 7.1. Throughout 2024, HFSNR continued to recover LNAPL associated with the historical release discovered at the asphalt loading rack in November 2015 as discussed further in Section 7.2.

7.1 2024 Releases

Releases that occurred at the Refinery in 2024 and corrective actions taken are summarized in Table 5. All releases occurred within the active operating Refinery that is continuously secured to prevent access from unauthorized personnel and the general public. None of the releases occurred from the stormwater retention pond or firewater pond.

No releases occurred during 2024 that met the definition of a major release under 19.15.29.7 NMAC based on total volume (i.e., greater than 25 barrels). The eleven remaining releases were of volumes less than 5 barrels.

7.2 Remediation Activities – Asphalt Loading Rack (LNAPL Recovery at MW-31)

HFSNR has conducted routine LNAPL recovery at monitoring well MW-31 since LNAPL was discovered in this well in February 2017. A passive skimmer (Petro-Bailer™) was installed and maintained in MW-31 through March 2019 and the skimmer was emptied on a daily to weekly basis. In addition to the passive skimmer, LNAPL was manually bailed from MW-31 on a primarily weekly basis from February 2018 through March 2019. In April 2019, HFSNR installed a pneumatic skimmer pump system (Geotech SpOILer System) in MW-31 that was programmed to operate at regular intervals to continuously recover LNAPL and reduce in-well apparent LNAPL thickness.

Throughout 2024, HFSNR conducted operation and maintenance (O&M) of the recovery system on at least a weekly basis, but gauging of the well was only conducted when the skimmer pump was removed for more intensive O&M and optimization events on a quarterly basis. Fluid gauging and LNAPL recovery results to date are summarized in Appendix F. Approximately 175 gallons of LNAPL were recovered by the pneumatic skimmer pump system from MW-31 during 2024. An approximate total of 2,066 gallons of LNAPL have been recovered manually or by the pneumatic skimmer pump system from MW-31 since February 2017. Apparent LNAPL thickness in MW-31 fluctuated during 2024 with operation of the skimmer system with thicknesses notably lower than thicknesses during 2023. The apparent LNAPL thickness in MW-31 decreased from January 2024 (2.14 feet), April 2024 (0.42 feet), and July 2024 (0.02 feet), and

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then increased in October 2024 (2.26 feet). The increased apparent LNAPL thickness in MW-31 during October 2024 is attributed to the system being off for repairs from September 4 to October 3, 2024. The skimmer system has operated with no issues since the last repair.

HFSNR will continue to monitor and evaluate recovery system data and adjust system operation parameters as necessary in order to optimize recovery. Recovery data collected thus far indicates the skimmer system has increased LNAPL recovery rates. Apparent in-well LNAPL thickness fluctuates with the water table because it relates to the hydrogeologic conditions and characteristics of the LNAPL and soil and is therefore a poor indicator of LNAPL mobility and recoverability. O&M activities will be conducted on at least a weekly basis with more intensive maintenance activities (including optimization) conducted on at least a quarterly basis.

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8.0 CONCLUSIONS

Conclusions based on data collected during groundwater monitoring activities conducted during calendar year 2024 are discussed below.

Groundwater flow directions were consistent with previous groundwater monitoring events. Groundwater elevations decreased an average of 1.83 feet from March 2023 to April 2024 and 2.25 feet from October 2023 to October 2024. Groundwater elevations have continually decreased from June 2009 to October 2024 and groundwater elevations in a few wells are approaching their current total depth. These reductions in groundwater elevation are likely caused by limited recharge and active regional pumping. Groundwater elevations in the Refinery's monitoring well network will be closely monitored during future events and evaluated for potential well replacement. Consistent with previous results, LNAPL was detected in monitoring well MW-31. The apparent LNAPL thickness in MW-31 ranged from 0.02 feet to 2.26 feet during the 2024 quarterly visits.

Analytical results of groundwater samples collected during semi-annual groundwater monitoring events conducted in April 2024 and October 2024 indicated the following:

- The benzene concentration in well MW-11R exceeded its WQCC Standard during the April 2024 sampling event but did not exceed in October 2024.
- No SVOCs were reported at concentrations above WQCC Standards in any well during the reporting period.
- TPH GRO was detected at an estimated J-flagged concentration below the RDL in wells MW-33 and WW-South in April 2024, and wells MW-32, MW-33, WW-North, WW-South, and WW-East in October 2024. TPH DRO was detected above the RDL in well MW-32 in April and October 2024 and MW-33 in October 2024. TPH DRO was detected at an estimated J-flagged concentration below the RDL in wells MW-33 during April 2024 and WW-North, WW-South, and WW-East during October 2024. There is no WQCC Standard for TPH GRO and TPH DRO; no indicator VOCs or SVOCs associated with TPH mixtures were detected above their respective WQCC Standard in samples collected from any of these wells.
- Anions were reported at concentrations above the WQCC Standard for chloride (wells MW-8, MW-11R, MW-13R, MW-15R, MW19R, and WW-South), fluoride (well MW-24R), and nitrate (well MW-6) in April 2024; and chloride (wells MW-8, MW-13R, MW-15R, MW-19R, and WW-South) and nitrate (wells MW-6 and MW-8) in October 2024.

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- TDS was reported at concentrations above its WQCC Standard in wells MW-8, MW-11R, MW-13R, MW-15R, MW-19R, and MW-33 in April 2024; and in wells MW-8, MW-13R, MW-15R, MW-19R, MW-32, and WW-South in October 2024.
- Metals were reported at concentrations above the WQCC Standard for iron, manganese, and uranium 238 in well MW-33 and for boron in well MW-8 in April 2024; and iron, manganese, and uranium 238 in well MW-33 and arsenic in well MW-32 in October 2024.

The presence of select anions, TDS, and select metals at concentrations above WQCC Standards at select well locations is due to off-site sources, background concentrations, and/or non-HFSNR sources at the Refinery. No constituents attributable to Refinery sources or operations, as discussed in the December 2013 *Refinery Investigation Report*, exceeded WQCC Standards in wells located along the southeastern Refinery boundary (wells MW-12R2, MW-14R, MW-32, and MW-33), which is the natural downgradient portion of the facility (i.e., if active pumping from the Refinery water supply wells ceased). Groundwater pumping from Refinery water supply wells WW-East, WW-North, and WW-South for industrial use causes radial groundwater flow towards a cone of depression at the central portion of the Refinery preventing off-site migration of constituents, but also enables on-site migration of constituents from potential off-site sources (e.g., active oil production and injection wells).

WQCC Standards were not exceeded in any of the quarterly samples collected from Refinery water supply wells WW-North, WW-South, and WW-East except for chloride and TDS in WW-South. Based on these results, the water poses no risk associated with continued use in Refinery restrooms and safety showers.

LNAPL was continually recovered from MW-31 throughout 2024 using the pneumatic skimmer pump system. A total of 175 gallons of LNAPL was recovered from MW-31 during 2024.

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9.0 WORK PLANNED FOR 2025

The following summarizes the scope of work planned for 2025 at the Refinery:

- Continue to implement semi-annual groundwater monitoring and annual reporting activities in accordance with the 2024 FWGMWP that was approved by OCD on March 12, 2024. HFSNR will continue to evaluate the sampling plan and recommend revisions based on historical analytical trends in groundwater.
- Continue to implement quarterly Refinery water supply well monitoring in accordance with OCD's May 16, 2014, letter, HFSNR's response letter on June 20, 2014, and the 2024 FWGMWP.
- Conduct routine LNAPL recovery at well MW-31 using the pneumatic skimmer pump system. O&M activities will continue to be conducted on at least a weekly basis with more intensive maintenance activities (including optimization) to be conducted on at least a quarterly basis.
- Evaluate and potentially replace monitor wells that are screened at depths too shallow for optimal monitoring of the current groundwater elevation, which has continually decreased since June 2009.
- P&A and replace dry wells MW-17R and MW-22 with deeper monitoring wells.
- In accordance with the 2024 FWGMWP, separate analyses of nitrite and nitrate will be replaced with combined nitrate/nitrite analysis for comparison to the nitrate WQCC Standard if nitrite is not detected in a well for four consecutive sampling events.

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FIGURES

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Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:

TRC - GIS



LEGEND

- LW - CITY OF LOVINGTON WATER WELL
- RAIL
- FENCE

SOURCE: BASEMAP: WORLD IMAGERY - ESRI, VIVID MAXAR; 4/11/2024.

0 350 700 FEET
1" = 700'
1:8,400

N

505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
REFINERY VICINITY MAP

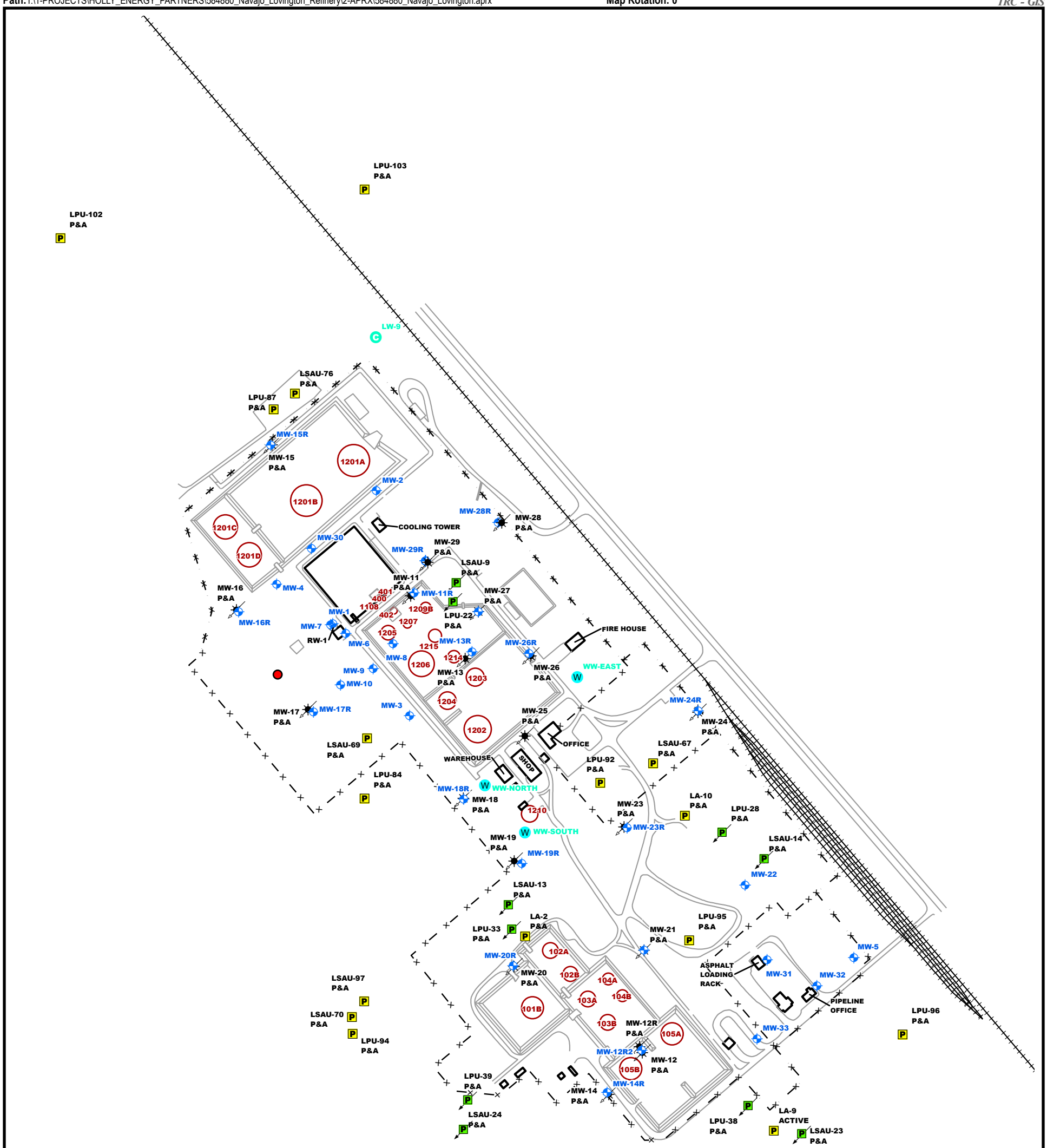
DRAWN BY:	J. WEST
CHECKED BY:	A. ELJURI
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 1

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Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation: 0

TRC - GIS



LEGEND

- MONITORING WELL
- MONITORING WELL - PLUGGED AND ABANDONED (P&A)
- OIL PRODUCTION WELL
- OIL PRODUCTION WELL CONVERTED TO INJECTION WELL
- RECOVERY WELL
- WATER WELL
- CITY OF LOVINGTON WATER WELL
- FLARE
- RAIL
- FENCE
- BUILDINGS
- TANKS

0 250 500 FEET
1" = 500 ft
1:6,000

N

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
REFINERY SITE PLAN

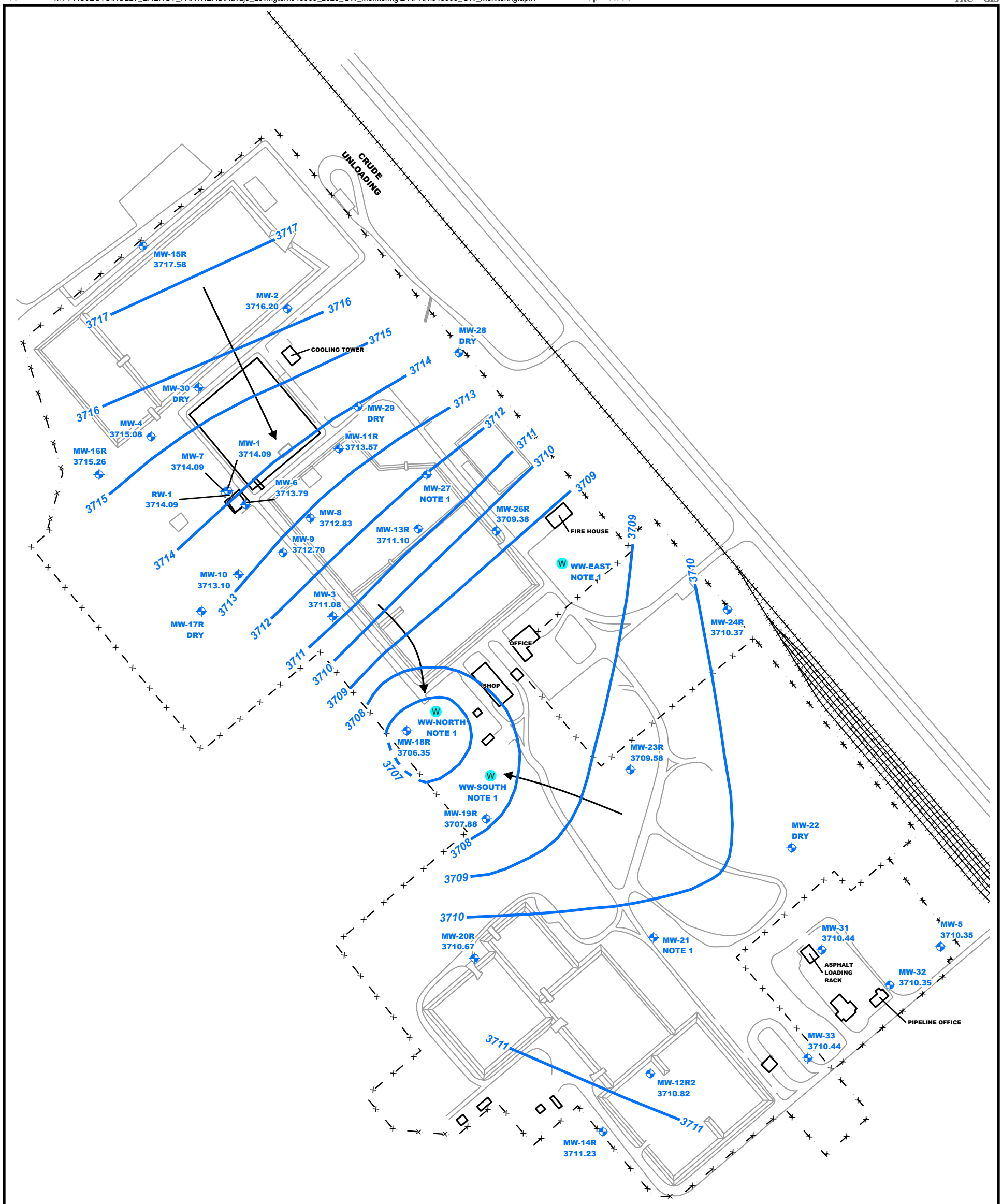
DRAWN BY:	J. WEST
CHECKED BY:	A. ELJURI
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 2

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Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:

TRC - GIS



NOTE:
1. WATER WELL NOT GAUGED. REMOVED FROM GROUNDWATER MONITORING PROGRAM.
2. WELLS GAUGED ON APRIL 4, 2024.

LEGEND

- GROUNDWATER CONTOURS (DASHED WHERE INFERRED)
- MONITORING WELL
- RECOVERY WELL
- WATER WELL
- FENCE
- RAIL
- GROUNDWATER FLOW DIRECTION
- 3711.23 GROUNDWATER ELEVATION (FEET)
- BUILDINGS

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1" = 350 FT
1:4,200

N

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

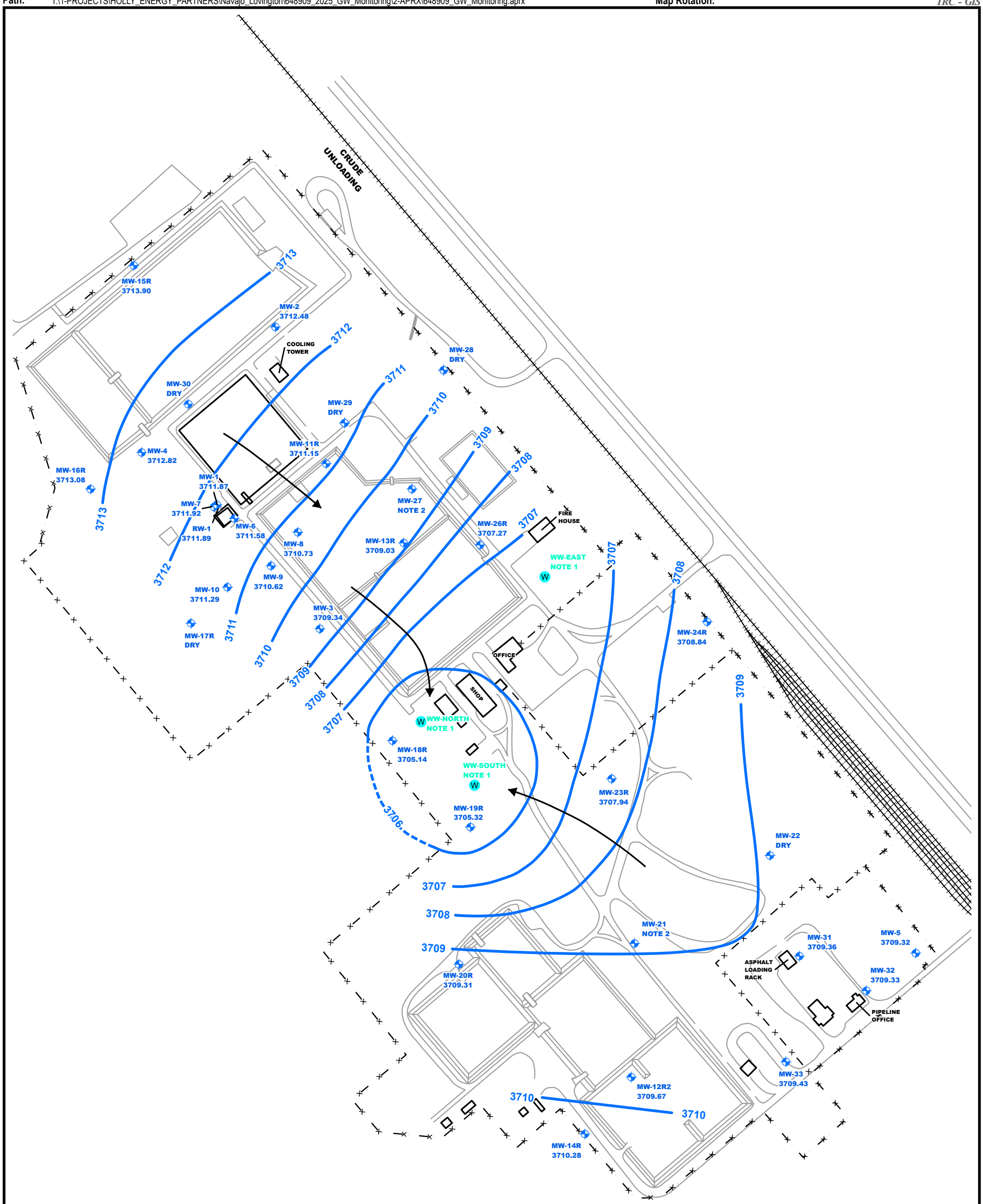
PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
GROUNDWATER POTENTIOMETRIC SURFACE MAP - APRIL 2024

DRAWN BY:	J. WEST
CHECKED BY:	A. ELJURI
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 3

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Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:
TRC - GIS



NOTE:
1. WATER WELL NOT ACCESSIBLE FOR GAUGING.
2. WATER WELL NOT GAUGED. REMOVED FROM GROUNDWATER MONITORING PROGRAM.
3. WELLS GAUGED ON OCTOBER 3, 2024.

LEGEND

- GROUNDWATER CONTOURS (DASHED WHERE INFERRED)
- MONITORING WELL
- RECOVERY WELL
- WATER WELL
- FENCE
- RAIL
- GROUNDWATER FLOW DIRECTION
- 3711.29 GROUNDWATER ELEVATION (FEET)
- BUILDINGS

0 175 350 FEET
1" = 350 FT
1:4,200
N

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505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
GROUNDWATER POTENTIOMETRIC SURFACE MAP - OCTOBER 2024

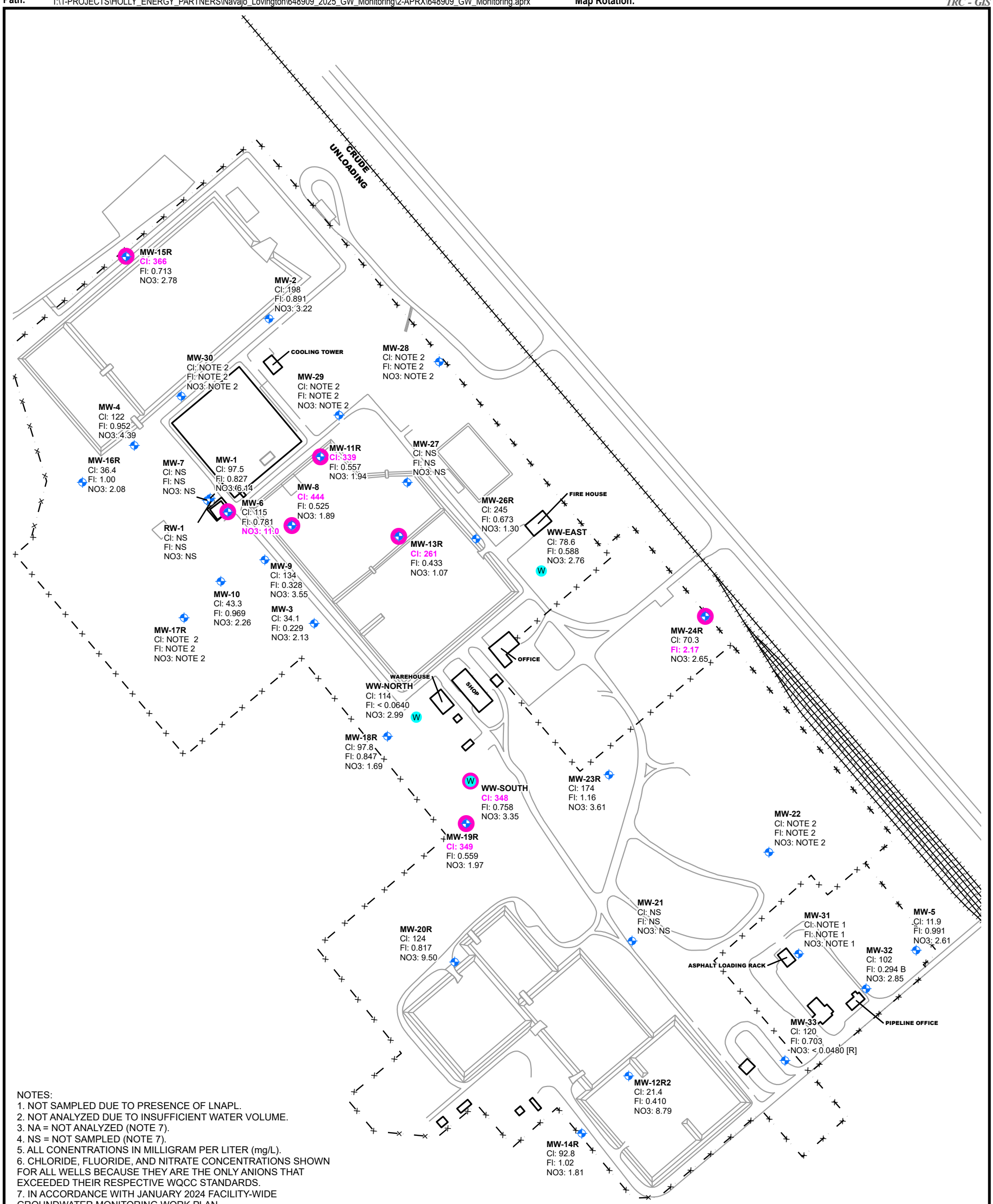
DRAWN BY:	J. WEST
CHECKED BY:	A. ELJURI
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 4

Plot Date: 3/11/2025, 12:57:59 PM by JWEST -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\Navajo_Lovington\648909_2025_GW_Monitoring\2-APRX\648909_GW_Monitoring.aprx

Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:

TRC - GIS



NOTES:
1. NOT SAMPLED DUE TO PRESENCE OF LNAPL.
2. NOT ANALYZED DUE TO INSUFFICIENT WATER VOLUME.
3. NA = NOT ANALYZED (NOTE 7).
4. NS = NOT SAMPLED (NOTE 7).
5. ALL CONENTRATIONS IN MILLIGRAM PER LITER (mg/L).
6. CHLORIDE, FLUORIDE, AND NITRATE CONCENTRATIONS SHOWN FOR ALL WELLS BECAUSE THEY ARE THE ONLY ANIONS THAT EXCEEDED THEIR RESPECTIVE WQCC STANDARDS.
7. IN ACCORDANCE WITH JANUARY 2024 FACILITY-WIDE GROUNDWATER MONITORING WORK PLAN.
8. B = SAMPLE CONCENTRATION DETECTED WITHIN FIVE TIMES THE LABORATORY BLANK CONCENTRATION.
9. [R] = RESULT NOT USABLE FOR PROJECT OBJECTIVES PER DATA REVIEW LOCATED IN APPENDIX E.

LABEL KEY:
Cl: 124 - CHLORIDE CONCENTRATION (WQCC STANDARD = 250 mg/L)
Fl: 1.02 - FLUORIDE CONCENTRATION (WQCC STANDARD = 1.6 mg/L)
NO3: 9.50 - NITRATE CONCENTRATION (WQCC STANDARD = 10.0 mg/L)

PINK HIGHLIGHTED VALUES IN EXCEEDANCE OF WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD.

LEGEND

- MONITORING WELL
- RECOVERY WELL
- WATER WELL
- WQCC STANDARD EXCEEDED AT THIS LOCATION
- RAIL
- FENCE
- BUILDINGS

0 175 350 FEET
1" = 350'
1:4,200

N

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Phone: 512.329.6080

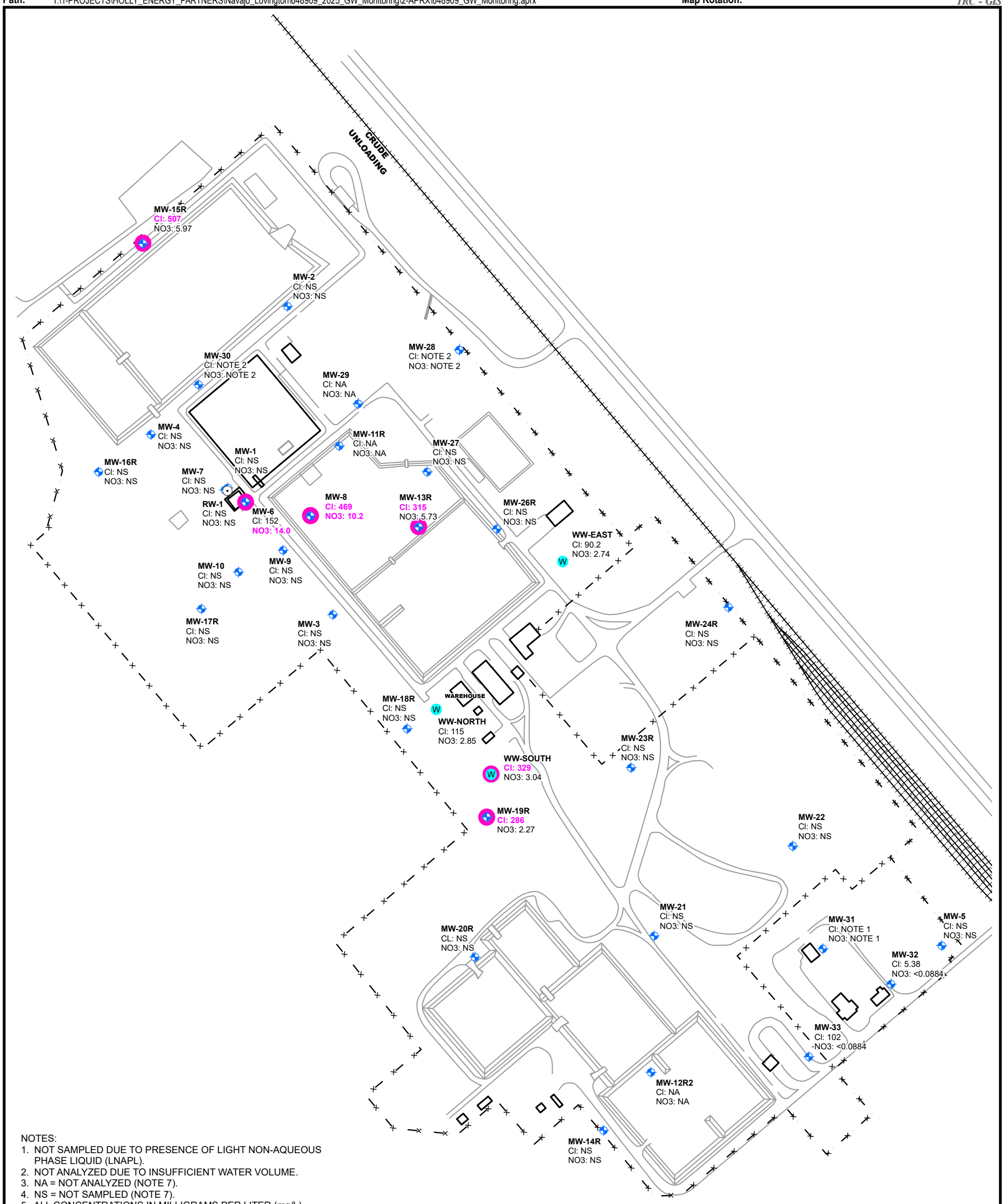
PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
ANIONS CONCENTRATION MAP - APRIL 2024

DRAWN BY:	J. WEST
CHECKED BY:	A. ELJURI
APPROVED BY:	J. SPEER
DATE:	APRIL 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 5

Plot Date: 3/11/2025, 12:49:45 PM by JWEST -- LAYOUT: ANSI B (11"x17")
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Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:
TRC - GIS



NOTES:
1. NOT SAMPLED DUE TO PRESENCE OF LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL).
2. NOT ANALYZED DUE TO INSUFFICIENT WATER VOLUME.
3. NA = NOT ANALYZED (NOTE 7).
4. NS = NOT SAMPLED (NOTE 7).
5. ALL CONCENTRATIONS IN MILLIGRAMS PER LITER (mg/L).
6. CHLORIDE AND NITRATE CONCENTRATIONS SHOWN FOR ALL WELLS BECAUSE THEY ARE THE ONLY ANIONS THAT EXCEEDED THEIR RESPECTIVE WQCC STANDARDS.
7. IN ACCORDANCE WITH JANUARY 2024 FACILITY-WIDE GROUNDWATER MONITORING WORK PLAN.

LABEL KEY:
Cl: 329 - CHLORIDE CONCENTRATION (WQCC STANDARD = 250 mg/L)
NO3: 3.04 - NITRATE CONCENTRATION (WQCC STANDARD = 10.0 mg/L)

PINK HIGHLIGHTED VALUES IN EXCEEDANCE OF WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD.

LEGEND

- MONITORING WELL
- RECOVERY WELL
- WATER WELL
- WQCC STANDARD EXCEEDED AT THIS LOCATION
- RAIL
- FENCE
- BUILDINGS

0 175 350 FEET
1" = 350'
1:4,200
N

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PROJECT:
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GW-014, LOVINGTON REFINERY, LOVINGTON, NM

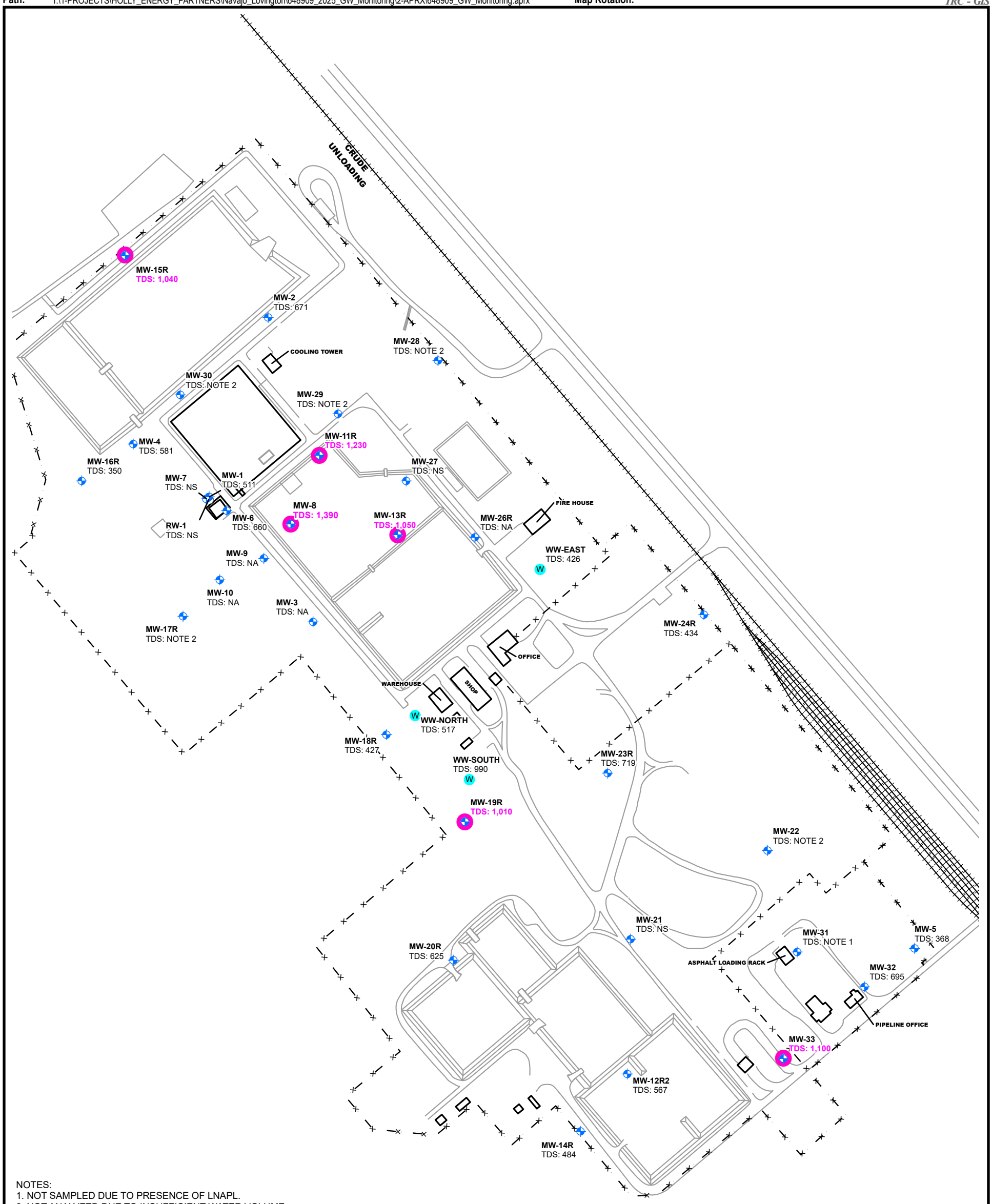
TITLE:
ANIONS CONCENTRATION MAP - OCTOBER 2024

DRAWN BY:	J. WEST
CHECKED BY:	M. O'BRIEN
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 6

Plot Date: 3/11/2025, 08:38:34 AM by JWEST -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\Navajo_Lovington\648909_2025_GW_Monitoring\2-APRX\648909_GW_Monitoring.aprx
Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:

TRC - GIS



NOTES:
1. NOT SAMPLED DUE TO PRESENCE OF LNAPL.
2. NOT ANALYZED DUE TO INSUFFICIENT WATER VOLUME.
3. NA = NOT ANALYZED (NOTE 6).
4. NS = NOT SAMPLED (NOTE 6).
5. ALL CONCENTRATIONS IN MILLIGRAM PER LITER (mg/L).
6. IN ACCORDANCE WITH JANUARY 2024 FACILITY-WIDE GROUNDWATER MONITORING WORK PLAN.

LABEL KEY:
TDS: 1,010 - TOTAL DISSOLVED SOLIDS CONCENTRATION (WQCC STANDARD = 1,000 mg/L)

PINK HIGHLIGHTED VALUES IN EXCEEDANCE OF WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD.

LEGEND

- MONITORING WELL
- RECOVERY WELL
- WATER WELL
- WQCC STANDARD EXCEEDED AT THIS LOCATION
- RAIL
- FENCE
- BUILDINGS

0 175 350 FEET
1" = 350'
1:4,200

N

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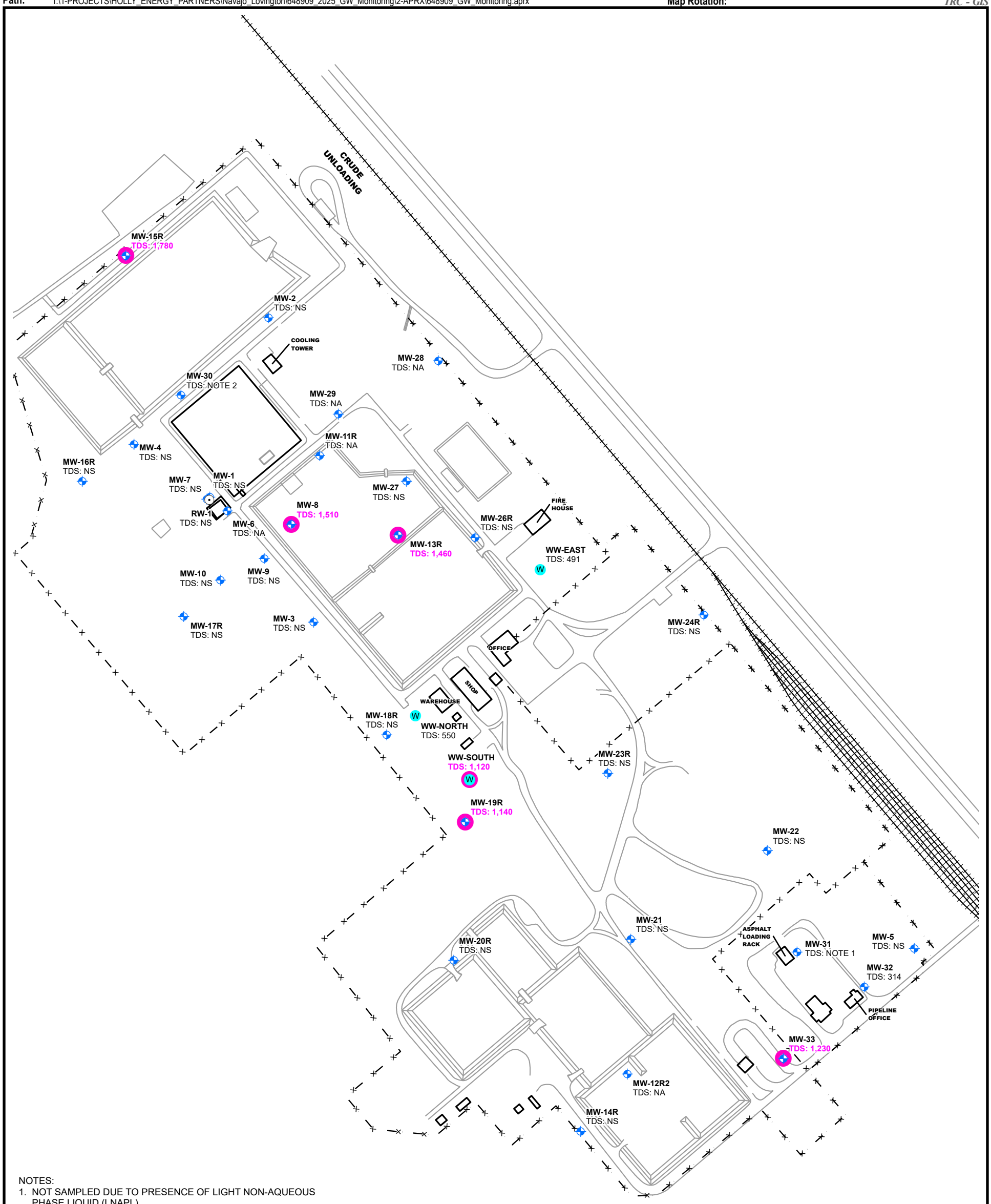
PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
TOTAL DISSOLVED SOLIDS CONCENTRATION MAP - APRIL 2024

DRAWN BY:	J. WEST
CHECKED BY:	M. O'BRIEN
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 7

Plot Date: 3/11/2025, 08:59:51 AM by JWEST -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\Navajo_Lovington\648909_2025_GW_Monitoring\2-APRX\648909_GW_Monitoring.aprx
Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:
TRC - GIS



NOTES:
1. NOT SAMPLED DUE TO PRESENCE OF LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL).
2. NOT ANALYZED DUE TO INSUFFICIENT WATER VOLUME.
3. NA = NOT ANALYZED (NOTE 6).
4. NS = NOT SAMPLED (NOTE 6).
5. ALL CONCENTRATIONS IN MILLIGRAMS PER LITER (mg/L).
6. IN ACCORDANCE WITH JANUARY 2024 FACILITY-WIDE GROUNDWATER MONITORING WORK PLAN.

LABEL KEY:
TDS: 1,230 - TOTAL DISSOLVED SOLIDS CONCENTRATION (WQCC STANDARD = 1,000 mg/L)

PINK HIGHLIGHTED VALUES IN EXCEEDANCE OF WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD.

LEGEND

MONITORING WELL
RECOVERY WELL
WATER WELL
WQCC STANDARD EXCEEDED AT THIS LOCATION
RAIL
FENCE
BUILDINGS

0 175 350 FEET
1" = 350'
1:4,200

N

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Suite #250
Austin, TX 78752
Phone: 512.329.6080

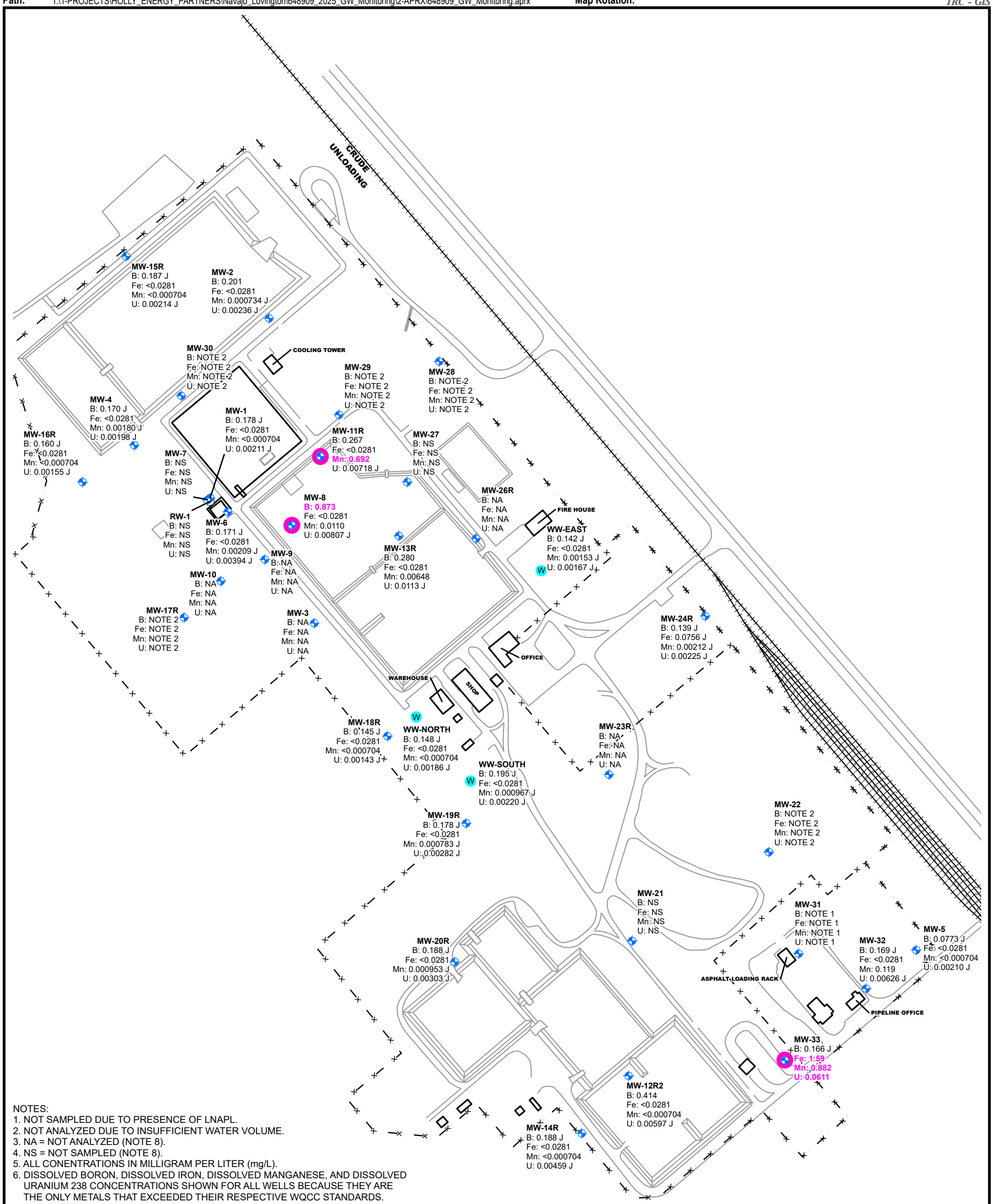
PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
TOTAL DISSOLVED SOLIDS CONCENTRATION MAP - OCTOBER 2024

DRAWN BY:	J. WEST
CHECKED BY:	M. O'BRIEN
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 8

Plot Date: 3/11/2025, 09:15:12 AM by JWEST -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\Navajo_Lovington\648909_2025_GW_Monitoring\2-APRX\648909_GW_Monitoring.aprx
Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:
TRC - GIS



NOTES:
1. NOT SAMPLED DUE TO PRESENCE OF LNAPL.
2. NOT ANALYZED DUE TO INSUFFICIENT WATER VOLUME.
3. NA = NOT ANALYZED (NOTE 8).
4. NS = NOT SAMPLED (NOTE 8).
5. ALL CONENTRATIONS IN MILLIGRAM PER LITER (mg/L).
6. DISSOLVED BORON, DISSOLVED IRON, DISSOLVED MANGANESE, AND DISSOLVED URANIUM 238 CONCENTRATIONS SHOWN FOR ALL WELLS BECAUSE THEY ARE THE ONLY METALS THAT EXCEEDED THEIR RESPECTIVE WQCC STANDARDS.
7. J = ANALYTE DETECTED BELOW REPORTING LIMIT, ESTIMATED VALUE.
8. IN ACCORDANCE WITH JANUARY 2024 FACILITY-WIDE GROUNDWATER MONITORING WORK PLAN.

LABEL KEY:
B: 0.873 - DISSOLVED BORON CONCENTRATION (WQCC STANDARD = 0.75 mg/L)
Fe: 1.59 - DISSOLVED IRON CONCENTRATION (WQCC STANDARD = 1.0 mg/L)
Mn: 0.882 - DISSOLVED MANGANESE CONCENTRATION (WQCC STANDARD = 0.2 mg/L)
U: 0.0611 - DISSOLVED URANIUM 238 CONCENTRATION (WQCC STANDARD = 0.03 mg/L)

PINK HIGHLIGHTED VALUES IN EXCEEDANCE OF WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD.

LEGEND

- MONITORING WELL
- RECOVERY WELL
- WATER WELL
- WQCC STANDARD EXCEEDED AT THIS LOCATION
- RAIL
- FENCE
- BUILDINGS

0 175 350 FEET
1" = 350'
1:4,200
N

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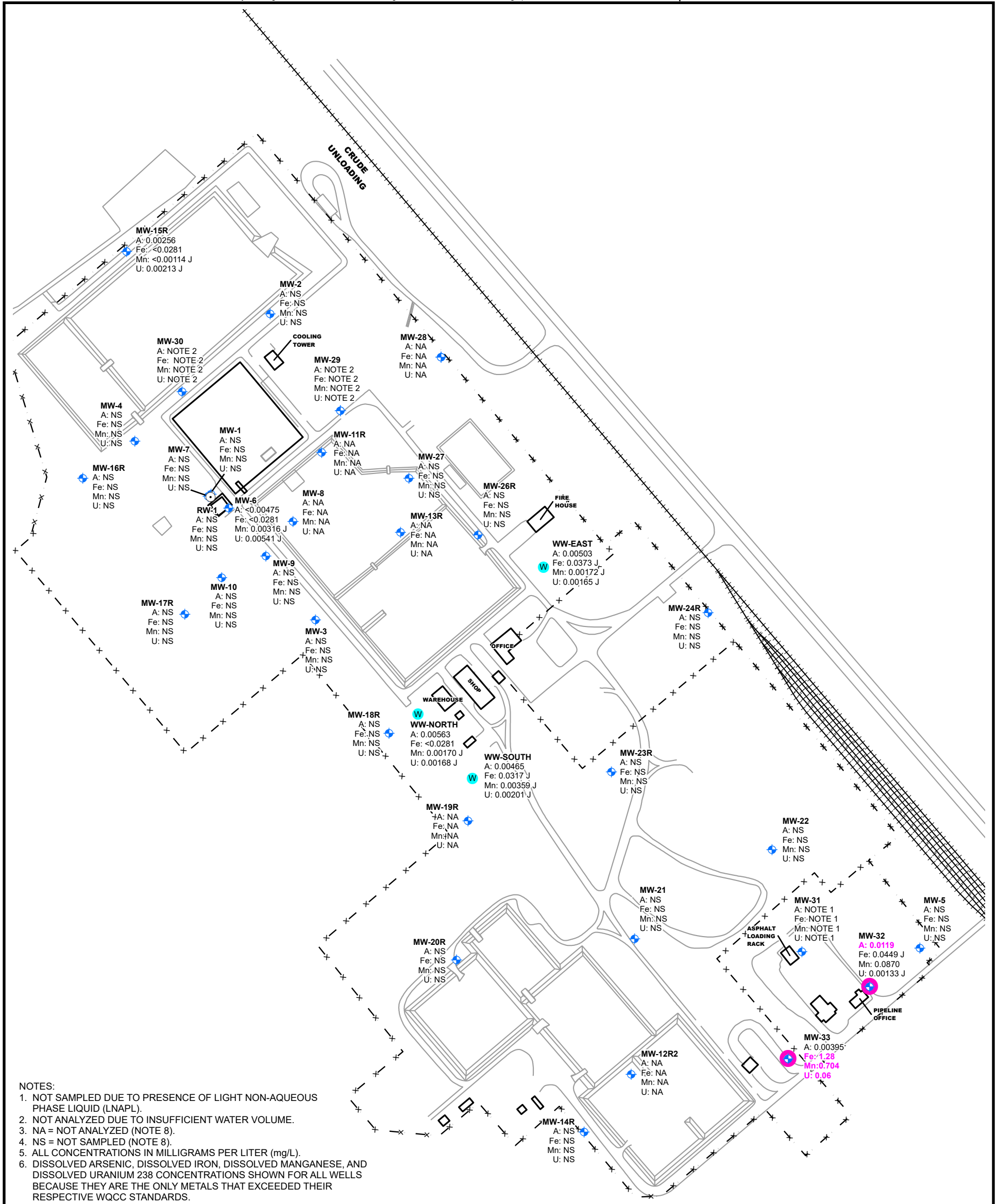
PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
METALS CONCENTRATION MAP - ARRIL 2024

DRAWN BY:	J. WEST
CHECKED BY:	M. O'BRIEN
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 9

Plot Date: 3/11/2025, 12:57:59 PM by JWEST -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\Navajo_Lovington\648909_2025_GW_Monitoring\2-APRX\648909_GW_Monitoring.aprx
Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:
TRC - GIS



NOTES:
1. NOT SAMPLED DUE TO PRESENCE OF LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL).
2. NOT ANALYZED DUE TO INSUFFICIENT WATER VOLUME.
3. NA = NOT ANALYZED (NOTE 8).
4. NS = NOT SAMPLED (NOTE 8).
5. ALL CONCENTRATIONS IN MILLIGRAMS PER LITER (mg/L).
6. DISSOLVED ARSENIC, DISSOLVED IRON, DISSOLVED MANGANESE, AND DISSOLVED URANIUM 238 CONCENTRATIONS SHOWN FOR ALL WELLS BECAUSE THEY ARE THE ONLY METALS THAT EXCEEDED THEIR RESPECTIVE WQCC STANDARDS.
7. J = ANALYTE DETECTED BELOW REPORTING LIMIT, ESTIMATED VALUE.
8. IN ACCORDANCE WITH DECEMBER 2017 FACILITY-WIDE GROUNDWATER MONITORING WORK PLAN.

LABEL KEY:
A: 0.0114 - DISSOLVED ARSENIC CONCENTRATION (WQCC STANDARD = 0.01 mg/L)
Fe: 1.28 - DISSOLVED IRON CONCENTRATION (WQCC STANDARD = 1.0 mg/L)
Mn: 0.704 - DISSOLVED MANGANESE CONCENTRATION (WQCC STANDARD = 0.2 mg/L)
U: 0.06 - DISSOLVED URANIUM 238 CONCENTRATION (WQCC STANDARD = 0.03 mg/L)

PINK HIGHLIGHTED VALUES IN EXCEEDANCE OF WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD.

LEGEND

MONITORING WELL
RECOVERY WELL
WATER WELL
WQCC STANDARD EXCEEDED AT THIS LOCATION
RAIL
FENCE
BUILDINGS

0 175 350 FEET
1" = 350'
1:4,200
N

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Austin, TX 78752
Phone: 512.329.6080

PROJECT:
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GW-014, LOVINGTON REFINERY, LOVINGTON, NM

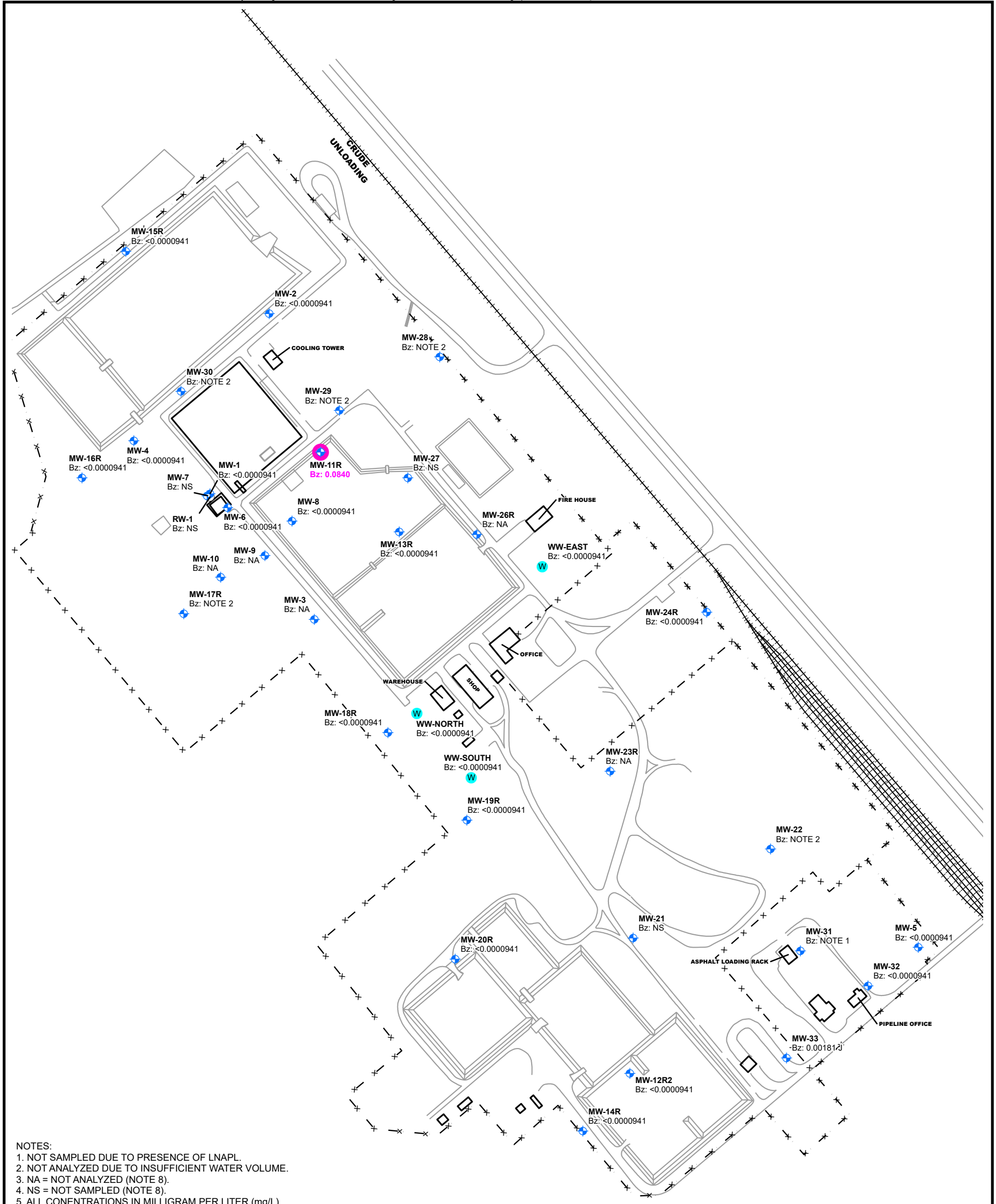
TITLE:
METALS CONCENTRATION MAP - OCTOBER 2024

DRAWN BY:	J. WEST
CHECKED BY:	M. O'BRIEN
APPROVED BY:	J. SPEER
DATE:	APRIL 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 10

Plot Date: 3/11/2025, 09:41:56 AM by JWEST -- LAYOUT: ANSI B (11"x17")
Path: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\Navajo_Lovington\648909_2025_GW_Monitoring\2-APRX\648909_GW_Monitoring.aprx
Coordinate System: NAD 1983 UTM Zone 10N (Meter)
Map Rotation:

TRC - GIS



NOTES:
1. NOT SAMPLED DUE TO PRESENCE OF LNAPL.
2. NOT ANALYZED DUE TO INSUFFICIENT WATER VOLUME.
3. NA = NOT ANALYZED (NOTE 8).
4. NS = NOT SAMPLED (NOTE 8).
5. ALL CONENTRATIONS IN MILLIGRAM PER LITER (mg/L).
6. BENZENE CONCENTRATIONS SHOWN FOR ALL WELLS BECAUSE IT IS THE ONLY ORGANIC CONSTITUENT THAT EXCEEDED ITS RESPECTIVE WQCC STANDARD.
7. J = ANALYTE DETECTED BELOW REPORTING LIMIT, ESTIMATED VALUE.
8. IN ACCORDANCE WITH JANUARY 2024 FACILITY-WIDE GROUNDWATER MONITORING WORK PLAN.

LABEL KEY:
Bz: 0.0840 - BENZENE CONCENTRATION (WQCC STANDARD = 0.005 mg/L)

PINK HIGHLIGHTED VALUES IN EXCEEDANCE OF WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD.

LEGEND

- MONITORING WELL
- RECOVERY WELL
- WATER WELL
- WQCC STANDARD EXCEEDED AT THIS LOCATION
- RAIL
- FENCE
- BUILDINGS

0 175 350 FEET
1" = 350'
1:4,200

N

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505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

PROJECT:
HF SINCLAIR NAVAJO REFINING LLC
GW-014, LOVINGTON REFINERY, LOVINGTON, NM

TITLE:
BENZENE CONCENTRATION MAP - APRIL 2024

DRAWN BY:	J. WEST
CHECKED BY:	M. O'BRIEN
APPROVED BY:	J. SPEER
DATE:	MARCH 2025
PROJ. NO.:	648909
FILE:	648909_GW_Monitoring.aprx

FIGURE 11

TABLES

Released to Imaging: 5/2/2025 9:53:52 AM

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-1 [2,6]	3838.40	3838.19	3739.19 to 3709.19	04/30/09	- -	106.35	136.10	0.00	106.35	3732.05	NA
				06/10/09	- -	106.49	NM	0.00	106.49	3731.91	-0.14
				06/19/09	- -	106.57	129.12	0.00	106.57	3731.83	-0.08
				07/02/09	- -	106.74	129.13	0.00	106.74	3731.66	-0.17
				07/24/09	- -	106.83	129.11	0.00	106.83	3731.57	-0.09
				09/24/09	- -	107.31	129.12	0.00	107.31	3731.09	-0.48
				10/27/09	- -	107.44	129.10	0.00	107.44	3730.96	-0.13
				01/13/10	- -	107.57	129.11	0.00	107.57	3730.83	-0.13
				04/01/10	- -	107.51	NM	0.00	107.51	3730.89	0.06
				08/11/10	- -	108.09	129.16	0.00	108.09	3730.31	-0.58
				02/23/11	- -	108.12	129.14	0.00	108.12	3730.28	-0.03
				07/12/11	- -	109.00	129.11	0.00	109.00	3729.40	-0.88
				02/02/12	- -	109.68	129.12	0.00	109.68	3728.72	-0.68
				07/23/12	- -	110.88	128.87	0.00	110.88	3727.52	-1.20
				02/18/13	- -	110.51	129.22	0.00	110.51	3727.89	0.37
				08/19/13	- -	111.55	130.60	0.00	111.55	3726.85	-1.04
				02/24/14	- -	112.49	129.35	0.00	112.49	3725.91	-0.94
				08/18/14	- -	113.37	129.09	0.00	113.37	3725.03	-0.88
				02/23/15	- -	113.82	129.20	0.00	113.82	3724.58	-0.45
				08/24/15	- -	114.56	129.19	0.00	114.56	3723.84	-0.74
				03/07/16	- -	114.81	129.19	0.00	114.81	3723.59	-0.25
				08/15/16	- -	115.42	129.19	0.00	115.42	3722.98	-0.61
				02/06/17	- -	115.81	129.19	0.00	115.81	3722.59	-0.39
				06/22/17	- -	115.88	129.22	0.00	115.88	3722.52	-0.07
				08/17/17	- -	116.34	129.22	0.00	116.34	3722.06	-0.46
				04/05/18	- -	116.63	129.22	0.00	116.63	3721.77	-0.29
				10/01/18	- -	116.67	129.22	0.00	116.67	3721.73	-0.04
				04/04/19	- -	118.06	129.22	0.00	118.06	3720.34	-1.39
				10/24/19	- -	119.35	129.22	0.00	119.35	3719.05	-1.29
				06/18/20	- -	120.01	129.22	0.00	120.01	3718.39	-0.66
				10/08/20	- -	120.91	129.22	0.00	120.91	3717.49	-0.90
				04/15/21	- -	120.94	129.22	0.00	120.94	3717.46	-0.03
				09/16/21	- -	121.49	129.22	0.00	121.49	3716.91	-0.55
				04/14/22	- -	121.24	129.22	0.00	121.24	3717.16	0.25
				10/13/22	- -	122.49	129.22	0.00	122.49	3715.91	-1.25
				03/23/23	- -	122.70	129.22	0.00	122.70	3715.70	-0.21
				10/05/23	- -	123.87	129.22	0.00	123.87	3714.53	-1.17
				04/04/24	- -	124.31	129.22	0.00	124.31	3714.09	-0.44
				10/03/24	- -	126.53	129.22	0.00	126.53	3711.87	-2.22

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-2 [2,6]	3837.35	3837.27	3740.94 to 3710.94	06/22/09	- -	104.32	126.41	0.00	104.32	3733.03	NA
				01/13/10	- -	105.44	126.68	0.00	105.44	3731.91	-1.12
				08/11/10	- -	105.97	126.42	0.00	105.97	3731.38	-0.53
				02/23/11	- -	105.92	126.46	0.00	105.92	3731.43	0.05
				07/12/11	- -	107.22	126.47	0.00	107.22	3730.13	-1.30
				01/30/12	- -	107.55	126.47	0.00	107.55	3729.80	-0.33
				07/23/12	- -	108.72	126.48	0.00	108.72	3728.63	-1.17
				02/18/13	- -	108.15	126.69	0.00	108.15	3729.20	0.57
				08/19/13	- -	109.43	126.75	0.00	109.43	3727.92	-1.28
				02/24/14	- -	110.59	127.70	0.00	110.59	3726.76	-1.16
				08/18/14	- -	111.25	126.58	0.00	111.25	3726.10	-0.66
				02/23/15	- -	111.45	126.77	0.00	111.45	3725.90	-0.20
				08/24/15	- -	112.13	126.75	0.00	112.13	3725.22	-0.68
				03/07/16	- -	112.02	126.71	0.00	112.02	3725.33	0.11
				08/15/16	- -	113.01	126.70	0.00	113.01	3724.34	-0.99
				02/06/17	- -	112.96	126.70	0.00	112.96	3724.39	0.05
				06/22/17	- -	113.44	126.69	0.00	113.44	3723.91	-0.48
				08/16/17	- -	113.73	126.69	0.00	113.73	3723.62	-0.29
				04/05/18	- -	114.15	126.69	0.00	114.15	3723.20	-0.42
				10/01/18	- -	114.93	126.69	0.00	114.93	3722.42	-0.78
				04/04/19	- -	115.40	126.69	0.00	115.40	3721.95	-0.47
				10/24/19	- -	116.99	126.69	0.00	116.99	3720.36	-1.59
				06/18/20	- -	117.90	126.69	0.00	117.90	3719.45	-0.91
				10/08/20	- -	118.80	126.69	0.00	118.80	3718.55	-0.90
				04/15/21	- -	118.37	126.69	0.00	118.37	3718.98	0.43
				09/16/21	- -	118.58	126.69	0.00	118.58	3718.77	-0.21
				04/14/22	- -	118.20	126.69	0.00	118.20	3719.15	0.38
				10/13/22	- -	120.18	126.69	0.00	120.18	3717.17	-1.98
				03/23/23	- -	119.88	126.69	0.00	119.88	3717.47	0.30
				10/05/23	- -	121.14	126.69	0.00	121.14	3716.21	-1.26
				04/04/24	- -	121.15	126.69	0.00	121.15	3716.20	-0.01
				10/03/24	- -	124.87	126.69	0.00	124.87	3712.48	-3.72
MW-3 [2,6]	3831.65	3831.73	3731.20 to 3701.20	06/16/09	- -	102.65	130.45	0.00	102.65	3729.00	NA
				01/13/10	- -	103.29	130.69	0.00	103.29	3728.36	-0.64
				08/11/10	- -	104.82	130.42	0.00	104.82	3726.83	-1.53
				09/28/10	- -	104.70	NM	0.00	104.70	3726.95	0.12
				02/23/11	- -	104.11	130.47	0.00	104.11	3727.54	0.59
				07/12/11	- -	104.89	130.50	0.00	104.89	3726.76	-0.78
				01/30/12	- -	105.22	130.45	0.00	105.22	3726.43	-0.33
				07/23/12	- -	107.59	130.46	0.00	107.59	3724.06	-2.37
				02/18/13	- -	106.21	130.63	0.00	106.21	3725.44	1.38
				08/19/13	- -	108.11	130.88	0.00	108.11	3723.54	-1.90
				02/24/14	- -	108.45	130.75	0.00	108.45	3723.20	-0.34
				08/18/14	- -	110.33	130.71	0.00	110.33	3721.32	-1.88
				02/23/15	- -	110.35	130.60	0.00	110.35	3721.30	-0.02
				08/24/15	- -	111.14	130.57	0.00	111.14	3720.51	-0.79
				03/07/16	- -	112.20	130.51	0.00	112.20	3719.45	-1.06
				08/15/16	- -	112.68	130.68	0.00	112.68	3718.97	-0.48
				02/06/17	- -	112.74	130.61	0.00	112.74	3718.91	-0.06
				06/22/17	- -	112.76	130.59	0.00	112.76	3718.89	-0.02
				08/16/17	- -	112.94	130.59	0.00	112.94	3718.71	-0.18
				04/05/18	- -	113.40	130.59	0.00	113.40	3718.25	-0.46
				10/01/18	- -	114.50	130.59	0.00	114.50	3717.15	-1.10
				04/04/19	- -	114.37	130.59	0.00	114.37	3717.28	0.13
				10/24/19	- -	115.28	130.59	0.00	115.28	3716.37	-0.91
				06/18/20	- -	116.31	130.59	0.00	116.31	3715.34	-1.03
				10/08/20	- -	117.27	130.59	0.00	117.27	3714.38	-0.96
				04/15/21	- -	117.53	130.59	0.00	117.53	3714.12	-0.26
				09/16/21	- -	118.05	130.59	0.00	118.05	3713.60	-0.52
				04/14/22	- -	117.59	130.59	0.00	117.59	3714.06	0.46
				10/13/22	- -	118.53	130.59	0.00	118.53	3713.12	-0.94
				03/23/23	- -	119.26	130.59	0.00	119.26	3712.39	-0.73
				10/05/23	- -	120.22	130.59	0.00	120.22	3711.43	-0.96
				04/04/24	- -	120.57	130.59	0.00	120.57	3711.08	-0.35
				10/03/24	- -	122.31	130.59	0.00	122.31	3709.34	-1.74

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-4 [2,6]	3839.89	3839.76	3741.76 to 3711.76	06/16/09	- -	106.79	128.02	0.00	106.79	3733.10	NA
				01/13/10	- -	107.72	127.94	0.00	107.72	3732.17	-0.93
				08/11/10	- -	108.19	128.03	0.00	108.19	3731.70	-0.47
				09/28/10	- -	108.47	NM	0.00	108.47	3731.42	-0.28
				02/23/11	- -	108.31	127.82	0.00	108.31	3731.58	0.16
				07/12/11	- -	109.27	128.02	0.00	109.27	3730.62	-0.96
				01/30/12	- -	109.91	128.02	0.00	109.91	3729.98	-0.64
				07/23/12	- -	111.00	127.82	0.00	111.00	3728.89	-1.09
				02/18/13	- -	110.70	127.95	0.00	110.70	3729.19	0.30
				08/19/13	- -	111.60	128.01	0.00	111.60	3728.29	-0.90
				02/24/14	- -	112.78	127.80	0.00	112.78	3727.11	-1.18
				08/18/14	- -	113.42	127.63	0.00	113.42	3726.47	-0.64
				02/23/15	- -	113.89	127.68	0.00	113.89	3726.00	-0.47
				08/24/15	- -	114.47	127.99	0.00	114.47	3725.42	-0.58
				03/07/16	- -	114.66	127.78	0.00	114.66	3725.23	-0.19
				08/15/16	- -	115.38	128.10	0.00	115.38	3724.51	-0.72
				02/06/17	- -	115.71	128.04	0.00	115.71	3724.18	-0.33
				06/22/17	- -	115.88	127.73	0.00	115.88	3724.01	-0.17
				08/17/17	- -	116.12	127.73	0.00	116.12	3723.77	-0.24
				04/05/18	- -	116.73	127.73	0.00	116.73	3723.16	-0.61
				10/01/18	- -	117.74	127.73	0.00	117.74	3722.15	-1.01
				04/04/19	- -	118.25	127.73	0.00	118.25	3721.64	-0.51
				10/24/19	- -	119.54	127.73	0.00	119.54	3720.35	-1.29
				06/18/20	- -	120.32	127.73	0.00	120.32	3719.57	-0.78
				10/08/20	- -	121.18	127.73	0.00	121.18	3718.71	-0.86
				04/15/21	- -	121.06	127.73	0.00	121.06	3718.83	0.12
				09/16/21	- -	121.53	127.73	0.00	121.53	3718.36	-0.47
				04/14/22	- -	121.41	127.73	0.00	121.41	3718.48	0.12
				10/13/22	- -	122.82	127.73	0.00	122.82	3717.07	-1.41
				03/23/23	- -	122.97	127.73	0.00	122.97	3716.92	-0.15
				10/05/23	- -	124.25	127.73	0.00	124.25	3715.64	-1.28
				04/04/24	- -	124.81	127.73	0.00	124.81	3715.08	-0.56
				10/03/24	- -	127.07	127.73	0.00	127.07	3712.82	-2.26
MW-5 [2,6]	3819.15	3816.13	3730.85 to 3700.85	06/16/09	- -	90.84	NM	0.00	90.84	3728.31	NA
				01/13/10	- -	92.02	118.30	0.00	92.02	3727.13	-1.18
				08/11/10	- -	92.67	117.93	0.00	92.67	3726.48	-0.65
				02/23/11	- -	92.68	118.00	0.00	92.68	3726.47	-0.01
				07/12/11	- -	93.38	117.97	0.00	93.38	3725.77	-0.70
				01/31/12	- -	94.75	117.75	0.00	94.75	3724.40	-1.37
				07/23/12	- -	95.22	117.92	0.00	95.22	3723.93	-0.47
				02/18/13	- -	95.95	118.85	0.00	95.95	3723.20	-0.73
				08/19/13	- -	96.65	117.90	0.00	96.65	3722.50	-0.70
				02/24/14	- -	97.06	117.45	0.00	97.06	3722.09	-0.41
				08/18/14	- -	97.57	117.22	0.00	97.57	3721.58	-0.51
				02/23/15	- -	98.01	117.19	0.00	98.01	3721.14	-0.44
				08/24/15	- -	98.46	117.22	0.00	98.46	3720.69	-0.45
				03/07/16	- -	98.62	117.12	0.00	98.62	3720.53	-0.16
				08/15/16	- -	99.40	117.70	0.00	99.40	3719.75	-0.78
				02/06/17	- -	100.00	117.29	0.00	100.00	3719.15	-0.60
				06/22/17	- -	100.11	117.82	0.00	100.11	3719.04	-0.11
				08/16/17	- -	100.51	117.82	0.00	100.51	3718.64	-0.40
				04/05/18	- -	100.85	117.82	0.00	100.85	3718.30	-0.34
				10/01/18	- -	102.01	117.82	0.00	102.01	3717.14	-1.16
				04/04/19	- -	102.23	117.82	0.00	102.23	3716.92	-0.22
				10/24/19	- -	103.42	117.82	0.00	103.42	3715.73	-1.19
				06/18/20	- -	103.91	117.82	0.00	103.91	3715.24	-0.49
				10/08/20	- -	104.49	117.82	0.00	104.49	3714.66	-0.58
				04/15/21	- -	104.99	117.82	0.00	104.99	3714.16	-0.50
				09/16/21	- -	105.65	117.82	0.00	105.65	3713.50	-0.66
				04/14/22	- -	105.96	117.82	0.00	105.96	3713.19	-0.31
				10/13/22	- -	106.82	117.82	0.00	106.82	3712.33	-0.86
				03/23/23	- -	107.59	117.82	0.00	107.59	3711.56	-0.77
				10/05/23	- -	108.25	117.82	0.00	108.25	3710.90	-0.66
				04/04/24	- -	108.80	117.82	0.00	108.80	3710.35	-0.55
				10/03/24	- -	109.83	117.82	0.00	109.83	3709.32	-1.03

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HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-6 [2,6]	3838.16	3838.17	3738.17 to 3708.17	06/18/09	- -	106.64	129.48	0.00	106.64	3731.52	NA
				07/24/09	- -	106.92	129.71	0.00	106.92	3731.24	-0.28
				09/24/09	- -	107.44	129.74	0.00	107.44	3730.72	-0.52
				10/27/09	- -	107.55	129.73	0.00	107.55	3730.61	-0.11
				01/13/10	- -	107.64	129.71	0.00	107.64	3730.52	-0.09
				02/02/10	- -	107.69	NM	0.00	107.69	3730.47	-0.05
				04/01/10	- -	107.65	NM	0.00	107.65	3730.51	0.04
				08/11/10	- -	108.00	129.71	0.00	108.00	3730.16	-0.35
				02/23/11	- -	108.22	129.72	0.00	108.22	3729.94	-0.22
				07/12/11	- -	109.09	129.74	0.00	109.09	3729.07	-0.87
				02/02/12	- -	109.78	129.74	0.00	109.78	3728.38	-0.69
				07/23/12	- -	111.00	129.47	0.00	111.00	3727.16	-1.22
				02/18/13	- -	110.60	133.32	0.00	110.60	3727.56	0.40
				08/19/13	- -	111.70	130.84	0.00	111.70	3726.46	-1.10
				02/24/14	- -	112.57	130.00	0.00	112.57	3725.59	-0.87
				08/18/14	- -	113.50	129.71	0.00	113.50	3724.66	-0.93
				02/23/15	- -	114.00	129.90	0.00	114.00	3724.16	-0.50
				08/24/15	- -	114.63	129.69	0.00	114.63	3723.53	-0.63
				03/07/16	- -	115.02	129.69	0.00	115.02	3723.14	-0.39
				08/15/16	- -	115.62	129.69	0.00	115.62	3722.54	-0.60
				02/06/17	- -	115.99	129.69	0.00	115.99	3722.17	-0.37
				06/22/17	- -	116.05	129.76	0.00	116.05	3722.11	-0.06
				08/17/17	- -	116.31	129.76	0.00	116.31	3721.85	-0.26
				04/05/18	- -	116.78	129.76	0.00	116.78	3721.38	-0.47
				10/01/18	- -	117.81	129.76	0.00	117.81	3720.35	-1.03
				04/04/19	- -	118.19	129.76	0.00	118.19	3719.97	-0.38
				10/24/19	- -	119.38	129.76	0.00	119.38	3718.78	-1.19
				06/18/20	- -	120.11	129.76	0.00	120.11	3718.05	-0.73
				10/08/20	- -	121.02	129.76	0.00	121.02	3717.14	-0.91
				04/15/21	- -	121.11	129.76	0.00	121.11	3717.05	-0.09
				09/16/21	- -	121.57	129.76	0.00	121.57	3716.59	-0.46
				04/14/22	- -	121.34	129.76	0.00	121.34	3716.82	0.23
				10/13/22	- -	122.51	129.76	0.00	122.51	3715.65	-1.17
				03/23/23	- -	122.83	129.76	0.00	122.83	3715.33	-0.32
				10/05/23	- -	123.95	129.76	0.00	123.95	3714.21	-1.12
				04/04/24	- -	124.37	129.76	0.00	124.37	3713.79	-0.42
				10/03/24	- -	126.58	129.76	0.00	126.58	3711.58	-2.21

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Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-7 [2,6]	3838.42	3838.19	3738.19 to 3708.19	04/30/09	- -	106.37	135.54	0.00	106.37	3732.05	NA
				06/10/09	- -	106.48	NM	0.00	106.48	3731.94	-0.11
				06/19/09	- -	106.68	129.34	0.00	106.68	3731.74	-0.20
				07/02/09	- -	106.75	129.51	0.00	106.75	3731.67	-0.07
				07/24/09	- -	106.84	129.52	0.00	106.84	3731.58	-0.09
				09/24/09	- -	107.33	129.29	0.00	107.33	3731.09	-0.49
				10/27/09	- -	107.46	129.53	0.00	107.46	3730.96	-0.13
				01/13/10	- -	107.60	129.55	0.00	107.60	3730.82	-0.14
				02/02/10	- -	107.61	NM	0.00	107.61	3730.81	-0.01
				04/01/10	- -	107.52	NM	0.00	107.52	3730.90	0.09
				08/11/10	- -	108.10	129.57	0.00	108.10	3730.32	-0.58
				02/23/11	- -	108.13	129.52	0.00	108.13	3730.29	-0.03
				07/12/11	- -	109.01	129.50	0.00	109.01	3729.41	-0.88
				02/02/12	- -	109.71	129.26	0.00	109.71	3728.71	-0.70
				07/23/12	- -	109.88	129.30	0.00	109.88	3728.54	-0.17
				02/18/13	- -	110.52	129.55	0.00	110.52	3727.90	-0.64
				08/19/13	- -	111.57	129.17	0.00	111.57	3726.85	-1.05
				02/24/14	- -	112.50	129.90	0.00	112.50	3725.92	-0.93
				08/18/14	- -	113.40	129.58	0.00	113.40	3725.02	-0.90
				02/23/15	- -	113.86	129.62	0.00	113.86	3724.56	-0.46
				08/24/15	- -	114.47	129.64	0.00	114.47	3723.95	-0.61
				03/07/16	- -	114.84	129.64	0.00	114.84	3723.58	-0.37
				08/15/16	- -	115.43	129.64	0.00	115.43	3722.99	-0.59
				02/06/17	- -	115.80	129.64	0.00	115.80	3722.62	-0.37
				06/22/17	- -	115.89	129.64	0.00	115.89	3722.53	-0.09
				08/17/17	- -	116.32	129.64	0.00	116.32	3722.10	-0.43
				04/05/18	- -	116.71	129.64	0.00	116.71	3721.71	-0.39
				10/01/18	- -	117.67	129.64	0.00	117.67	3720.75	-0.96
				04/04/19	- -	118.14	129.64	0.00	118.14	3720.28	-0.47
				10/24/19	- -	119.37	129.64	0.00	119.37	3719.05	-1.23
				06/18/20	- -	120.04	129.64	0.00	120.04	3718.38	-0.67
				10/08/20	- -	120.92	129.64	0.00	120.92	3717.50	-0.88
				04/15/21	- -	120.94	129.64	0.00	120.94	3717.48	-0.02
				09/16/21	- -	121.48	129.64	0.00	121.48	3716.94	-0.54
				04/14/22	- -	121.26	129.64	0.00	121.26	3717.16	0.22
				10/13/22	- -	122.51	129.64	0.00	122.51	3715.91	-1.25
				03/23/23	- -	122.74	129.64	0.00	122.74	3715.68	-0.23
				10/05/23	- -	123.91	129.64	0.00	123.91	3714.51	-1.17
				04/04/24	- -	124.33	129.64	0.00	124.33	3714.09	-0.42
				10/03/24	- -	126.50	129.64	0.00	126.50	3711.92	-2.17

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-8 [3,6]	3839.98	3836.44	3737.68 to 3707.68	06/18/09	- -	109.37	132.30	0.00	109.37	3730.61	NA
				01/13/10	- -	110.47	132.56	0.00	110.47	3729.51	-1.10
				08/11/10	- -	111.05	132.34	0.00	111.05	3728.93	-0.58
				02/23/11	- -	111.07	132.34	0.00	111.07	3728.91	-0.02
				07/12/11	- -	111.98	132.36	0.00	111.98	3728.00	-0.91
				02/01/12	- -	112.91	132.32	0.00	112.91	3727.07	-0.93
				07/23/12	- -	113.94	132.33	0.00	113.94	3726.04	-1.03
				02/18/13	- -	113.27	132.32	0.00	113.27	3726.71	0.67
				08/19/13	- -	114.69	132.39	0.00	114.69	3725.29	-1.42
				02/24/14	- -	115.44	132.60	0.00	115.44	3724.54	-0.75
				08/18/14	- -	116.56	132.16	0.00	116.56	3723.42	-1.12
				02/23/15	- -	116.91	132.10	0.00	116.91	3723.07	-0.35
				08/24/15	- -	117.61	132.20	0.00	117.61	3722.37	-0.70
				03/07/16	- -	118.05	132.04	0.00	118.05	3721.93	-0.44
				08/15/16	- -	118.73	132.15	0.00	118.73	3721.25	-0.68
				02/06/17	- -	119.02	132.15	0.00	119.02	3720.96	-0.29
				06/22/17	- -	119.05	132.15	0.00	119.05	3720.93	-0.03
				08/17/17	- -	119.40	132.15	0.00	119.40	3720.58	-0.35
				04/05/18	- -	119.81	132.15	0.00	119.81	3720.17	-0.41
				10/01/18	- -	120.82	132.15	0.00	120.82	3719.16	-1.01
				04/04/19	- -	121.05	132.15	0.00	121.05	3718.93	-0.23
				10/24/19	- -	122.17	132.15	0.00	122.17	3717.81	-1.12
				06/18/20	- -	122.93	132.15	0.00	122.93	3717.05	-0.76
				10/08/20	- -	123.87	132.15	0.00	123.87	3716.11	-0.94
				04/15/21	- -	123.90	132.15	0.00	123.90	3716.08	-0.03
				09/16/21	- -	124.51	132.15	0.00	124.51	3715.47	-0.61
				04/14/22	- -	124.26	132.15	0.00	124.26	3715.72	0.25
				10/13/22	- -	125.41	132.15	0.00	125.41	3714.57	-1.15
				03/23/23	INACCESSIBLE[16]						
				10/05/23	- -	126.82	132.15	0.00	126.82	3713.16	-1.41
				04/04/24	- -	127.15	132.15	0.00	127.15	3712.83	-0.33
				10/03/24	- -	129.25	132.15	0.00	129.25	3710.73	-2.10
MW-9 [3,6]	3835.22	3835.13	3736.13 to 3706.13	06/16/09	- -	104.58	129.18	0.00	104.58	3730.64	NA
				01/13/10	- -	105.61	129.48	0.00	105.61	3729.61	-1.03
				08/11/10	- -	106.37	129.21	0.00	106.37	3728.85	-0.76
				02/23/11	- -	106.28	129.24	0.00	106.28	3728.94	0.09
				07/12/11	- -	107.17	129.26	0.00	107.17	3728.05	-0.89
				01/31/12	- -	107.38	129.30	0.00	107.38	3727.84	-0.21
				07/23/12	- -	109.20	128.90	0.00	109.20	3726.02	-1.82
				02/18/13	- -	108.47	129.41	0.00	108.47	3726.75	0.73
				08/19/13	- -	109.91	129.38	0.00	109.91	3725.31	-1.44
				02/24/14	- -	110.63	129.35	0.00	110.63	3724.59	-0.72
				08/18/14	- -	111.81	129.01	0.00	111.81	3723.41	-1.18
				02/23/15	- -	112.20	124.08	0.00	112.20	3723.02	-0.39
				08/24/15	- -	112.89	129.06	0.00	112.89	3722.33	-0.69
				03/07/16	- -	113.47	129.07	0.00	113.47	3721.75	-0.58
				08/15/16	- -	114.02	129.15	0.00	114.02	3721.20	-0.55
				02/06/17	- -	114.37	129.24	0.00	114.37	3720.85	-0.35
				06/22/17	- -	114.38	129.18	0.00	114.38	3720.84	-0.01
				08/16/17	- -	114.67	129.18	0.00	114.67	3720.55	-0.29
				04/05/18	- -	115.12	129.18	0.00	115.12	3720.10	-0.45
				10/01/18	- -	116.18	129.18	0.00	116.18	3719.04	-1.06
				04/04/19	- -	116.40	129.18	0.00	116.40	3718.82	-0.22
				10/24/19	- -	117.44	129.18	0.00	117.44	3717.78	-1.04
				06/18/20	- -	118.21	129.18	0.00	118.21	3717.01	-0.77
				10/08/20	- -	119.09	129.18	0.00	119.09	3716.13	-0.88
				04/15/21	- -	119.21	129.18	0.00	119.21	3716.01	-0.12
				09/16/21	- -	119.87	129.18	0.00	119.87	3715.35	-0.66
				04/14/22	- -	119.54	129.18	0.00	119.54	3715.68	0.33
				10/13/22	- -	120.65	129.18	0.00	120.65	3714.57	-1.11
				03/23/23	- -	121.15	129.18	0.00	121.15	3714.07	-0.50
				10/05/23	- -	122.18	129.18	0.00	122.18	3713.04	-1.03
				04/04/24	- -	122.52	129.18	0.00	122.52	3712.70	-0.34
				10/03/24	- -	124.60	129.18	0.00	124.60	3710.62	-2.08

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-10 [3,6]	3833.66	3833.49	3734.52 to 3704.52	06/16/09	- -	102.57	129.14	0.00	102.57	3731.09	NA
				01/13/10	- -	103.51	127.42	0.00	103.51	3730.15	-0.94
				08/11/10	- -	104.31	128.47	0.00	104.31	3729.35	-0.80
				02/23/11	- -	104.26	128.54	0.00	104.26	3729.40	0.05
				07/12/11	- -	105.08	128.46	0.00	105.08	3728.58	-0.82
				01/31/12	- -	105.73	128.40	0.00	105.73	3727.93	-0.65
				07/23/12	- -	107.05	128.50	0.00	107.05	3726.61	-1.32
				02/18/13	- -	106.63	128.59	0.00	106.63	3727.03	0.42
				08/19/13	- -	107.78	128.56	0.00	107.78	3725.88	-1.15
				02/24/14	- -	108.53	128.40	0.00	108.53	3725.13	-0.75
				08/18/14	- -	109.62	128.15	0.00	109.62	3724.04	-1.09
				02/23/15	- -	110.08	128.35	0.00	110.08	3723.58	-0.46
				08/24/15	- -	110.73	128.42	0.00	110.73	3722.93	-0.65
				03/07/16	- -	111.32	128.20	0.00	111.32	3722.34	-0.59
				08/15/16	- -	111.87	128.20	0.00	111.87	3721.79	-0.55
				02/06/17	- -	112.22	128.26	0.00	112.22	3721.44	-0.35
				06/22/17	- -	112.27	128.45	0.00	112.27	3721.39	-0.05
				08/16/17	- -	112.53	128.45	0.00	112.53	3721.13	-0.26
				04/05/18	- -	113.03	128.45	0.00	113.03	3720.63	-0.50
				10/01/18	- -	114.06	128.45	0.00	114.06	3719.60	-1.03
				04/04/19	- -	114.39	128.45	0.00	114.39	3719.27	-0.33
				10/24/19	- -	115.35	128.45	0.00	115.35	3718.31	-0.96
				06/18/20	- -	116.09	128.45	0.00	116.09	3717.57	-0.74
				10/08/20	- -	116.94	128.45	0.00	116.94	3716.72	-0.85
				04/15/21	- -	117.11	128.45	0.00	117.11	3716.55	-0.17
				09/16/21	- -	117.76	128.45	0.00	117.76	3715.90	-0.65
				04/14/22	- -	117.51	128.45	0.00	117.51	3716.15	0.25
				10/13/22	- -	118.59	128.45	0.00	118.59	3715.07	-1.08
				03/23/23	- -	119.09	128.45	0.00	119.09	3714.57	-0.50
				10/05/23	- -	120.14	128.45	0.00	120.14	3713.52	-1.05
				04/04/24	- -	120.56	128.45	0.00	120.56	3713.10	-0.42
				10/03/24	- -	122.37	128.45	0.00	122.37	3711.29	-1.81

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-11 [4,6,10]	3839.56	3836.14	3741.13 to 3721.13	06/20/02	- -	99.93	NM	0.00	99.93	3739.63	NA
				09/17/02	- -	100.63	NM	0.00	100.63	3738.93	-0.70
				12/19/02	- -	100.50	NM	0.00	100.50	3739.06	0.13
				03/28/03	- -	99.74	NM	0.00	99.74	3739.82	0.76
				06/20/03	- -	100.76	NM	0.00	100.76	3738.80	-1.02
				09/15/03	- -	101.51	NM	0.00	101.51	3738.05	-0.75
				04/30/04	- -	102.31	116.21	0.00	102.31	3737.25	-0.80
				02/21/05	- -	103.80	NM	0.00	103.80	3735.76	-1.49
				06/28/05	- -	104.33	NM	0.00	104.33	3735.23	-0.53
				09/30/05	- -	104.60	NM	0.00	104.60	3734.96	-0.27
				12/29/05	- -	104.81	NM	0.00	104.81	3734.75	-0.21
				04/10/06	- -	105.12	NM	0.00	105.12	3734.44	-0.31
				07/06/06	- -	105.61	NM	0.00	105.61	3733.95	-0.49
				01/26/07	- -	106.63	NM	0.00	106.63	3732.93	-1.02
				03/27/07	- -	106.80	NM	0.00	106.80	3732.76	-0.17
				07/13/07	- -	106.94	NM	0.00	106.94	3732.62	-0.14
				09/12/07	- -	107.22	NM	0.00	107.22	3732.34	-0.28
				12/31/07	- -	106.74	NM	0.00	106.74	3732.82	0.48
				03/26/08	- -	106.81	117.51	0.00	106.81	3732.75	-0.07
				06/13/08	- -	107.40	NM	0.00	107.40	3732.16	-0.59
				09/24/08	- -	108.76	NM	0.00	108.76	3730.80	-1.36
				12/29/08	- -	108.57	NM	0.00	108.57	3730.99	0.19
				03/17/09	- -	107.91	NM	0.00	107.91	3731.65	0.66
				06/18/09	- -	108.65	117.49	0.00	108.65	3730.91	-0.74
				01/13/10	- -	109.81	117.77	0.00	109.81	3729.75	-1.16
				08/11/10	- -	110.16	117.50	0.00	110.16	3729.40	-0.35
				02/23/11	- -	110.32	117.70	0.00	110.32	3729.24	-0.16
				07/12/11	- -	110.31	117.41	0.00	110.31	3729.25	0.01
				02/01/12	- -	112.02	117.37	0.00	112.02	3727.54	-1.71
				07/23/12	- -	113.10	117.38	0.00	113.10	3726.46	-1.08
				02/18/13	- -	112.53	117.75	0.00	112.53	3727.03	0.57
				08/19/13	- -	113.89	117.64	0.00	113.89	3725.67	-1.36
				02/24/14	- -	114.75	117.90	0.00	114.75	3724.81	-0.86
				08/18/14	- -	115.71	117.60	0.00	115.71	3723.85	-0.96
				02/23/15	- -	116.10	117.81	0.00	116.10	3723.46	-0.39
				08/24/15	- -	116.75	117.86	0.00	116.75	3722.81	-0.65
				03/07/16	- -	117.07	118.00	0.00	117.07	3722.49	-0.32
				08/15/16	WELL DRY						
				12/07/16	WELL PLUGGED AND ABANDONED						
MW-11R [10]	3838.51	3835.78	3724.72 to 3704.72	02/06/17	- -	116.82	133.79	0.00	116.82	3721.69	NA
				06/22/17	- -	116.93	133.84	0.00	116.93	3721.58	-0.11
				08/17/17	- -	117.33	133.84	0.00	117.33	3721.18	-0.40
				04/05/18	- -	117.73	133.84	0.00	117.73	3720.78	-0.40
				10/01/18	- -	118.67	133.84	0.00	118.67	3719.84	-0.94
				04/04/19	- -	118.94	133.84	0.00	118.94	3719.57	-0.27
				10/24/19	- -	120.29	133.84	0.00	120.29	3718.22	-1.35
				06/18/20	- -	122.19	133.84	0.00	122.19	3716.32	-1.90
				10/08/20	- -	121.98	133.84	0.00	121.98	3716.53	0.21
				04/15/21	- -	121.91	133.84	0.00	121.91	3716.60	0.07
				09/16/21	- -	122.34	133.84	0.00	122.34	3716.17	-0.43
				04/14/22	- -	122.10	133.84	0.00	122.10	3716.41	0.24
				10/13/22	- -	123.42	133.84	0.00	123.42	3715.09	-1.32
				03/23/23	INACCESSIBLE[16]						
				10/05/23	- -	124.74	133.84	0.00	124.74	3713.77	-1.32
				04/04/24	- -	124.94	133.84	0.00	124.94	3713.57	-0.20
				10/03/24	- -	127.36	133.84	0.00	127.36	3711.15	-2.42

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-12 [4,6,9]	3822.73	3820.29	3742.29 to 3722.29	06/20/02	- -	84.20	NM	0.00	84.20	3738.53	NA
				12/21/02	- -	85.21	NM	0.00	85.21	3737.52	-1.01
				03/28/03	- -	85.35	NM	0.00	85.35	3737.38	-0.14
				06/20/03	- -	85.51	NM	0.00	85.51	3737.22	-0.16
				09/15/03	- -	86.13	NM	0.00	86.13	3736.60	-0.62
				11/02/03	- -	86.57	NM	0.00	86.57	3736.16	-0.44
				04/30/04	- -	87.40	100.55	0.00	87.40	3735.33	-0.83
				02/21/05	- -	88.42	NM	0.00	88.42	3734.31	-1.02
				06/28/05	- -	88.76	NM	0.00	88.76	3733.97	-0.34
				09/30/05	- -	89.12	NM	0.00	89.12	3733.61	-0.36
				12/29/05	- -	89.31	NM	0.00	89.31	3733.42	-0.19
				04/10/06	- -	89.55	NM	0.00	89.55	3733.18	-0.24
				07/06/06	- -	90.03	NM	0.00	90.03	3732.70	-0.48
				01/26/07	- -	90.06	NM	0.00	90.06	3732.67	-0.03
				03/27/07	- -	90.10	NM	0.00	90.10	3732.63	-0.04
				07/13/07	- -	91.66	NM	0.00	91.66	3731.07	-1.56
				09/12/07	- -	92.01	NM	0.00	92.01	3730.72	-0.35
				12/31/07	- -	92.17	NM	0.00	92.17	3730.56	-0.16
				03/26/08	- -	92.39	100.57	0.00	92.39	3730.34	-0.22
				06/13/08	- -	92.59	NM	0.00	92.59	3730.14	-0.20
				09/24/08	- -	93.21	NM	0.00	93.21	3729.52	-0.62
				12/29/08	- -	93.59	NM	0.00	93.59	3729.14	-0.38
				03/17/09	- -	93.75	NM	0.00	93.75	3728.98	-0.16
				06/16/09	- -	93.83	100.51	0.00	93.83	3728.90	-0.08
				01/13/10	- -	94.78	100.71	0.00	94.78	3727.95	-0.95
				08/11/10	- -	95.67	100.56	0.00	95.67	3727.06	-0.89
				02/23/11	- -	95.85	100.56	0.00	95.85	3726.88	-0.18
				07/12/11	- -	96.58	100.55	0.00	96.58	3726.15	-0.73
				02/01/12	- -	97.57	100.57	0.00	97.57	3725.16	-0.99
				07/23/12	- -	98.10	100.50	0.00	98.10	3724.63	-0.53
				02/18/13	- -	98.95	100.50	0.00	98.95	3723.78	-0.85
				06/21/13	DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013						
MW-12R [9,14]	3823.29	3820.77	3734.95 to 3714.95	08/19/13	- -	100.25	108.34	0.00	100.25	3723.04	NA
				02/24/14	- -	100.92	108.50	0.00	100.92	3722.37	-0.67
				08/18/14	- -	101.33	108.22	0.00	101.33	3721.96	-0.41
				02/23/15	- -	101.73	107.50	0.00	101.73	3721.56	-0.40
				08/24/15	- -	102.25	107.72	0.00	102.25	3721.04	-0.52
				03/07/16	- -	102.52	107.61	0.00	102.52	3720.77	-0.27
				08/15/16	- -	103.28	107.52	0.00	103.28	3720.01	-0.76
				02/06/17	- -	103.79	107.50	0.00	103.79	3719.50	-0.51
				06/22/17	- -	103.95	107.39	0.00	103.95	3719.34	-0.16
				08/16/17	- -	104.31	107.39	0.00	104.31	3718.98	-0.36
				04/05/18	- -	>103.63	NA	NA	NA	NA	NA
				10/01/18	- -	>103.60	NA	NA	NA	NA	NA
				04/04/19	- -	>103.60	NA	NA	NA	NA	NA
				10/24/19	- -	107.26	107.39	0.00	107.26	3716.03	-2.95
				06/18/20	WELL DRY						
				08/13/20	DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						
MW-12R2 [14]	3824.00	3820.87	3716.64 to 3696.64	10/08/20	- -	108.93	126.45	0.00	108.93	3715.07	NA
				04/15/21	- -	109.46	126.45	0.00	109.46	3714.54	-0.53
				09/16/21	- -	110.13	126.45	0.00	110.13	3713.87	-0.67
				04/14/22	- -	110.37	126.45	0.00	110.37	3713.63	-0.24
				10/13/22	- -	111.06	126.45	0.00	111.06	3712.94	-0.69
				03/23/23	- -	111.85	126.45	0.00	111.85	3712.15	-0.79
				10/05/23	- -	112.71	126.45	0.00	112.71	3711.29	-0.86
				04/04/24	- -	113.18	126.45	0.00	113.18	3710.82	-0.47
				10/03/24	- -	114.33	126.45	0.00	114.33	3709.67	-1.15

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-13 [5,6,12]	3837.06	3834.75	3738.75 to 3718.75	04/30/04	- -	101.41	119.82	0.00	101.41	3735.65	NA
				02/21/05	- -	103.09	NM	0.00	103.09	3733.97	-1.68
				06/28/05	- -	103.48	NM	0.00	103.48	3733.58	-0.39
				09/30/05	- -	103.80	NM	0.00	103.80	3733.26	-0.32
				12/29/05	- -	104.41	NM	0.00	104.41	3732.65	-0.61
				04/10/06	- -	104.59	NM	0.00	104.59	3732.47	-0.18
				07/06/06	- -	104.94	NM	0.00	104.94	3732.12	-0.35
				01/26/07	- -	106.41	NM	0.00	106.41	3730.65	-1.47
				03/27/07	- -	106.47	NM	0.00	106.47	3730.59	-0.06
				07/13/07	- -	106.93	NM	0.00	106.93	3730.13	-0.46
				09/12/07	- -	107.19	NM	0.00	107.19	3729.87	-0.26
				12/31/07	- -	106.71	NM	0.00	106.71	3730.35	0.48
				03/26/08	- -	107.02	119.75	0.00	107.02	3730.04	-0.31
				06/13/08	- -	107.19	NM	0.00	107.19	3729.87	-0.17
				09/24/08	- -	108.56	NM	0.00	108.56	3728.50	-1.37
				12/29/08	- -	108.71	NM	0.00	108.71	3728.35	-0.15
				03/17/09	- -	108.36	NM	0.00	108.36	3728.70	0.35
				06/16/09	- -	108.58	108.58	0.00	108.58	3728.48	-0.22
				01/13/10	- -	109.68	119.95	0.00	109.68	3727.38	-1.10
				08/11/10	- -	109.72	119.68	0.00	109.72	3727.34	-0.04
				02/23/11	- -	110.14	119.69	0.00	110.14	3726.92	-0.42
				07/12/11	- -	111.17	119.71	0.00	111.17	3725.89	-1.03
				02/01/12	- -	111.81	119.66	0.00	111.81	3725.25	-0.64
				07/23/12	- -	113.11	119.66	0.00	113.11	3723.95	-1.30
				02/18/13	- -	111.84	119.87	0.00	111.84	3725.22	1.27
				08/19/13	- -	113.81	119.95	0.00	113.81	3723.25	-1.97
				02/24/14	- -	114.47	121.50	0.00	114.47	3722.59	-0.66
				08/18/14	- -	115.89	119.89	0.00	115.89	3721.17	-1.42
				02/23/15	- -	116.05	119.88	0.00	116.05	3721.01	-0.16
				08/24/15	- -	116.79	119.83	0.00	116.79	3720.27	-0.74
				03/07/16	- -	117.30	119.76	0.00	117.30	3719.76	-0.51
				08/15/16	- -	117.98	119.70	0.00	117.98	3719.08	-0.68
				02/06/17	- -	118.28	119.79	0.00	118.28	3718.78	-0.30
				06/22/17	- -	118.23	119.81	0.00	118.23	3718.83	0.05
				08/17/17	- -	118.72	119.81	0.00	118.72	3718.34	-0.49
				04/05/18	- -	119.02	119.81	0.00	119.02	3718.04	-0.30
				09/26/18	WELL PLUGGED AND ABANDONED SEPTEMBER 2018						
MW-13R [12]	3838.12	3835.02	3718.64 to 3698.64	10/01/18	- -	121.00	139.48	0.00	121.00	3717.12	NA
				04/04/19	- -	120.97	139.48	0.00	120.97	3717.15	0.03
				10/24/19	- -	122.25	139.48	0.00	122.25	3715.87	-1.28
				06/18/20	- -	123.02	139.48	0.00	123.02	3715.10	-0.77
				10/08/20	- -	124.05	139.48	0.00	124.05	3714.07	-1.03
				04/15/21	- -	124.05	139.48	0.00	124.05	3714.07	0.00
				09/16/21	- -	124.58	139.48	0.00	124.58	3713.54	-0.53
				04/14/22	- -	124.36	139.48	0.00	124.36	3713.76	0.22
				10/13/22	- -	125.36	139.48	0.00	125.36	3712.76	-1.00
				03/23/23	INACCESSIBLE[16]						
				10/05/23	- -	126.90	139.48	0.00	126.90	3711.22	-1.54
				04/04/24	- -	127.02	139.48	0.00	127.02	3711.10	-0.12
				10/03/24	- -	129.09	139.48	0.00	129.09	3709.03	-2.07

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-14 [5,6,12]	3823.03	3820.38	3737.88 to 3717.88	04/30/04	- -	87.46	NM	0.00	87.46	3735.57	NA
				02/21/05	- -	88.48	NM	0.00	88.48	3734.55	-1.02
				06/28/05	- -	88.80	NM	0.00	88.80	3734.23	-0.32
				09/30/05	- -	89.14	NM	0.00	89.14	3733.89	-0.34
				12/29/05	- -	89.34	NM	0.00	89.34	3733.69	-0.20
				04/10/06	- -	89.63	NM	0.00	89.63	3733.40	-0.29
				07/06/06	- -	90.08	NM	0.00	90.08	3732.95	-0.45
				01/26/07	- -	91.02	NM	0.00	91.02	3732.01	-0.94
				03/27/07	- -	91.18	NM	0.00	91.18	3731.85	-0.16
				07/13/07	- -	91.68	NM	0.00	91.68	3731.35	-0.50
				09/12/07	- -	92.02	NM	0.00	92.02	3731.01	-0.34
				12/31/07	- -	92.25	NM	0.00	92.25	3730.78	-0.23
				03/26/08	- -	92.43	105.08	0.00	92.43	3730.60	-0.18
				06/13/08	- -	92.64	NM	0.00	92.64	3730.39	-0.21
				12/29/08	- -	93.60	NM	0.00	93.60	3729.43	-0.96
				03/17/09	- -	93.84	NM	0.00	93.84	3729.19	-0.24
				06/16/09	- -	93.92	105.04	0.00	93.92	3729.11	-0.08
				01/13/10	- -	94.80	105.30	0.00	94.80	3728.23	-0.88
				08/11/10	- -	95.67	105.04	0.00	95.67	3727.36	-0.87
				02/23/11	- -	95.99	105.05	0.00	95.99	3727.04	-0.32
				07/12/11	- -	96.59	105.06	0.00	96.59	3726.44	-0.60
				01/31/12	- -	97.54	105.05	0.00	97.54	3725.49	-0.95
				07/23/12	- -	98.20	105.05	0.00	98.20	3724.83	-0.66
				02/18/13	- -	99.07	105.38	0.00	99.07	3723.96	-0.87
				08/19/13	- -	99.82	105.30	0.00	99.82	3723.21	-0.75
				02/24/14	- -	100.55	105.60	0.00	100.55	3722.48	-0.73
				08/18/14	- -	100.94	105.35	0.00	100.94	3722.09	-0.39
				02/23/15	- -	101.42	105.35	0.00	101.42	3721.61	-0.48
				08/24/15	- -	101.86	105.37	0.00	101.86	3721.17	-0.44
				03/07/16	- -	102.21	105.27	0.00	102.21	3720.82	-0.35
				08/15/16	- -	102.84	105.30	0.00	102.84	3720.19	-0.63
				02/06/17	- -	103.44	105.29	0.00	103.44	3719.59	-0.60
				06/22/17	- -	103.59	105.25	0.00	103.59	3719.44	-0.15
				08/16/17	- -	103.97	105.25	0.00	103.97	3719.06	-0.38
				04/05/18	- -	104.47	105.25	0.00	104.47	3718.56	-0.50
				09/27/18	WELL PLUGGED AND ABANDONED SEPTEMBER 2018						
MW-14R [12]	3823.88	3821.05	3714.60 to 3694.60	10/01/18	- -	106.19	129.28	0.00	106.19	3717.69	NA
				04/04/19	- -	106.60	129.28	0.00	106.60	3717.28	-0.41
				10/24/19	- -	107.49	129.28	0.00	107.49	3716.39	-0.89
				06/18/20	- -	107.59	129.28	0.00	107.59	3716.29	-0.10
				10/08/20	- -	108.43	129.28	0.00	108.43	3715.45	-0.84
				04/15/21	- -	108.71	129.28	0.00	108.71	3715.17	-0.28
				09/16/21	- -	109.65	129.28	0.00	109.65	3714.23	-0.94
				04/14/22	- -	109.79	129.28	0.00	109.79	3714.09	-0.14
				10/13/22	- -	110.66	129.28	0.00	110.66	3713.22	-0.87
				03/23/23	- -	111.59	129.28	0.00	111.59	3712.29	-0.93
				10/05/23	- -	112.38	129.28	0.00	112.38	3711.50	-0.79
				04/04/24	- -	112.65	129.28	0.00	112.65	3711.23	-0.27
				10/03/24	- -	113.60	129.28	0.00	113.60	3710.28	-0.95

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MW-15 [7,8,15]	3840.19	3840.54	3738.54 to 3718.54	08/11/10	- -	106.94	121.68	0.00	106.94	3733.25	NA
				02/23/11	- -	107.01	121.67	0.00	107.01	3733.18	-0.07
				07/12/11	- -	108.32	121.62	0.00	108.32	3731.87	-1.31
				01/30/12	- -	108.54	121.62	0.00	108.54	3731.65	-0.22
				07/23/12	- -	109.77	121.58	0.00	109.77	3730.42	-1.23
				02/18/13	- -	109.22	121.82	0.00	109.22	3730.97	0.55
				08/19/13	- -	110.34	121.83	0.00	110.34	3729.85	-1.12
				02/24/14	- -	111.72	122.05	0.00	111.72	3728.47	-1.38
				08/18/14	- -	112.16	121.70	0.00	112.16	3728.03	-0.44
				02/23/15	- -	112.42	121.80	0.00	112.42	3727.77	-0.26
				08/24/15	- -	113.09	121.78	0.00	113.09	3727.10	-0.67
				03/07/16	- -	112.85	121.67	0.00	112.85	3727.34	0.24
				08/15/16	- -	113.92	121.70	0.00	113.92	3726.27	-1.07
				02/06/17	- -	113.84	121.68	0.00	113.84	3726.35	0.08
				06/22/17	- -	114.40	121.70	0.00	114.40	3725.79	-0.56
				08/16/17	- -	114.57	121.70	0.00	114.57	3725.62	-0.17
				04/05/18	- -	115.19	121.70	0.00	115.19	3725.00	-0.62
				10/01/18	- -	115.93	121.70	0.00	115.93	3724.26	-0.74
				04/04/19	- -	116.51	121.70	0.00	116.51	3723.68	-0.58
				10/24/19	- -	118.22	121.70	0.00	118.22	3721.97	-1.71
				06/18/20	- -	119.24	121.70	0.00	119.24	3720.95	-1.02
				10/08/20	- -	120.11	121.70	0.00	120.11	3720.08	-0.87
				04/15/21	- -	119.46	121.70	0.00	119.46	3720.73	0.65
				06/09/21	WELL PLUGGED AND ABANDONED JUNE 2021						
MW-15R [15]	3839.99	3839.82	3722.00 to 3702.00	09/16/21	- -	119.46	138.49	0.00	119.46	3720.53	NA
				04/14/22	- -	119.08	138.49	0.00	119.08	3720.91	0.38
				10/13/22	- -	121.20	138.49	0.00	121.20	3718.79	-2.12
				03/23/23	- -	120.85	138.49	0.00	120.85	3719.14	0.35
				10/05/23	- -	122.30	138.49	0.00	122.30	3717.69	-1.45
				04/04/24	- -	122.41	138.49	0.00	122.41	3717.58	-0.11
				10/03/24	- -	126.09	138.49	0.00	126.09	3713.90	-3.68

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MW-16 [7,8,14]	3838.20	3838.50	3738.59 to 3718.59	08/11/10	- -	106.18	119.61	0.00	106.18	3732.02	NA
				02/23/11	- -	106.34	119.67	0.00	106.34	3731.86	-0.16
				07/12/11	- -	107.21	119.61	0.00	107.21	3730.99	-0.87
				01/30/12	- -	107.93	119.47	0.00	107.93	3730.27	-0.72
				07/23/12	- -	108.98	119.14	0.00	108.98	3729.22	-1.05
				02/18/13	- -	108.69	119.63	0.00	108.69	3729.51	0.29
				08/19/13	- -	109.51	119.50	0.00	109.51	3728.69	-0.82
				02/24/14	- -	110.73	119.65	0.00	110.73	3727.47	-1.22
				08/18/14	- -	111.35	119.25	0.00	111.35	3726.85	-0.62
				02/23/15	- -	111.90	119.48	0.00	111.90	3726.30	-0.55
				08/24/15	- -	112.42	119.22	0.00	112.42	3725.78	-0.52
				03/07/16	- -	112.64	119.22	0.00	112.64	3725.56	-0.22
				08/15/16	- -	113.31	119.20	0.00	113.31	3724.89	-0.67
				02/06/17	- -	113.78	119.00	0.00	113.78	3724.42	-0.47
				06/22/17	- -	113.93	119.07	0.00	113.93	3724.27	-0.15
				08/17/17	- -	114.08	119.07	0.00	114.08	3724.12	-0.15
				04/05/18	- -	114.79	119.07	0.00	114.79	3723.41	-0.71
				10/01/18	- -	>115.87	NA	NA	NA	NA	NA
				04/04/19	- -	>115.05	NA	NA	NA	NA	NA
				10/24/19	- -	117.64	119.07	0.00	117.64	3720.56	-2.85
				06/18/20	- -	118.35	119.07	0.00	118.35	3719.85	-0.71
				08/13/20	DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						
MW-16R [14]	3837.87	3837.85	3720.47 to 3700.47	10/08/20	- -	118.89	137.00	0.00	118.89	3718.98	NA
				04/15/21	- -	118.79	137.00	0.00	118.79	3719.08	0.10
				09/16/21	- -	119.13	137.00	0.00	119.13	3718.74	-0.34
				04/14/22	- -	119.28	137.00	0.00	119.28	3718.59	-0.15
				10/13/22	- -	120.61	137.00	0.00	120.61	3717.26	-1.33
				03/23/23	- -	120.80	137.00	0.00	120.80	3717.07	-0.19
				10/05/23	- -	122.16	137.00	0.00	122.16	3715.71	-1.36
				04/04/24	- -	122.61	137.00	0.00	122.61	3715.26	-0.45
				10/03/24	- -	124.79	137.00	0.00	124.79	3713.08	-2.18
MW-17 [7,8,9]	3831.43	3831.79	3735.79 to 3715.79	08/11/10	- -	101.65	115.92	0.00	101.65	3729.78	NA
				02/23/11	- -	101.71	115.69	0.00	101.71	3729.72	-0.06
				07/12/11	- -	102.41	115.55	0.00	102.41	3729.02	-0.70
				06/21/13	DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013						
MW-17R [9]	3831.14	3831.48	3731.19 to 3711.19	08/19/13	- -	104.79	119.95	0.00	104.79	3726.35	NA
				02/24/14	- -	105.59	119.00	0.00	105.59	3725.55	-0.80
				08/18/14	- -	106.58	117.80	0.00	106.58	3724.56	-0.99
				02/23/15	- -	107.11	117.30	0.00	107.11	3724.03	-0.53
				08/24/15	- -	107.73	117.53	0.00	107.73	3723.41	-0.62
				03/07/16	- -	108.35	117.30	0.00	108.35	3722.79	-0.62
				08/15/16	- -	108.90	117.28	0.00	108.90	3722.24	-0.55
				02/06/17	- -	109.28	117.12	0.00	109.28	3721.86	-0.38
				06/22/17	- -	109.31	116.88	0.00	109.31	3721.83	-0.03
				08/16/17	- -	109.61	116.88	0.00	109.61	3721.53	-0.30
				04/05/18	- -	110.04	116.88	0.00	110.04	3721.10	-0.43
				10/01/18	- -	111.15	116.88	0.00	111.15	3719.99	-1.11
				04/04/19	- -	111.47	116.88	0.00	111.47	3719.67	-0.32
				10/24/19	- -	112.45	116.88	0.00	112.45	3718.69	-0.98
				06/18/20	- -	113.10	116.88	0.00	113.10	3718.04	-0.65
				10/08/20	- -	113.92	116.88	0.00	113.92	3717.22	-0.82
				04/15/21	- -	114.11	116.88	0.00	114.11	3717.03	-0.19
				09/16/21	- -	114.82	116.88	0.00	114.82	3716.32	-0.71
				04/14/22	- -	114.67	116.88	0.00	114.67	3716.47	0.15
				10/13/22	- -	115.67	116.88	0.00	115.67	3715.47	-1.00
				03/23/23	- -	116.20	116.88	0.00	116.20	3714.94	-0.53
				10/05/23	WELL DRY						
				04/04/24	WELL DRY						
				10/03/24	WELL DRY						

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-18 [7,8,15]	3825.05	3825.52	3725.52 to 3705.52	08/11/10	- -	108.54	119.36	0.00	108.54	3716.51	NA
				09/30/10	- -	104.47	NM	0.00	104.47	3720.58	4.07
				02/23/11	- -	100.02	119.38	0.00	100.02	3725.03	4.45
				07/12/11	- -	100.73	119.38	0.00	100.73	3724.32	-0.71
				01/31/12	- -	100.49	119.38	0.00	100.49	3724.56	0.24
				07/23/12	- -	110.18	119.37	0.00	110.18	3714.87	-9.69
				02/18/13	- -	102.51	119.59	0.00	102.51	3722.54	7.67
				08/19/13	- -	109.79	119.68	0.00	109.79	3715.26	-7.28
				02/24/14	- -	105.20	119.85	0.00	105.20	3719.85	4.59
				08/18/14	- -	115.51	119.67	0.00	115.51	3709.54	-10.31
				02/23/15	- -	109.82	119.60	0.00	109.82	3715.23	5.69
				08/24/15	- -	110.97	119.55	0.00	110.97	3714.08	-1.15
				03/07/16	- -	117.00	119.61	0.00	117.00	3708.05	-6.03
				08/15/16	- -	116.06	119.60	0.00	116.06	3708.99	0.94
				02/06/17	- -	114.27	120.90	0.00	114.27	3710.78	1.79
				06/22/17	- -	113.83	119.61	0.00	113.83	3711.22	0.44
				08/16/17	- -	114.69	119.61	0.00	114.69	3710.36	-0.86
				04/05/18	- -	114.58	119.61	0.00	114.58	3710.47	0.11
				10/01/18	- -	115.61	119.61	0.00	115.61	3709.44	-1.03
				04/04/19	- -	112.14	119.61	0.00	112.14	3712.91	3.47
				10/24/19	- -	111.20	119.61	0.00	111.20	3713.85	0.94
				06/18/20	- -	116.25	119.61	0.00	116.25	3708.80	-5.05
				10/08/20	- -	117.21	119.61	0.00	117.21	3707.84	-0.96
				04/15/21	DRY WELL						
				06/09/21	WELL PLUGGED AND ABANDONED JUNE 2021						
MW-18R [15]	3825.33	3825.32	3712.78 to 3692.78	09/16/21	- -	116.75	133.05	0.00	116.75	3708.58	NA
				04/14/22	- -	115.42	133.05	0.00	115.42	3709.91	1.33
				10/13/22	- -	116.29	133.05	0.00	116.29	3709.04	-0.87
				03/23/23	- -	117.77	133.05	0.00	117.77	3707.56	-1.48
				10/05/23	- -	118.82	133.05	0.00	118.82	3706.51	-1.05
				04/04/24	- -	118.98	133.05	0.00	118.98	3706.35	-0.16
				10/03/24	- -	120.19	133.05	0.00	120.19	3705.14	-1.21
MW-19 [7,8,15]	3823.97	3824.48	3730.37 to 3710.37	08/11/10	- -	102.35	113.60	0.00	102.35	3721.62	NA
				09/30/10	- -	98.70	NM	0.00	98.70	3725.27	3.65
				02/23/11	- -	98.32	113.57	0.00	98.32	3725.65	0.38
				07/12/11	- -	101.87	113.56	0.00	101.87	3722.10	-3.55
				01/31/12	- -	100.92	113.54	0.00	100.92	3723.05	0.95
				07/23/12	- -	100.98	113.56	0.00	100.98	3722.99	-0.06
				02/18/13	- -	103.45	113.76	0.00	103.45	3720.52	-2.47
				08/19/13	- -	104.87	113.81	0.00	104.87	3719.10	-1.42
				02/24/14	- -	105.76	114.00	0.00	105.76	3718.21	-0.89
				08/18/14	- -	104.60	113.79	0.00	104.60	3719.37	1.16
				02/23/15	- -	105.22	113.72	0.00	105.22	3718.75	-0.62
				08/24/15	- -	105.94	113.71	0.00	105.94	3718.03	-0.72
				03/07/16	- -	106.75	113.64	0.00	106.75	3717.22	-0.81
				08/15/16	- -	108.23	133.77	0.00	108.23	3715.74	-1.48
				02/06/17	- -	108.27	113.72	0.00	108.27	3715.70	-0.04
				06/22/17	- -	108.31	113.60	0.00	108.31	3715.66	-0.04
				08/16/17	- -	107.88	113.60	0.00	107.88	3716.09	0.43
				04/05/18	- -	109.32	113.60	0.00	109.32	3714.65	-1.44
				10/01/18	- -	>111.40	NA	NA	NA	NA	NA
				04/04/19	- -	>111.40	NA	NA	NA	NA	NA
				10/24/19	- -	110.89	113.60	0.00	110.89	3713.08	-1.57
				06/18/20	- -	112.75	113.60	0.00	112.75	3711.22	-1.86
				10/08/20	WELL DRY						
				04/15/21	WELL DRY						
				06/09/21	WELL PLUGGED AND ABANDONED JUNE 2021						
MW-19R [15]	3824.24	3824.33	3712.61 to 3692.61	09/16/21	- -	114.00	132.13	0.00	114.00	3710.24	NA
				04/14/22	- -	113.57	132.13	0.00	113.57	3710.67	0.43
				10/13/22	- -	113.05	132.13	0.00	113.05	3711.19	0.52
				03/23/23	- -	116.19	132.13	0.00	116.19	3708.05	-3.14
				10/05/23	- -	117.46	132.13	0.00	117.46	3706.78	-1.27
				04/04/24	- -	116.36	132.13	0.00	116.36	3707.88	1.10
				10/03/24	- -	118.92	132.13	0.00	118.92	3705.32	-2.56

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-20 [7,8,15]	3824.58	3825.03	3733.03 to 3713.03	08/11/10	- -	97.75	111.82	0.00	97.75	3726.83	NA
				02/23/11	- -	97.42	111.82	0.00	97.42	3727.16	0.33
				07/12/11	- -	98.50	111.74	0.00	98.50	3726.08	-1.08
				01/31/12	- -	99.07	111.74	0.00	99.07	3725.51	-0.57
				07/23/12	- -	99.75	111.75	0.00	99.75	3724.83	-0.68
				02/18/13	- -	100.50	111.78	0.00	100.50	3724.08	-0.75
				08/19/13	- -	101.60	111.98	0.00	101.60	3722.98	-1.10
				02/24/14	- -	102.37	112.15	0.00	102.37	3722.21	-0.77
				08/18/14	- -	102.81	111.87	0.00	102.81	3721.77	-0.44
				02/23/15	- -	103.25	111.82	0.00	103.25	3721.33	-0.44
				08/24/15	- -	103.80	112.89	0.00	103.80	3720.78	-0.55
				03/07/16	- -	104.28	111.78	0.00	104.28	3720.30	-0.48
				08/15/16	- -	105.18	111.88	0.00	105.18	3719.40	-0.90
				02/06/17	- -	105.57	111.70	0.00	105.57	3719.01	-0.39
				06/22/17	- -	105.63	111.70	0.00	105.63	3718.95	-0.06
				08/17/17	- -	105.89	111.70	0.00	105.89	3718.69	-0.26
				04/05/18	- -	106.49	111.70	0.00	106.49	3718.09	-0.60
				10/01/18	- -	107.45	111.70	0.00	107.45	3717.13	-0.96
				04/04/19	- -	107.75	111.70	0.00	107.75	3716.83	-0.30
				10/24/19	- -	108.68	111.70	0.00	108.68	3715.90	-0.93
				06/18/20	- -	109.38	111.70	0.00	109.38	3715.20	-0.70
				10/08/20	- -	109.95	111.70	0.00	109.95	3714.63	-0.57
				04/15/21	- -	110.70	111.70	0.00	110.70	3713.88	-0.75
				06/09/21	WELL PLUGGED AND ABANDONED JUNE 2021						
MW-20R [15]	3824.63	3824.86	3719.04 to 3699.04	09/16/21	- -	111.19	126.09	0.00	111.19	3713.44	NA
				04/14/22	- -	111.14	126.09	0.00	111.14	3713.49	0.05
				10/13/22	- -	111.45	126.09	0.00	111.45	3713.18	-0.31
				03/23/23	- -	112.85	126.09	0.00	112.85	3711.78	-1.40
				10/05/23	- -	112.12	126.09	0.00	112.12	3712.51	0.73
				04/04/24	- -	113.96	126.09	0.00	113.96	3710.67	-1.84
				10/03/24	- -	115.32	126.09	0.00	115.32	3709.31	-1.36
MW-21 [7,8]	3820.26	3820.59	3731.59 to 3711.59	08/11/10	- -	94.06	108.31	0.00	94.06	3726.20	NA
				02/23/11	- -	93.84	108.27	0.00	93.84	3726.42	0.22
				07/12/11	- -	94.85	108.23	0.00	94.85	3725.41	-1.01
				01/31/12	- -	95.72	108.18	0.00	95.72	3724.54	-0.87
				07/23/12	- -	96.22	108.24	0.00	96.22	3724.04	-0.50
				02/18/13	- -	96.92	108.48	0.00	96.92	3723.34	-0.70
				08/19/13	- -	98.04	108.52	0.00	98.04	3722.22	-1.12
				02/24/14	- -	98.65	108.55	0.00	98.65	3721.61	-0.61
				08/18/14	- -	99.07	108.32	0.00	99.07	3721.19	-0.42
				02/23/15	- -	99.48	108.19	0.00	99.48	3720.78	-0.41
				08/24/15	- -	100.05	108.32	0.00	100.05	3720.21	-0.57
				03/07/16	- -	100.30	108.15	0.00	100.30	3719.96	-0.25
				08/15/16	- -	101.18	108.15	0.00	101.18	3719.08	-0.88
				02/06/17	- -	101.59	110.20	0.00	101.59	3718.67	-0.41
				06/22/17	- -	101.72	108.10	0.00	101.72	3718.54	-0.13
				08/17/17	- -	102.10	108.10	0.00	102.10	3718.16	-0.38
				04/05/18	- -	102.54	108.10	0.00	102.54	3717.72	-0.44
				10/01/18	- -	103.58	108.10	0.00	103.58	3716.68	-1.04
				04/04/19	- -	103.90	108.10	0.00	103.90	3716.36	-0.32
				10/24/19	- -	105.02	108.10	0.00	105.02	3715.24	-1.12
				06/18/20	- -	105.57	108.10	0.00	105.57	3714.69	-0.55
				10/08/20	- -	106.31	108.10	0.00	106.31	3713.95	-0.74
				04/15/21	- -	106.72	108.10	0.00	106.72	3713.54	-0.41
				09/16/21	- -	107.31	108.10	0.00	107.31	3712.95	-0.59
				04/14/22	- -	107.42	108.10	0.00	107.42	3712.84	-0.11
				10/13/22	- -	107.93	108.20	0.00	107.93	3712.33	-0.51
				03/23/23	WELL DRY						
				10/05/23	WELL DRY						
				04/04/24	REMOVED FROM MONITORING PROGRAM[17]						
				10/21/24	DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-22 [7,8]	3821.82	3819.27	3731.20 to 3711.27	08/11/10	- -	95.62	110.80	0.00	95.62	3726.20	NA
				02/23/11	- -	95.36	110.78	0.00	95.36	3726.46	0.26
				07/12/11	- -	96.26	110.74	0.00	96.26	3725.56	-0.90
				01/31/12	- -	97.56	110.72	0.00	97.56	3724.26	-1.30
				07/23/12	- -	97.90	110.70	0.00	97.90	3723.92	-0.34
				02/18/13	- -	98.45	110.92	0.00	98.45	3723.37	-0.55
				08/19/13	- -	99.54	110.85	0.00	99.54	3722.28	-1.09
				02/24/14	- -	99.97	111.00	0.00	99.97	3721.85	-0.43
				08/18/14	- -	100.52	110.26	0.00	100.52	3721.30	-0.55
				02/23/15	- -	100.85	109.10	0.00	100.85	3720.97	-0.33
				08/24/15	- -	101.42	109.05	0.00	101.42	3720.40	-0.57
				03/07/16	- -	101.56	109.19	0.00	101.56	3720.26	-0.14
				08/15/16	- -	102.45	109.50	0.00	102.45	3719.37	-0.89
				02/06/17	- -	102.99	109.58	0.00	102.99	3718.83	-0.54
				06/22/17	- -	103.04	109.60	0.00	103.04	3718.78	-0.05
				08/17/17	- -	103.51	109.60	0.00	103.51	3718.31	-0.47
				04/05/18	- -	103.85	109.60	0.00	103.85	3717.97	-0.34
				10/01/18	- -	104.96	109.60	0.00	104.96	3716.86	-1.11
				04/04/19	- -	105.12	109.60	0.00	105.12	3716.70	-0.16
				10/24/19	- -	106.45	109.60	0.00	106.45	3715.37	-1.33
				06/18/20	- -	106.97	109.60	0.00	106.97	3714.85	-0.52
				10/08/20	- -	107.70	109.60	0.00	107.70	3714.12	-0.73
				04/15/21	- -	107.97	109.60	0.00	107.97	3713.85	-0.27
				09/16/21	- -	109.18	110.30	0.00	109.18	3712.64	-1.21
				04/14/22	- -	109.29	110.30	0.00	109.29	3712.53	-0.11
				10/13/22	- -	109.51	110.30	0.00	109.51	3712.31	-0.22
				03/23/23	WELL DRY						
				10/05/23	WELL DRY						
				04/04/24	WELL DRY						
				10/03/24	WELL DRY						
MW-23 [7,8,14]	3825.58	3822.91	3730.91 to 3710.91	08/11/10	- -	100.49	115.10	0.00	100.49	3725.09	NA
				02/23/11	- -	99.80	115.12	0.00	99.80	3725.78	0.69
				07/12/11	- -	101.29	115.10	0.00	101.29	3724.29	-1.49
				02/01/12	- -	102.04	115.07	0.00	102.04	3723.54	-0.75
				07/23/12	- -	102.39	114.98	0.00	102.39	3723.19	-0.35
				02/18/13	- -	102.69	115.25	0.00	102.69	3722.89	-0.30
				08/19/13	- -	104.23	115.00	0.00	104.23	3721.35	-1.54
				02/24/14	- -	104.93	115.35	0.00	104.93	3720.65	-0.70
				08/18/14	- -	105.36	119.14	0.00	105.36	3720.22	-0.43
				02/23/15	- -	105.74	114.85	0.00	105.74	3719.84	-0.38
				08/24/15	- -	106.33	114.84	0.00	106.33	3719.25	-0.59
				03/07/16	- -	106.72	114.66	0.00	106.72	3718.86	-0.39
				08/15/16	- -	107.69	114.80	0.00	107.69	3717.89	-0.97
				02/06/17	- -	108.05	114.70	0.00	108.05	3717.53	-0.36
				06/22/17	- -	108.04	114.60	0.00	108.04	3717.54	0.01
				08/17/17	- -	108.41	114.60	0.00	108.41	3717.17	-0.37
				04/05/18	- -	108.86	114.60	0.00	108.86	3716.72	-0.45
				10/01/18	- -	109.90	114.60	0.00	109.90	3715.68	-1.04
				04/04/19	- -	109.89	114.60	0.00	109.89	3715.69	0.01
				10/24/19	- -	112.87	114.60	0.00	112.87	3712.71	-2.98
				06/18/20	- -	112.11	114.60	0.00	112.11	3713.47	0.76
				08/13/20	DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-23R [14]	3825.64	3822.75	3715.96 to 3695.96	10/08/20	- -	112.81	129.63	0.00	112.81	3712.83	NA
				04/15/21	- -	113.17	129.63	0.00	113.17	3712.47	-0.36
				09/16/21	- -	113.53	129.63	0.00	113.53	3712.11	-0.36
				04/14/22	- -	113.46	129.63	0.00	113.46	3712.18	0.07
				10/13/22	- -	113.74	129.63	0.00	113.74	3711.90	-0.28
				03/23/23	- -	115.21	129.63	0.00	115.21	3710.43	-1.47
				10/05/23	- -	115.87	129.63	0.00	115.87	3709.77	-0.66
				04/04/24	- -	116.06	129.63	0.00	116.06	3709.58	-0.19
				10/03/24	- -	117.70	129.63	0.00	117.70	3707.94	-1.64
MW-24 [7,8,15]	3830.50	3830.81	3732.36 to 3712.36	08/11/10	- -	104.04	118.14	0.00	104.04	3726.46	NA
				02/23/11	- -	104.26	118.09	0.00	104.26	3726.24	-0.22
				07/12/11	- -	105.29	118.04	0.00	105.29	3725.21	-1.03
				02/01/12	- -	106.65	119.10	0.00	106.65	3723.85	-1.36
				07/23/12	- -	106.96	118.04	0.00	106.96	3723.54	-0.31
				02/18/13	- -	106.77	118.35	0.00	106.77	3723.73	0.19
				08/19/13	- -	108.30	118.21	0.00	108.30	3722.20	-1.53
				02/24/14	- -	108.66	118.45	0.00	108.66	3721.84	-0.36
				08/18/14	- -	109.61	118.91	0.00	109.61	3720.89	-0.95
				02/23/15	- -	109.92	118.12	0.00	109.92	3720.58	-0.31
				08/24/15	- -	110.47	118.11	0.00	110.47	3720.03	-0.55
				03/07/16	- -	110.59	118.15	0.00	110.59	3719.91	-0.12
				08/15/16	- -	111.52	118.05	0.00	111.52	3718.98	-0.93
				02/06/17	- -	112.01	118.08	0.00	112.01	3718.49	-0.49
				06/22/17	- -	111.96	117.90	0.00	111.96	3718.54	0.05
				08/17/17	- -	112.55	117.90	0.00	112.55	3717.95	-0.59
				04/05/18	- -	112.85	117.90	0.00	112.85	3717.65	-0.30
				10/01/18	- -	113.89	117.90	0.00	113.89	3716.61	-1.04
				04/04/19	- -	113.84	117.90	0.00	113.84	3716.66	0.05
				10/24/19	- -	115.72	117.90	0.00	115.72	3714.78	-1.88
				06/18/20	- -	116.14	117.90	0.00	116.14	3714.36	-0.42
				10/08/20	- -	116.91	117.90	0.00	116.91	3713.59	-0.77
				04/15/21	- -	117.02	117.90	0.00	117.02	3713.48	-0.11
				06/09/21	WELL PLUGGED AND ABANDONED JUNE 2021						
MW-24R [15]	3830.38	3830.82	3715.11 to 3695.11	09/16/21	- -	117.38	135.77	0.00	117.38	3713.00	NA
				04/14/22	- -	117.33	135.77	0.00	117.33	3713.05	0.05
				10/13/22	- -	118.12	135.77	0.00	118.12	3712.26	-0.79
				03/23/23	- -	118.79	135.77	0.00	118.79	3711.59	-0.67
				10/05/23	- -	119.72	135.77	0.00	119.72	3710.66	-0.93
				04/04/24	- -	120.01	135.77	0.00	120.01	3710.37	-0.29
				10/03/24	- -	121.54	135.77	0.00	121.54	3708.84	-1.53

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-25 [7,8,15]	3830.77	3831.00	3729.00 to 3709.00	08/11/10	- -	106.46	121.66	0.00	106.46	3724.31	NA
				02/23/11	- -	105.72	121.60	0.00	105.72	3725.05	0.74
				07/12/11	- -	107.24	121.49	0.00	107.24	3723.53	-1.52
				02/01/12	- -	108.53	121.42	0.00	108.53	3722.24	-1.29
				07/23/12	- -	109.13	121.47	0.00	109.13	3721.64	-0.60
				02/18/13	- -	107.65	121.45	0.00	107.65	3723.12	1.48
				08/19/13	- -	110.15	121.49	0.00	110.15	3720.62	-2.50
				02/24/14	- -	110.62	121.60	0.00	110.62	3720.15	-0.47
				08/18/14	- -	112.14	121.46	0.00	112.14	3718.63	-1.52
				02/23/15	- -	112.11	121.71	0.00	112.11	3718.66	0.03
				08/24/15	- -	112.89	121.23	0.00	112.89	3717.88	-0.78
				03/07/16	- -	113.76	121.10	0.00	113.76	3717.01	-0.87
				08/15/16	- -	114.52	121.10	0.00	114.52	3716.25	-0.76
				02/06/17	- -	114.68	121.03	0.00	114.68	3716.09	-0.16
				06/22/17	- -	114.64	120.99	0.00	114.64	3716.13	0.04
				08/16/17	- -	114.91	120.99	0.00	114.91	3715.86	-0.27
				04/05/18	- -	115.38	120.99	0.00	115.38	3715.39	-0.47
				10/01/18	- -	116.42	120.99	0.00	116.42	3714.35	-1.04
				04/04/19	- -	116.12	120.99	0.00	116.12	3714.65	0.30
				10/24/19	- -	117.22	120.99	0.00	117.22	3713.55	-1.10
				06/18/20	- -	118.44	120.99	0.00	118.44	3712.33	-1.22
				10/08/20	- -	119.59	120.99	0.00	119.59	3711.18	-1.15
				04/15/21	- -	119.65	120.99	0.00	119.65	3711.12	-0.06
				06/09/21	WELL PLUGGED AND ABANDONED JUNE 2021						
MW-26 [7,8,14]	3833.18	3833.39	3731.85 to 3711.85	08/11/10	- -	106.22	121.33	0.00	106.22	3726.96	NA
				02/23/11	- -	108.44	121.31	0.00	108.44	3724.74	-2.22
				07/12/11	- -	109.58	121.26	0.00	109.58	3723.60	-1.14
				02/01/12	- -	110.38	121.21	0.00	110.38	3722.80	-0.80
				07/23/12	- -	111.28	121.24	0.00	111.28	3721.90	-0.90
				02/18/13	- -	109.00	121.43	0.00	109.00	3724.18	2.28
				08/19/13	- -	111.46	121.43	0.00	111.46	3721.72	-2.46
				02/24/14	- -	112.28	122.30	0.00	112.28	3720.90	-0.82
				08/18/14	- -	113.98	121.31	0.00	113.98	3719.20	-1.70
				02/23/15	- -	114.20	121.20	0.00	114.20	3718.98	-0.22
				08/24/15	- -	114.86	121.15	0.00	114.86	3718.32	-0.66
				03/07/16	- -	115.22	121.12	0.00	115.22	3717.96	-0.36
				08/15/16	- -	115.98	121.18	0.00	115.98	3717.20	-0.76
				02/06/17	- -	116.38	121.07	0.00	116.38	3716.80	-0.40
				06/22/17	- -	116.24	121.21	0.00	116.24	3716.94	0.14
				08/17/17	- -	116.79	121.21	0.00	116.79	3716.39	-0.55
				04/05/18	- -	>118.00	NA	NA	NA	NA	NA
				10/01/18	- -	>118.86	NA	NA	NA	NA	NA
				04/04/19	- -	>117.09	NA	NA	NA	NA	NA
				10/24/19	- -	119.52	121.21	0.00	119.52	3713.66	-2.73
				06/18/20	- -	120.20	121.21	0.00	120.20	3712.98	-0.68
				08/13/20	DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						
MW-26R [14]	3833.65	3833.37	3716.15 to 3696.15	10/08/20	- -	121.48	137.08	0.00	121.48	3712.17	NA
				04/15/21	- -	121.24	137.08	0.00	121.24	3712.41	0.24
				09/16/21	- -	121.93	137.08	0.00	121.93	3711.72	-0.69
				04/14/22	- -	121.90	137.08	0.00	121.90	3711.75	0.03
				10/13/22	- -	122.83	137.08	0.00	122.83	3710.82	-0.93
				03/23/23	- -	123.64	137.08	0.00	123.64	3710.01	-0.81
				10/05/23	- -	124.37	137.08	0.00	124.37	3709.28	-0.73
				04/04/24	- -	124.27	137.08	0.00	124.27	3709.38	0.10
				10/03/24	- -	126.38	137.08	0.00	126.38	3707.27	-2.11

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-27 [7,8]	3837.27	3834.53	3733.20 to 3713.20	08/11/10	- -	109.00	124.07	0.00	109.00	3728.27	NA
				02/23/11	- -	109.58	123.96	0.00	109.58	3727.69	-0.58
				07/12/11	- -	110.59	124.00	0.00	110.59	3726.68	-1.01
				02/01/12	- -	111.37	123.97	0.00	111.37	3725.90	-0.78
				07/23/12	- -	112.32	123.78	0.00	112.32	3724.95	-0.95
				02/18/13	- -	111.19	123.89	0.00	111.19	3726.08	1.13
				08/19/13	- -	113.06	123.60	0.00	113.06	3724.21	-1.87
				02/24/14	- -	113.81	122.60	0.00	113.81	3723.46	-0.75
				08/18/14	- -	114.96	123.68	0.00	114.96	3722.31	-1.15
				02/23/15	- -	115.32	120.95	0.00	115.32	3721.95	-0.36
				08/24/15	- -	115.99	122.37	0.00	115.99	3721.28	-0.67
				03/07/16	- -	116.26	122.87	0.00	116.26	3721.01	-0.27
				08/15/16	- -	116.94	123.78	0.00	116.94	3720.33	-0.68
				02/06/17	- -	117.32	123.25	0.00	117.32	3719.95	-0.38
				06/22/17	- -	117.30	123.56	0.00	117.30	3719.97	0.02
				08/17/17	- -	117.78	123.56	0.00	117.78	3719.49	-0.48
				04/05/18	- -	118.11	123.56	0.00	118.11	3719.16	-0.33
				10/01/18	- -	>119.15	NA	NA	NA	NA	NA
				04/04/19	- -	>119.15	NA	NA	NA	NA	NA
				10/24/19	- -	120.54	123.56	0.00	120.54	3716.73	-2.43
				06/18/20	- -	121.25	123.56	0.00	121.25	3716.02	-0.71
				10/08/20	- -	122.21	123.56	0.00	122.21	3715.06	-0.96
				04/15/21	- -	122.14	123.56	0.00	122.14	3715.13	0.07
				09/16/21	- -	122.72	123.56	0.00	122.72	3714.55	-0.58
				04/14/22	- -	122.53	123.56	0.00	122.53	3714.74	0.19
				10/13/22	WELL DRY						
				03/23/23	INACCESSIBLE[16]						
				10/05/23	WELL DRY						
				04/04/24	REMOVED FROM MONITORING PROGRAM[17]						
				10/17/24	DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						
MW-28 [7,8]	3833.44	3833.73	3735.02 to 3715.02	08/11/10	- -	103.72	118.42	0.00	103.72	3729.72	NA
				02/23/11	- -	104.03	118.42	0.00	104.03	3729.41	-0.31
				07/12/11	- -	105.07	118.35	0.00	105.07	3728.37	-1.04
				01/30/12	- -	105.84	118.38	0.00	105.84	3727.60	-0.77
				07/23/12	- -	106.65	118.31	0.00	106.65	3726.79	-0.81
				02/18/13	- -	106.17	118.47	0.00	106.17	3727.27	0.48
				08/19/13	- -	107.53	118.50	0.00	107.53	3725.91	-1.36
				02/24/14	- -	108.39	118.70	0.00	108.39	3725.05	-0.86
				08/18/14	- -	109.29	118.30	0.00	109.29	3724.15	-0.90
				02/23/15	- -	109.60	118.47	0.00	109.60	3723.84	-0.31
				08/24/15	- -	110.16	118.44	0.00	110.16	3723.28	-0.56
				03/07/16	- -	110.25	118.40	0.00	110.25	3723.19	-0.09
				08/15/16	- -	111.03	118.31	0.00	111.03	3722.41	-0.78
				02/06/17	- -	111.33	118.20	0.00	111.33	3722.11	-0.30
				06/22/17	- -	111.49	118.26	0.00	111.49	3721.95	-0.16
				08/17/17	- -	112.14	118.26	0.00	112.14	3721.30	-0.65
				04/05/18	- -	112.17	118.26	0.00	112.17	3721.27	-0.03
				10/01/18	- -	113.16	118.26	0.00	113.16	3720.28	-0.99
				04/04/19	- -	113.32	118.26	0.00	113.32	3720.12	-0.16
				10/24/19	- -	115.05	118.26	0.00	115.05	3718.39	-1.73
				06/18/20	- -	115.64	118.26	0.00	115.64	3717.80	-0.59
				10/08/20	- -	116.26	118.26	0.00	116.26	3717.18	-0.62
				04/15/21	- -	116.41	118.26	0.00	116.41	3717.03	-0.15
				09/16/21	- -	116.78	118.26	0.00	116.78	3716.66	-0.37
				04/14/22	- -	116.60	118.26	0.00	116.60	3716.84	0.18
				10/13/22	WELL DRY						
				03/23/23	WELL DRY						
				10/05/23	WELL DRY						
				04/04/24	WELL DRY						
				10/03/24	WELL DRY						
				10/21/24	DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-29 [7,8]	3835.55	3836.02	3734.52 to 3714.52	08/11/10	- -	105.80	120.42	0.00	105.80	3729.75	NA
				02/23/11	- -	105.97	120.35	0.00	105.97	3729.58	-0.17
				07/12/11	- -	107.08	120.33	0.00	107.08	3728.47	-1.11
				01/30/12	- -	107.69	120.33	0.00	107.69	3727.86	-0.61
				07/23/12	- -	108.74	120.27	0.00	108.74	3726.81	-1.05
				02/18/13	- -	108.12	120.47	0.00	108.12	3727.43	0.62
				08/19/13	- -	109.49	120.68	0.00	109.49	3726.06	-1.37
				02/24/14	- -	110.43	120.70	0.00	110.43	3725.12	-0.94
				08/18/14	- -	111.35	120.30	0.00	111.35	3724.20	-0.92
				02/23/15	- -	111.65	120.30	0.00	111.65	3723.90	-0.30
				08/24/15	- -	112.29	120.35	0.00	112.29	3723.26	-0.64
				03/07/16	- -	112.47	120.48	0.00	112.47	3723.08	-0.18
				08/15/16	- -	113.21	120.30	0.00	113.21	3722.34	-0.74
				02/06/17	- -	113.46	120.19	0.00	113.46	3722.09	-0.25
				06/22/17	- -	113.62	120.30	0.00	113.62	3721.93	-0.16
				08/17/17	- -	114.05	120.30	0.00	114.05	3721.50	-0.43
				04/05/18	- -	114.39	120.30	0.00	114.39	3721.16	-0.34
				10/01/18	- -	115.35	120.30	0.00	115.35	3720.20	-0.96
				04/04/19	- -	115.55	120.30	0.00	115.55	3720.00	-0.20
				10/24/19	- -	117.03	120.30	0.00	117.03	3718.52	-1.48
				06/18/20	- -	117.80	120.30	0.00	117.80	3717.75	-0.77
				10/08/20	- -	118.70	120.30	0.00	118.70	3716.85	-0.90
				04/15/21	- -	118.55	120.30	0.00	118.55	3717.00	0.15
				09/16/21	- -	118.99	120.30	0.00	118.99	3716.56	-0.44
				04/14/22	- -	118.72	120.30	0.00	118.72	3716.83	0.27
				10/13/22	WELL DRY						
				03/23/23	WELL DRY						
				10/05/23	WELL DRY						
				04/04/24	WELL DRY						
				10/03/24	WELL DRY						
				10/16/24	DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						
MW-30 [9]	3839.25	3836.02	3732.28 to 3712.28	08/19/13	- -	110.94	126.97	0.00	110.94	3728.31	NA
				02/24/14	- -	112.14	126.60	0.00	112.14	3727.11	-1.20
				08/18/14	- -	112.79	126.36	0.00	112.79	3726.46	-0.65
				02/23/15	- -	113.18	126.68	0.00	113.18	3726.07	-0.39
				08/24/15	- -	113.75	125.03	0.00	113.75	3725.50	-0.57
				03/07/16	- -	113.90	124.75	0.00	113.90	3725.35	-0.15
				08/15/16	- -	114.65	124.40	0.00	114.65	3724.60	-0.75
				02/06/17	- -	114.91	123.95	0.00	114.91	3724.34	-0.26
				06/22/17	- -	115.12	123.64	0.00	115.12	3724.13	-0.21
				08/16/17	- -	115.37	123.64	0.00	115.37	3723.88	-0.25
				04/05/18	- -	115.94	123.64	0.00	115.94	3723.31	-0.57
				10/01/18	- -	116.93	123.64	0.00	116.93	3722.32	-0.99
				04/04/19	- -	117.36	123.64	0.00	117.36	3721.89	-0.43
				10/24/19	- -	118.81	123.64	0.00	118.81	3720.44	-1.45
				06/18/20	- -	119.59	123.64	0.00	119.59	3719.66	-0.78
				10/08/20	- -	120.45	123.64	0.00	120.45	3718.80	-0.86
				04/15/21	- -	120.39	123.64	0.00	120.39	3718.86	0.06
				09/16/21	- -	120.78	123.64	0.00	120.78	3718.47	-0.39
				04/14/22	- -	120.70	123.64	0.00	120.70	3718.55	0.08
				10/13/22	- -	122.04	123.64	0.00	122.04	3717.21	-1.34
				03/23/23	- -	121.99	123.64	0.00	121.99	3717.26	0.05
				10/05/23	WELL DRY						
				04/04/24	WELL DRY						
				10/03/24	WELL DRY						

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HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
MW-31 [10,13]	3819.17	3818.90	3718.90 to 3698.90	02/06/17	98.95	105.11	NM	6.16	99.75	3719.42	NA
				06/22/17	- -	99.84	NM	0.00	99.84	3719.33	-0.09
				08/17/17	100.24	101.22	NM	0.98	100.37	3718.80	-0.53
				04/05/18	100.05	105.55	NM	5.50	100.77	3718.40	-0.40
				10/01/18	101.07	106.82	NM	5.75	101.82	3717.35	-1.05
	3820.17			04/01/19	102.33	107.98	NM	5.65	103.06	3717.11	-0.24
				10/24/19	104.32	104.97	NM	0.65	104.40	3715.77	-1.34
				06/18/20	104.41	107.28	NM	2.87	104.78	3715.39	-0.38
				10/08/20	105.09	108.59	NM	3.50	105.55	3714.62	-0.77
				04/15/21	105.34	109.53	NM	4.19	105.89	3714.29	-0.33
				09/16/21	105.73	111.52	NM	5.79	106.48	3713.69	-0.60
				04/14/22	105.96	111.72	NM	5.76	106.71	3713.46	-0.23
				10/13/22	106.41	112.32	NM	5.91	107.18	3712.99	-0.47
				03/23/23	107.50	114.05	NM	6.55	108.35	3711.82	-1.17
				10/05/23	108.20	114.79	NM	6.59	109.06	3711.11	-0.71
				04/04/24	109.68	110.10	NM	0.42	109.74	3710.44	-0.67
				10/03/24	110.52	112.78	NM	2.26	110.81	3709.36	-1.08
MW-32 [11]	3817.69	3818.07	3721.96 to 3701.96	06/22/17	- -	98.62	115.73	0.00	98.62	3719.07	NA
				08/17/17	- -	98.91	115.73	0.00	98.91	3718.78	-0.29
				04/05/18	- -	99.34	115.73	0.00	99.34	3718.35	-0.43
				10/01/18	- -	100.44	115.73	0.00	100.44	3717.25	-1.10
				04/04/19	- -	100.74	115.73	0.00	100.74	3716.95	-0.30
				10/24/19	- -	101.92	115.73	0.00	101.92	3715.77	-1.18
				06/18/20	- -	102.40	115.73	0.00	102.40	3715.29	-0.48
				10/08/20	- -	103.08	115.73	0.00	103.08	3714.61	-0.68
				04/15/21	- -	103.51	115.73	0.00	103.51	3714.18	-0.43
				09/16/21	- -	104.18	115.73	0.00	104.18	3713.51	-0.67
				04/14/22	- -	104.44	115.73	0.00	104.44	3713.25	-0.26
				10/13/22	- -	105.22	115.73	0.00	105.22	3712.47	-0.78
				03/23/23	- -	106.08	115.73	0.00	106.08	3711.61	-0.86
				10/05/23	- -	106.82	115.73	0.00	106.82	3710.87	-0.74
				04/04/24	- -	107.34	115.73	0.00	107.34	3710.35	-0.52
				10/03/24	- -	108.36	115.73	0.00	108.36	3709.33	-1.02
MW-33 [11]	3819.68	3817.09	3719.78 to 3699.78	06/22/17	- -	100.55	119.90	0.00	100.55	3719.13	NA
				08/17/17	- -	100.99	119.90	0.00	100.99	3718.69	-0.44
				04/05/18	- -	101.26	119.90	0.00	101.26	3718.42	-0.27
				10/01/18	- -	102.37	119.90	0.00	102.37	3717.31	-1.11
				04/04/19	- -	102.77	119.90	0.00	102.77	3716.91	-0.40
				10/24/19	- -	103.83	119.90	0.00	103.83	3715.85	-1.06
				06/18/20	- -	104.29	119.90	0.00	104.29	3715.39	-0.46
				10/08/20	- -	104.96	119.90	0.00	104.96	3714.72	-0.67
				04/15/21	- -	105.44	119.90	0.00	105.44	3714.24	-0.48
				09/16/21	- -	106.11	119.90	0.00	106.11	3713.57	-0.67
				04/14/22	- -	106.42	119.90	0.00	106.42	3713.26	-0.31
				10/13/22	- -	107.06	119.90	0.00	107.06	3712.62	-0.64
				03/23/23	- -	107.99	119.90	0.00	107.99	3711.69	-0.93
				10/05/23	- -	108.72	119.90	0.00	108.72	3710.96	-0.73
				04/04/24	- -	109.24	119.90	0.00	109.24	3710.44	-0.52
				10/03/24	- -	110.25	119.90	0.00	110.25	3709.43	-1.01

Table 1. Water Elevation Measurements

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Top of Casing Elevation (feet)	Ground Level Elevation (feet)	Well Screen Interval (feet)	Date	Depth to Product (feet, btoc)	Depth to Water (feet, btoc)	Total Depth (feet, btoc)	Product Thickness (feet)	Corrected Depth to Water[1] (feet)	Corrected Water Level Elev.[1] (feet)	Water Elevation Change
RW-1	3838.48	3838.19	3738.19 to 3708.19	04/30/09	- -	106.45	136.09	0.00	106.45	3732.03	NA
				06/10/09	- -	106.59	NM	0.00	106.59	3731.89	-0.14
				06/19/09	- -	106.61	129.62	0.00	106.61	3731.87	-0.02
				07/02/09	- -	106.82	129.25	0.00	106.82	3731.66	-0.21
				07/24/09	- -	106.92	129.31	0.00	106.92	3731.56	-0.10
				09/24/09	- -	107.42	129.73	0.00	107.42	3731.06	-0.50
				10/27/09	- -	107.53	129.25	0.00	107.53	3730.95	-0.11
				01/13/10	- -	107.67	129.29	0.00	107.67	3730.81	-0.14
				02/02/10	- -	107.69	NM	0.00	107.69	3730.79	-0.02
				04/01/10	- -	107.60	NM	0.00	107.60	3730.88	0.09
				08/11/10	- -	108.18	129.29	0.00	108.18	3730.30	-0.58
				02/23/11	- -	108.22	129.31	0.00	108.22	3730.26	-0.04
				07/12/11	- -	109.09	129.27	0.00	109.09	3729.39	-0.87
				02/02/12	- -	109.81	129.34	0.00	109.81	3728.67	-0.72
				07/23/12	- -	110.98	129.07	0.00	110.98	3727.50	-1.17
				02/18/13	- -	110.61	135.79	0.00	110.61	3727.87	0.37
				08/19/13	- -	111.67	129.64	0.00	111.67	3726.81	-1.06
				02/24/14	- -	112.59	129.60	0.00	112.59	3725.89	-0.92
				08/18/14	- -	113.50	129.28	0.00	113.50	3724.98	-0.91
				02/23/15	- -	113.95	129.26	0.00	113.95	3724.53	-0.45
				08/24/15	- -	114.56	129.25	0.00	114.56	3723.92	-0.61
				03/07/16	- -	114.92	129.25	0.00	114.92	3723.56	-0.36
				08/15/16	- -	115.52	129.25	0.00	115.52	3722.96	-0.60
				02/06/17	- -	115.92	129.25	0.00	115.92	3722.56	-0.40
				06/22/17	- -	116.00	129.42	0.00	116.00	3722.48	-0.08
				08/17/17	- -	116.44	129.42	0.00	116.44	3722.04	-0.44
				04/05/18	- -	116.82	129.42	0.00	116.82	3721.66	-0.38
				10/01/18	- -	117.77	129.42	0.00	117.77	3720.71	-0.95
				04/04/19	- -	118.23	129.42	0.00	118.23	3720.25	-0.46
				10/24/19	- -	119.43	129.42	0.00	119.43	3719.05	-1.20
				06/18/20	- -	120.13	129.42	0.00	120.13	3718.35	-0.70
				10/08/20	- -	121.01	129.42	0.00	121.01	3717.47	-0.88
				04/15/21	- -	121.01	129.42	0.00	121.01	3717.47	0.00
				09/16/21	- -	121.57	129.42	0.00	121.57	3716.91	-0.56
				04/14/22	- -	121.35	129.42	0.00	121.35	3717.13	0.22
				10/13/22	- -	122.60	129.42	0.00	122.60	3715.88	-1.25
				03/23/23	- -	122.83	129.42	0.00	122.83	3715.65	-0.23
				10/05/23	- -	123.97	129.42	0.00	123.97	3714.51	-1.14
				04/04/24	- -	124.39	129.42	0.00	124.39	3714.09	-0.42
				10/03/24	- -	126.59	129.42	0.00	126.59	3711.89	-2.20

Notes:

1. Depth to water corrected for presence of product using a specific gravity of 0.87.
2. Monitoring wells MW-1 through MW-7 installed September 1995; plugged and redrilled April 2009.
3. Monitoring wells MW-8 through MW-10 installed March and April 1996; plugged and redrilled April 2009.
4. Monitoring wells MW-11 and MW-12 installed April and May 2002.
5. Monitoring wells MW-13 and MW-14 installed January 2004.
6. Elevation survey of new and existing wells August 7, 2009. Earlier water level information corrected to current survey.
7. Monitoring wells MW-15 through MW-29 installed May-June 2010.
8. Elevation survey of wells MW-15 through MW-29 July 13, 2010.
9. Monitoring wells MW-12R, MW-17R, and MW-30 installed and elevations surveyed June 2013; MW-12 and MW-17 plugged and abandoned June 2013.
10. Monitoring wells MW-11R and MW-31 installed December 2016 and elevations surveyed February 2017; MW-11 plugged and abaondoned June 2013
11. Monitoring wells MW-32 and MW-33 installed and elevations surveyed June 2017.
12. Monitoring wells MW-13R and MW-14R installed and elevations surveyed September 2018; MW-13 and MW-14 plugged and abandoned September 2018.
13. Top of casing elevation was calculated by adding 1 foot to the original surveyed top of casing elevation because a 1 foot additional piece of PVC was added due to the skimmer system.
14. Monitoring wells MW-12R2, MW-16R, MW-23R, and MW-26R installed and elevations surveyed August 2020; MW-12R, MW-16, MW-23, and MW-26 plugged and abandoned August 2020.
15. Monitoring well MW-20R installed in June 2021 and MW-15R, MW-18R, MW-19R, and MW-24R installed in September 2021 (all surveyed in September 2021); MW-15, MW-18, MW-19, MW-20, MW-24, and MW-25 plugged and abandoned June 2021.
16. Well inaccessible due to refinery operations.
17. Monitoring wells MW-21 and MW-27 were removed from the monitoring program per the 2024 Revised Facility-Wide Groundwater Monitoring Work Plan (2024 FWGMWP) approved by OCD on March 12, 2024.

btoc = below top of casing
-- = Not Detected
NM = Not Measured
NA = Not Applicable
>Value = Water level could not be measured due to interference from dedicated pump.

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-1	06/19/2009		<0.0050	0.012	<0.0050	0.031	<0.0050	--	--	--	--	--	--	--	--
	01/19/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	--	<0.00020	<0.00020	<0.00020	--	--
	08/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	03/01/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/20/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/02/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/27/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/09/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	02/07/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000293 J	--	--	--	--	--	--	--
	06/18/2020	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000296 J	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000275 J	--	--	--	--	--	--	--
	04/15/2021		<0.0000941	0.000266 J	<0.000278	<0.000174	<0.00100	0.000439 J	--	--	--	--	--	--	--
	09/16/2021		0.000102 JB	<0.000137	<0.000278	<0.000174	<0.00100	0.000560 J	--	--	--	--	--	--	--
	04/14/2022		<0.0000941	0.000241 J	<0.000278	<0.000174	<0.00100	0.000522 J	--	--	--	--	--	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000455 J	--	--	--	--	--	--	--
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000620 J	--	--	--	--	--	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00162 J	--	--	--	--	--	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000950 J	--	--	--	--	--	--	--
MW-2	06/22/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/19/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/16/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	03/03/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/14/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/24/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/19/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	0.00022	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	0.00084 J	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/28/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.000696 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/07/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.000942 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/18/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00293 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/07/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00719	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00812	<0.000372	<0.000372	<0.000332	<0.000311	0.00403 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00385 J	0.00228	0.00228	<0.000332	<0.000311	0.00721 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00214 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000912 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00260 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00260 J	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000728 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000475 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000370 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000448 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000706 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000630 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000218 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000171 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000178 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433 [R]	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000191 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
MW-3	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/14/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/14/2010	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/19/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/24/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/15/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/26/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	02/26/2015	FD	<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/26/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/08/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/05/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	06/18/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/15/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	03/23/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-4	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/13/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/19/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/15/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00044	0.00044	--	<0.00020	<0.00020	--	--
	01/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/24/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.005	<0.0050	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	--	--
	02/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/28/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/15/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00267 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00302 JB	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000574 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000493 J	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00140 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00664	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00906	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0104	<0.000167	<0.000167	<0.0000829	<0.000123	<0.00455	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0109	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
MW-5	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/20/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/19/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/24/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000382 J	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.366
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00154 JB	0.0899 JB	0.0397 J
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00240 JB	<0.0314	<0.0247
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000880 J	0.0494 JB	0.0620 J
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0586 J
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0918 J
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000167	<0.000167	<0.0000829	<0.000123	<0.00455	<0.0314	0.0420 J
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
MW-6	06/18/2009		<0.0050	<0.0050	<0.0050	<0.015	0.0075	--	--	--	--	--	--	--	--
	06/18/2009	FD	<0.0050	<0.0050	<0.0050	<0.015	0.0074	--	--	--	--	--	--	--	--
	02/02/2010		<0.0050	0.013	<0.0050	<0.015	0.0099	--	--	--	--	--	--	--	--
	08/19/2010		<0.0050	0.015	<0.0050	<0.015	<0.0050	--	0.0034	0.0017	--	0.0017	<0.0010	--	--
	03/01/2011		<0.0050	0.018	<0.0050	<0.015	0.013	--	0.0094	0.0062	<0.00020	0.0032	0.0255	--	--
	07/20/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.0008	0.0008	--	<0.00020	<0.00020	--	--
	02/02/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/24/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00116	0.00052	0.00064	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00292	0.00092	0.0020	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/10/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/07/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00123 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000859 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	06/18/2020	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000149 J	--	--	--	--	--	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000274 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000268 J	--	--	--	--	--	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000248 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000331 J	--	--	--	--	--	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000265 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000257 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	06/19/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/02/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	03/01/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/20/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/02/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/27/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000507 J	--	--

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-8	06/18/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/25/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/19/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/01/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.0020	<0.0020	--	<0.0020	<0.0020	--	--
	07/27/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/26/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000990 J	--	--
	03/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/18/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	02/08/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000307 J	--	--	--	--	--	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000573 J	--	--	--	--	--	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000183 J	--	--	--	--	--	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000352 J	--	--	--	--	--	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	03/23/2023		--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--	--	--	--	--	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/14/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/19/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	03/01/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/15/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/26/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/13/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/19/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	--	--	<0.00020	<0.00020	--	--
	03/03/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	0.00028	0.00028	<0.00020	<0.00020	<0.00020	--	--
	07/15/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	0.00032	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/26/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/26/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	06/18/2009		0.10	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/18/2010		0.20 E	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/18/2010		0.078	0.021	<0.0050	<0.015	<0.0050	--	0.00036	0.00036	--	--	0.00122	--	--
	02/25/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/19/2011		1.2	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00036	0.00036	--	<0.00020	0.00089	--	--
	02/01/2012		7.8	0.051	<0.0050	0.20	0.096	<0.0050	0.0435	0.039	--	0.0045	0.0035	--	--
	07/27/2012		0.049	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00022	0.00022	<0.00020	<0.00020	0.00023	--	--
	02/27/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2013	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/28/2014		0.96	0.25	<0.0050	0.20	0.0064	<0.0050	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	08/20/2014		0.11	0.011	<0.0050	0.030	<0.0050	<0.0050	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	02/27/2015		0.0026	0.00099 J	<0.00078	0.0036	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	0.0010 J	--	--
	08/28/2015		0.00856	0.00194	0.00283 J	0.0158	<0.00100	0.000420 J	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	08/28/2015	FD	0.00922	0.00216	0.00305 J	0.0180	<0.00100	0.000467 J	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	03/09/2016		0.000627 J	0.000778 J	<0.000780	<0.00106	<0.00100	<0.000324	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	03/09/2016	FD	0.000772 J	0.000908 J	<0.000780	<0.00106	<0.00100	<0.000324	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	08/15/2016		DRY WELL - PLUGGED AND ABANDONED DECEMBER 2016												

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-11R	02/08/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/08/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000392 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00167 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000350 J	<0.000413	<0.000413	<0.000368	<0.000345	0.000744 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000971 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00284 J	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000614 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000390 J	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000844 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000927 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		0.000660 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000900 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021		0.000157 JB	<0.000137	<0.000278	<0.000174	<0.00100	0.000916 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00174 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00272 J	0.0000799 J	<0.000159	0.0000799 J	<0.000117	<0.00433	--	--
	03/23/2023		--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--	--
	10/05/2023		0.000170 J	<0.000137	<0.000278	<0.000174	<0.00100	0.00346 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		0.0840	0.00651	0.00500	0.0226	<0.00100	0.00264 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/03/2024		0.000108 J	<0.000137	<0.000278	<0.000174	<0.00100	0.00219 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
MW-12	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/20/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/19/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	--		DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013												
MW-12R	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000362 J	--	--
	03/09/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/18/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000439	<0.000439	<0.000392	<0.000367	<0.000394	--	--
	02/08/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00273 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00237 JB	--	--
	04/05/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00230 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00262 JB	--	--
	10/01/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00441 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00257 J	--	--
	04/04/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000708 J	--	--
	10/24/2019		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	06/18/2020		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020												
MW-12R2	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	0.00662 J	--	--
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000167	<0.000167	<0.0000829	<0.000123	<0.00455	--	--
	10/03/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000164	<0.000164	<0.0000814	<0.000121	<0.00446	--	--
MW-13	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/18/2010		0.016	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/25/2011		0.0057	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	0.00091	--	--
	07/19/2011		0.0063	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/01/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/26/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/27/2015		0.00034 J	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/26/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000379 J	--	--
	03/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/08/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/17/2017		0.000397 J	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00270 JB	--	--
	04/05/2018		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	09/26/2018		DRY WELL - PLUGGED AND ABANDONED SEPTEMBER 2018												
MW-13R	10/01/2018		<0.000331	<0.000384	0.000506 J	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00134 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00164 J	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	06/18/2020	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000113 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/08/2020	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000195 J	--	--	--	--	--	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000239 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000114 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000225 J	--	--	--	--	--	--	--
	10/13/2022		0.0000984 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	03/23/2023		--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--	--	--	--	--	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000233 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000674 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-14	06/16/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/20/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/18/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	--	--	--	--	--	--	--
	02/22/2013		--	--	--	--	--	--	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	02/28/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	08/20/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	02/27/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000530 J	--	--
	08/19/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000413	<0.000413	<0.000368	<0.000345	0.000642 J	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00318 JB	--	--
	09/27/2018		DRY WELL - PLUGGED AND ABANDONED SEPTEMBER 2018												
MW-14R	10/01/2018		<0.000331	<0.000384	0.00186	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00278 JB	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
MW-15	08/20/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/24/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/14/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.017	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.0095	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/24/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.017	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/19/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.030	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.0060	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.0056	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/24/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.013	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/24/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.011	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	08/21/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	0.011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	0.0081	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00447 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000997 J	--	--
	08/27/2015	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00574	<0.000372	<0.000372	<0.000332	<0.000311	0.000595 J	--	--
	03/07/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00570	<0.000372	<0.000372	<0.000332	<0.000311	0.000534 J	--	--
	08/15/2016	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00539	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/06/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00474 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00209 JB	--	--
	04/05/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00217 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000915 JB	--	--
	04/04/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00226 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000561 J	--	--
	06/18/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000889 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021												
MW-15R	09/16/2021		0.000105 JB	<0.000137	<0.000278	<0.000174	<0.00100	0.0120	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0119	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	03/23/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0173	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0204	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	08/20/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/24/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/15/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00030	0.00030	--	<0.00020	<0.00020	--	--
	07/15/2011	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/24/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000397 J	--	--
	08/15/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00429 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000817 JB	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000913 J	--	--
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020												
MW-16R	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000201 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00181 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00144 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
MW-17	08/20/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/24/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/18/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	--		DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013												

Table 2. Organic Constituent Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-17R	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/26/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000465 J	--	--
	03/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/09/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00208 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	0.00133	0.00133	<0.000332	<0.000311	0.00488 JB	--	--
	04/05/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00290 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00259 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00242 J	--	--
	04/04/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000493 J	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000373 J	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/05/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
MW-18	08/23/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/24/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/18/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00021	0.00021	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	0.00056	--	--
	08/20/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/26/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000507 J	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000439	<0.000439	<0.000392	<0.000367	0.000507 J	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00205 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00283 JB	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000389 J	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021												
MW-18R	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	0.000200 J	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000167	<0.000167	<0.0000829	<0.000123	<0.00455	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
MW-19	08/23/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/24/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/18/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	0.00034	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	08/19/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/26/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	02/26/2015	FD	<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/26/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000610 J	--	--
	03/08/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.00186	<0.00186	<0.00166	<0.00156	0.00818 J	--	--
	02/08/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00310 JB	--	--
	08/16/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00320 JB	--	--
	04/05/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00216 JB	--	--
	04/04/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	06/18/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	04/15/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021												
MW-19R	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	03/23/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	0.000335 J	0.000335 J	<0.0000829	<0.000123	<0.00455	--	--
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-20	08/23/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/25/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/18/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/25/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000508 J	--	--
	08/16/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00262 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00309 JB	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00161 J	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021												

Table 2. Organic Constituent Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-20R	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000167	<0.000167	<0.0000829	<0.000123	<0.00455	--	--
MW-21	08/23/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/28/2011	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/19/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/26/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00131	0.0010	<0.00020	0.00031	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000497 J	--	--
	08/16/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.624
	08/17/2017		--	--	--	--	--	--	<0.000372	<0.000372	<0.000332	<0.000311	0.00375 JB	0.0889 JB	0.124
	10/01/2018		--	--	--	--	--	--	<0.000372	<0.000372	<0.000332	<0.000311	0.000383 JB	<0.0314	0.120
	10/24/2019		--	--	--	--	--	--	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	0.0524 JB	0.196
	10/08/2020		--	--	--	--	--	--	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.175
	09/16/2021		--	--	--	--	--	--	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.312
	10/13/2022		--	--	--	--	--	--	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.136
	10/05/2023		--	--	--	--	--	--	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	04/04/2024		REMOVED FROM MONITORING PROGRAM												
	10/21/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024												
MW-22	08/23/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/19/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/31/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/26/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/24/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.819
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00363 JB	0.0786 JB	0.113
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00119 JB	<0.0314	0.104 J
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000635 J	0.0606 JB	0.0674 J
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.122 J
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.179 J
	10/13/2022		<0.0000941	0.000152 J	<0.000278	0.000227 J	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.450
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
MW-23	08/23/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/19/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/01/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/26/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/25/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020												
MW-23R	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24	08/24/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/14/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/01/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/30/2012	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000405 J	--	--
	08/16/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00301 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00178 JB	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021												
MW-24R	09/16/2021		0.000725 JB	<0.000137	0.000828 J	0.000194 J	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-25	08/23/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/18/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/01/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/26/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	08/19/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	02/25/2015	FD	<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000728 J	--	--
	08/25/2015	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000581 J	--	--
	03/09/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2016	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/07/2017		0.000424 J	<0.000384	<0.000412	0.00207 J	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00347 JB	--	--
	08/16/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00233 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	0.00159	0.00159	<0.000349	<0.000326	0.000731 JB	--	--
	04/05/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00118 JB	--	--
	10/01/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00274 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00201 J	--	--
	04/04/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000526 J	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00240 J	--	--
	10/24/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000637 J	--	--
	06/18/2020		0.000201 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/08/2020		0.000137 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		0.000809 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021												
MW-26	08/24/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/14/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/01/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/26/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	0.00061	--	--
	02/26/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/25/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/17/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020												
MW-26R	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
MW-27	08/18/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/25/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	0.00099	--	--
	07/20/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	0.00034	--	--
	02/01/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/26/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/21/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/27/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/26/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/18/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/08/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00241 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000380	<0.000380	<0.000339	<0.000317	0.00451 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000917 J	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	--	--	--	--	--	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000199 J	--	--	--	--	--	--	--
	10/13/2022		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	03/23/2023		--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--	--	--	--	--	--	--
	10/05/2023		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--	--
	04/04/2024		REMOVED FROM MONITORING PROGRAM												
	10/17/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024												

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-28	08/24/2010		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/28/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/23/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/14/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/24/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/19/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	0.00086	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	0.00022	--	--
	02/24/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/19/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/23/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	0.00033 J	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000774 J	--	--
	03/07/2016		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000391	<0.000391	<0.000349	<0.000326	0.000459 J	--	--
	02/06/2017		--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00236 JB	--	--
	04/05/2018		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00119 JB	--	--
	04/04/2019		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	06/18/2020		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	03/23/2023		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/21/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024												
MW-29	08/24/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/24/2010	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	02/28/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/14/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	01/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	0.00050	0.00050	--	<0.00020	<0.00020	--	--
	07/24/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/26/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	0.00039 J	--	--
	08/27/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.000329 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00224 J	--	--	--	--	--	--	--
	08/17/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00197 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/09/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00246 J	--	--	--	--	--	--	--
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00175 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00419 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00142 J	--	--	--	--	--	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000903 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00164 JB	--	--
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00133 J	--	--	--	--	--	--	--
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000578 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	10/24/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000686 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000719 J	--	--	--	--	--	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00146 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00156 J	--	--	--	--	--	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00276 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000558 J	--	--	--	--	--	--	--
	10/13/2022		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	03/23/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--	--	--	--	--	--
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--
	10/16/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024												
MW-30	06/21/2013		<0.0050	<0.0050	<0.0050	<0.015	--	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/20/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/27/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	02/25/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	0.00072 J	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	08/28/2015		<0.000331	<0.000384	<0.000780	0.00142 J	<0.00100	0.000887 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.000964 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/08/2016	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.000911 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00107 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2016	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00111 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	02/09/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00190 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/16/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00376 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00799 JB	0.0792 J	0.0551 J
	08/16/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00336 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00141 JB	--	--
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00468 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00900 JB	--	--
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00549	<0.000372	<0.000372	<0.000332	<0.000311	0.00181 JB	--	--
	10/01/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00846	<0.000372	<0.000372	<0.000332	<0.000311	0.00484 JB	<0.0314	0.0391 J
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.0148	<0.000372	<0.000372	<0.000332	<0.000311	0.00110 J	--	<0.0247
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00916	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	10/24/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.0110	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0139	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0159	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0266	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0282	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0311	<0.000167	<0.000167	<0.0000829	<0.000123	<0.00455	--	--
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0288	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	--	--
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.0317	0.000288 J	0.000288 J	<0.0000790	<0.000117	<0.00433	--	--
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--
	10/03/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--	--

Table 2. Organic Constituent Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
MW-32	06/15/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.507
	06/15/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.427
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00126 JB	0.0740 JB	0.167
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000662 JB	<0.0314	0.204
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00459 JB	<0.0314	0.360
	10/01/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00380 JB	<0.0314	0.350
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000633 J	0.0332 JB	0.209
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00114 J	0.0510 JB	0.272
	10/24/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000413	<0.000413	<0.000369	<0.000345	<0.000371	0.0316 JB	0.228
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.146
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0320 JB	0.507
	10/08/2020	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.438
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.366
	04/15/2021	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.380
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.178
	09/16/2021	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.182 J
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.385
	04/14/2022	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.364
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.382
	10/13/2022	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.353
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.546
	03/23/2023	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.405
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.334
	10/05/2023	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.316
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.224
	04/04/2024	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.239
	10/03/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0855 JB	0.851
	10/03/2024	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0807 JB	0.881
MW-33	06/15/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	0.105 B	3.14
	08/17/2017		0.000884 J	0.000627 J	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00306 JB	0.335 B	0.250
	04/05/2018		0.000363 J	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	0.00107	0.00107	<0.000332	<0.000311	0.00596 JB	0.205	0.175
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00271 JB	0.215	0.133
	04/04/2019		0.000401 J	<0.000384	<0.000412	<0.00106	<0.00100	0.000545 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00221 J	0.144	0.0707 J
	10/24/2019		0.000352 J	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00315 J	0.244	0.167
	06/18/2020		0.000244 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.229	0.0490 J
	10/08/2020		0.000342 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.107 B	0.0941 J
	10/08/2020	FD	0.000342 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0989 J
	04/15/2021		0.000296 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0501 J	0.161 B
	04/15/2021	FD	0.000282 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0474 J	0.188 B
	09/16/2021		0.000313 JB	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0464 J	0.0765 J
	09/16/2021	FD	0.000284 JB	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0707 J	0.0786 J
	04/14/2022		0.000234 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.188	0.138
	04/14/2022	FD	0.000225 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.142
	10/13/2022		0.000217 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0398 J	0.173
	10/13/2022	FD	0.000216 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.177
	03/23/2023		0.000285 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.198
	03/23/2023	FD	0.000240 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.183
	10/05/2023		0.000281 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0842 J	0.478
	10/05/2023	FD	0.000285 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0509 J	0.483
	04/04/2024		0.000181 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0500 JB	0.0453 J
	04/04/2024	FD	0.000172 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0532 JB	0.0919 J
	10/03/2024		0.000155 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0957 JB	0.124
North Well	06/18/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/14/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/24/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	03/03/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/20/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/02/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/19/2013		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	12/17/2014		<0.0010	<0.0010	<0.0010	<0.0015	<0.0020	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--
	03/09/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	05/19/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00033	<0.00031	<0.00033	--	--
	08/28/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	12/17/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/10/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	05/25/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/18/2016		0.000425 J	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	<0.0247
	12/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0621 J
	02/07/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0531 J
	05/31/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000543 J	0.0448 JB	0.0359 J
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00295 JB	0.0888 JB	0.189
	12/14/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	0.0375 J	0.0391 J
	02/23/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00187 JB	<0.0314	0.0821 JB
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	0.000455 J	0.000455 J	<0.000332	<0.000311	0.00110 JB	<0.0314	0.0385 J
	07/31/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00138 JB	<0.0314	0.0303 J
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00357 JB	<0.0314	0.0354 J
	01/23/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	<0.0247
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00136 J	<0.0314	<0.0247
	07/11/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	<0.0247
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	0.0381 JB	<0.0247
	01/15/2020		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00108 J	0.0611 JB	<0.0247
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	08/19/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0342 JB	0.0415 J
	01/28/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0420 JB	0.0450 JB
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0644 J
	07/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	0.000169 J	0.000169 J	<0.0000790	<0.000117	<0.00433	<0.0314	0.0368 J
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	01/20/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0357 J
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0366 J
	07/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0417 JB
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0610 J
	01/26/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	0.000303 J	0.000303 J	<0.0000790	<0.000117	<0.00433	0.0382 JB	0.0768 JB
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0759 J
	07/27/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0572 J
	01/25/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0688 JB
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	07/18/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0459 JB
	10/03/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000161	<0.000161	<0.0000798	<0.000118	<0.00437	0.0852 JB	0.0252 J

Table 2. Organic Constituent Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
South Well	06/22/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/14/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/24/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	03/03/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/20/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/02/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/19/2013		0.0052	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	02/28/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	08/22/2014	FD	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	12/17/2014		0.0023	<0.0010	<0.0010	<0.0015	<0.0020	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--
	12/17/2014	FD	0.0023	<0.0010	<0.0010	<0.0015	<0.0020	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--
	03/09/2015		0.0014	<0.00038	<0.00078	<0.0011	<0.0010	0.00039 J	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	03/09/2015	FD	0.0016	<0.00038	<0.00078	<0.0011	<0.0010	0.00037 J	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	05/19/2015		0.0010 J	<0.00038	<0.00078	<0.0011	<0.0010	0.00052 J	<0.00037	<0.00037	<0.00033	<0.00031	<0.00033	--	--
	05/19/2015	FD	0.00091 J	<0.00038	<0.00078	<0.0011	<0.0010	0.00054 J	<0.00037	<0.00037	<0.00033	<0.00031	<0.00033	--	--
	08/28/2015		0.00113	<0.000384	<0.000780	<0.00106	<0.00100	0.000518 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/28/2015	FD	0.000921 J	<0.000384	<0.000780	<0.00106	<0.00100	0.000527 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	12/17/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.000815 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	12/17/2015	FD	0.00119	<0.000384	<0.000780	<0.00106	<0.00100	0.000861 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/10/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	05/25/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00114 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	05/25/2016	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00118 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/18/2016		0.000451 J	<0.000384	<0.000780	<0.00106	<0.00100	0.00135 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	0.0343 J	0.0303 J
	08/18/2016	FD	0.000509 J	<0.000384	<0.000780	<0.00106	<0.00100	0.00138 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0482 J
	12/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00228 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0961 J
	12/08/2016	FD	<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	0.00190 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.118
	02/07/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00199 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.101
	02/07/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00190 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.178 B
	05/31/2017		0.000503 J	<0.000384	<0.000412	<0.00106	<0.00100	0.00169 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	0.0600 JB	0.0554 J
	05/31/2017	FD	0.000557 J	<0.000384	<0.000412	<0.00106	<0.00100	0.00168 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00329 J	0.0591 JB	0.0509 J
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00102 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00301 JB	0.0968 JB	0.0568 J
	08/17/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00112 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00550 JB	0.0891 JB	0.0536 J
	12/14/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00105 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0641 J
	12/14/2017	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00105 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00153 J	<0.0314	0.0629 J
	02/23/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00113 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00267 J	<0.0314	0.107 B
	02/23/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00118 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000428 J	<0.0314	0.117 B
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000874 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00579 JB	<0.0314	0.0740 J
	07/31/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00124 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00269 J	<0.0314	0.0969 J
	07/31/2018	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00126 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00207 J	<0.0314	0.0662 J
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000929 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000598 JB	<0.0314	0.0534 J
	01/23/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000966 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	0.0485 J	<0.0247
	01/23/2019	FD	<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00110 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	<0.0247
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000943 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00188 J	<0.0314	0.0593 J
	07/11/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00104 J	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0258 JB
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.000903 J	<0.000372	<0.000372	<0.000332	<0.000311	0.000746 J	0.0381 JB	<0.0247
	01/15/2020		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	0.00111 J	<0.000372	<0.000372	<0.000332	<0.000311	0.00102 J	0.0405 JB	<0.0247
	06/18/2020		0.000210 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000757 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	08/19/2020		0.000168 J	<0.000137	<0.000278	<0.000174	<0.00100	0.00108 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	08/19/2020	FD	0.000187 J	<0.000137	<0.000278	<0.000174	<0.00100	0.00102 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/08/2020		0.000205 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000912 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0461 J
	10/08/2020	FD	0.000224 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000877 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0406 J
	01/28/2021		0.000323 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000936 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0582 JB
	01/28/2021	FD	0.000194 J	<0.000137	<0.000278	<0.000174	<0.00100	0.00127 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0575 JB
	04/15/2021		0.000397 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000898 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0865 J
	04/15/2021	FD	0.000447 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000949 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0812 J
	07/15/2021		0.000491 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000805 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0625 J
	07/15/2021	FD	0.000437 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000883 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0510 J
	09/16/2021		0.000345 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000827 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	09/16/2021	FD	0.000304 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000767 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	01/20/2022		0.000339 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000699 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0514 J
	01/20/2022	FD	0.000325 J	<0.000137	<0.000278	<0.000174	<0.00100	0.000715 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0558 J
	04/14/2022		0.000255 J	<0.000137	<0.000278	<0.000174	<0.00100	0.00106 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0647 J
	04/14/2022	FD	0.000260 J	<0.000137	<0.000278	<0.000174	<0.00100	0.00103 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0803 J
	07/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000939 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433 [R]	<0.0314	0.0675 JB
	07/14/2022	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000816 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0685 JB
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000828 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0932 J
	10/13/2022	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000883 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0754 J
	01/26/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00127 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0717 JB
	01/26/2023	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00134	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0323 JB	0.0606 JB
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00154 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0429 J
	03/23/2023	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00106 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.103
	07/27/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000763 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	07/27/2023	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000619	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433 [R]	<0.0314	<0.0247
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00113 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0524 J
	10/05/2023	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00125 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0533 J
	01/25/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000701 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0720 JB
	01/25/2024	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000658 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0863 J
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00140 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0315 JB	<0.0247
	04/04/2024	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.00173 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	07/18/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000838 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	07/18/2024	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000952 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/03/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000930 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0835 JB	0.0638 J
	10/03/2024	FD	<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	0.000901 J	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0829 JB	0.0539 J

Table 2. Organic Constituent Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	WQCC Volatiles (Method 8260, mg/L)						WQCC Semi-Volatiles (Method 8270, mg/L)					TPH (Method 8015, mg/L)	
			Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Chloroform	Total Naphthalene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Phenols	TPH GRO (Low Fraction)	TPH DRO (High Fraction)
New Mexico WQCC Groundwater Standards			0.005	0.7	1	0.62	0.03	0.1	0.03	N/A	N/A	N/A	0.005	N/A	N/A
East Well	06/18/2009		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	01/14/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	08/25/2010		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	--	--	--	--	--	--	--
	03/03/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	07/20/2011		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	02/02/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	--	<0.00020	<0.00020	--	--
	07/30/2012		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/27/2012		<0.0050	<0.0050	<0.0050	<0.015	--	<0.0050	<0.00020	<0.00020	<0.00020	--	<0.00020	--	--
	09/26/2012		<0.0050	<0.0050	<0.0050	<0.015	--	<0.0050	<0.00020	<0.00020	<0.00020	--	<0.00020	--	--
	10/22/2012		<0.0050	<0.0050	<0.0050	<0.015	--	<0.0050	<0.00020	<0.00020	<0.00020	--	<0.00020	--	--
	12/27/2012		<0.0050	<0.0050	<0.0050	<0.015	--	<0.0050	<0.00020	<0.00020	<0.00020	--	<0.00020	--	--
	02/28/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--
	08/22/2014		<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	--	--
	12/17/2014		<0.0010	<0.0010	<0.0010	<0.0015	<0.0020	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--
	03/09/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00031	<0.00031	<0.00033	--	--
	05/19/2015		<0.00033	<0.00038	<0.00078	<0.0011	<0.0010	<0.00032	<0.00037	<0.00037	<0.00033	<0.00031	<0.00033	--	--
	08/28/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	12/17/2015		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	03/10/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	05/25/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	--	--
	08/18/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0357 J
	12/08/2016		<0.000331	<0.000384	<0.000780	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0673 J
	02/07/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	0.0552 J
	05/31/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000544 J	0.0590 JB	<0.0247
	08/17/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00403 JB	0.0847 JB	0.0335 J
	12/14/2017		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00192 J	0.0394 J	<0.0247
	02/23/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00330 J	<0.0314	0.0849 JB
	04/05/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00418 JB	<0.0314	<0.0282
	07/31/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00193 J	0.0327 JB	<0.0247
	10/01/2018		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00502 JB	<0.0314	<0.0247
	01/23/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00218 J	<0.0314	<0.0247
	04/04/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000431 J	<0.0314	<0.0247
	07/11/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	<0.000334	<0.0314	<0.0247
	10/24/2019		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.000657 J	0.0386 JB	<0.0247
	01/15/2020		<0.000331	<0.000384	<0.000412	<0.00106	<0.00100	<0.000324	<0.000372	<0.000372	<0.000332	<0.000311	0.00417 J	0.0353 JB	<0.0247
	06/18/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	08/19/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/08/2020		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0366 J
	01/28/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0943 JB
	04/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0703 J
	07/15/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	09/16/2021		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	0.000475 J	0.000187 J	0.000117 J	0.000171 J	<0.00433	<0.0314	<0.0247
	11/10/2021		--	--	--	--	--	--	<0.000159	<0.000159	<0.0000790	<0.000117	--	--	--
	11/10/2021	FD	--	--	--	--	--	--	<0.000159	<0.000159	<0.0000790	<0.000117	--	--	--
	01/20/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	04/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0480 J
	07/14/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0267 JB
	10/13/2022		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0496 J
	01/26/2023		0.0000943 J	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0315 B	0.0510 B
	03/23/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0579 J
	07/27/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/05/2023		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0298 J
	01/25/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	0.0373 J
	04/04/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	07/18/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	<0.0314	<0.0247
	10/03/2024		<0.0000941	<0.000137	<0.000278	<0.000174	<0.00100	<0.000111	<0.000159	<0.000159	<0.0000790	<0.000117	<0.00433	0.0821 JB	0.0285 J

Notes:
Shading indicates detected result exceeded the New Mexico Water Quality Control Commission (WQCC) Groundwater Standard
N/A = Not Applicable, no New Mexico WQCC Groundwater Standard established for constituent
mg/L = milligrams per liter
FD = Field Duplicate
< = Not reported above laboratory reporting limit
-- = Not Analyzed
(1)= Not analyzed due to insufficient water volume
(2)= Not analyzed due to refinery operations (inaccessible)
J = analyte was detected below the laboratory reporting limit (June 2009 to December 2014) or the method quantitation limit (February 2015 to April 2021), or reported detection limit (July 2021, to October 2024), reported value is estimated
B = same analyte was detected in the associated laboratory blank or equipment blank; sample concentration is within 5 times the blank concentration
[R] analyte not usable for project objectives according to the United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Organic Superfund Methods* (USEPA, November 2020)
June 2009 to August 2014 analyses completed by ALS Laboratory Group, Houston, Texas
December 2014 analyses completed by Hall Environmental Analysis Laboratory in Albuquerque, New Mexico
February 2015 to present analyses completed by Pace Analytical National Center for Testing & Innovation (formerly ESC Lab Sciences) in Mount Juliet, Tennessee
Analytical data from 2009 to 2011 were provided by a previous consultant and could not be confirmed against the original data packages

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-1	06/19/2009		131	0.827	3.75	- -	- -	123	694
	01/19/2010		266	0.249	5.84	- -	- -	145	1,240
	08/18/2010		126	0.623	2.59	- -	- -	111	694
	03/01/2011		100	0.502	1.84	- -	- -	83.4	580
	07/20/2011		34.7	0.623	1.14	- -	- -	73.9	492
	02/02/2012		29.9	0.773	<1.00	- -	- -	65.4	392
	07/27/2012		27.3	0.944	<2.00	- -	- -	59.5	358
	02/27/2013		30.0	0.872	<2.00	- -	- -	67.2	400
	08/21/2013		33.2	1.03	<1.00	- -	- -	70.5	406
	02/27/2014		30.0	0.758	0.710	- -	- -	63.2	418
	08/21/2014		26.6	1.10	1.23	- -	- -	68.0	395
	02/25/2015		26	1.1	1.5	- -	- -	66	390
	08/27/2015		27.3	0.961	1.70	- -	- -	72.2	441
	03/09/2016		28.9	1.09	1.76	- -	- -	68.1	- -
	08/17/2016		38.4	1.04	1.93	- -	- -	69.3	436
	02/07/2017		54.6	0.978	2.91	- -	- -	78.9	- -
	08/17/2017		61.5	1.07	2.58	- -	- -	68.1	453
	04/05/2018		48.3	1.04	2.14	- -	- -	63.4	- -
	10/01/2018		42.0	1.03	2.59	- -	- -	65.7	402
	04/04/2019		42.0	1.06	2.80	- -	- -	59.8	- -
	10/24/2019		50.2	1.10	2.72	- -	- -	61.2	389
	06/18/2020		51.8	1.11	3.48	- -	- -	68.2	- -
	06/18/2020	FD	51.4	1.11	3.37	- -	- -	68.0	- -
	10/08/2020		49.9	1.04	3.48	- -	- -	64.4	403
	04/15/2021		50.6	0.926	4.04	- -	- -	68.6	- -
	09/16/2021		52.4	0.914	3.80	- -	- -	73.6	438
	04/14/2022		51.9	0.985	3.79	- -	- -	73.1	- -
	10/13/2022		61.2	0.937	- -	4.08	<0.0420	72.0	448
	03/23/2023		67.1	0.873	- -	3.92	<0.0420	69.1	- -
	10/05/2023		91.7	0.809	- -	5.21	0.0657 J	71.1	507
	04/04/2024		97.5	0.827	- -	6.14	<0.0420	76.1	511
MW-2	06/22/2009		252	0.765	2.69	- -	- -	66.8	988
	01/19/2010		246	0.672	3.39	- -	- -	55.1	966
	08/16/2010		276	0.824	3.23	- -	- -	55.9	1,180
	03/03/2011		221	0.763	3.49	- -	- -	57.6	1,010
	07/14/2011		190	0.647	2.98	- -	- -	58.4	966
	01/30/2012		214	0.784	3.43	- -	- -	75.1	1,230
	07/24/2012		201	0.898	3.24	- -	- -	76.3	908
	02/19/2013		213	0.810	3.90	- -	- -	86.6	834
	08/20/2013		178	0.920	5.33	- -	- -	88.9	682
	02/25/2014		139	0.693	5.25	- -	- -	79.4	616
	08/21/2014		122	0.812	6.17	- -	- -	82.3	588
	02/24/2015		130	0.92	7.9	- -	- -	94	710
	08/28/2015		343	1.41	8.33	- -	- -	152	1,000
	03/07/2016		- -	- -	- -	- -	- -	- -	- -
	08/18/2016		123	0.864	6.84	- -	- -	71.8	640
	02/07/2017		- -	- -	- -	- -	- -	- -	- -
	08/16/2017		126	0.977	4.83	- -	- -	70.7	596
	04/05/2018		- -	- -	- -	- -	- -	- -	- -
	10/01/2018		142	0.839	4.46	- -	- -	83.4	693
	04/04/2019		- -	- -	- -	- -	- -	- -	- -
	10/24/2019		159	0.914	3.46	- -	- -	75.0	602
	06/18/2020		- -	- -	- -	- -	- -	- -	- -
	10/08/2020		151	0.915	3.66	- -	- -	96.0	713
	04/15/2021		- -	- -	- -	- -	- -	- -	- -
	09/16/2021		122	0.936	2.77	- -	- -	82.3	606
	04/14/2022		- -	- -	- -	- -	- -	- -	- -
	10/13/2022		133	0.993	- -	3.74	<0.0420	71.0	600
	03/23/2023		- -	- -	- -	- -	- -	- -	- -
	10/05/2023		195	0.878	- -	4.32	<0.0420	62.3	704
	04/04/2024		198	0.891	- -	3.22	<0.0420	74.9	671

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-3	06/16/2009		29.1	3.38	2.19	- -	- -	64.6	504
	01/14/2010		49.9	3.18	2.11	- -	- -	76.5	540
	01/14/2010	FD	49.8	3.18	2.11	- -	- -	75.0	552
	08/19/2010		72.7	2.99	1.52	- -	- -	77.7	518
	02/24/2011		88.2	2.58	3.02	- -	- -	80.5	566
	07/15/2011		67.3	2.37	2.59	- -	- -	74.7	568
	01/30/2012		65.6	2.94	2.37	- -	- -	86.3	472
	07/25/2012		35.0	2.70	<2.00	- -	- -	81.3	436
	02/27/2013		54.2	2.47	2.30	- -	- -	89.5	478
	08/22/2013		46.1	2.40	2.06	- -	- -	81.9	456
	02/26/2014		36.9	1.84	2.08	- -	- -	79.1	430
	08/21/2014		30.0	1.84	1.53	- -	- -	78.0	420
	02/26/2015		31	1.5	1.9	- -	- -	74	420
	02/26/2015	FD	32	1.6	2.0	- -	- -	74	420
	08/26/2015		27.3	1.55	1.88	- -	- -	77.6	520
	03/08/2016		23.9	1.32	1.84	- -	- -	65.4	- -
	08/18/2016		24.4	1.16	1.81	- -	- -	66.3	- -
	02/07/2017		25.4	1.25	1.83	- -	- -	77.3	- -
	08/16/2017		29.9	1.15	1.88	- -	- -	71.6	- -
	04/05/2018		26.9	0.896	1.75	- -	- -	73.1	- -
	10/01/2018		30.9	0.783	1.79	- -	- -	74.5	- -
	04/04/2019		37.9	0.628	1.73	- -	- -	73.4	- -
	10/24/2019		29.8	0.648	1.49	- -	- -	75.4	- -
	06/18/2020		30.9	0.442	1.84	- -	- -	76.5	- -
	10/08/2020		28.8	0.369	1.75	- -	- -	72.5	- -
	04/15/2021		26.7	0.353	1.85	- -	- -	76.1	- -
	09/16/2021		29.1	0.326	1.81	- -	- -	80.1	- -
	04/14/2022		27.4	0.357	1.63	- -	- -	73.9	- -
	10/13/2022		29.4	0.289 B	- -	1.68	<0.0420	71.8	- -
	03/23/2023		27.3	0.276	- -	1.50	<0.0420	67.5	- -
	10/05/2023		30.7	0.322	- -	1.69	<0.0420	68.0	- -
	04/04/2024		34.1	0.229	- -	2.13	<0.0420 [R]	74.8	- -
MW-4	06/16/2009		28.9	0.841	1.84	- -	- -	61.5	422
	01/13/2010		29.3	1.10	1.67	- -	- -	66.7	416
	08/19/2010		26.1	1.10	1.10	- -	- -	65.8	324
	02/28/2011		27.1	1.02	1.91	- -	- -	64.4	378
	07/15/2011		25.8	1.12	1.57	- -	- -	63.6	422
	01/30/2012		30.0	1.08	1.71	- -	- -	73.4	388
	07/24/2012		28.9	1.18	<2.00	- -	- -	69.4	414
	02/21/2013		26.6	1.05	<2.00	- -	- -	75.5	360
	08/20/2013		26.4	1.20	1.72	- -	- -	71.6	382
	02/25/2014		26.9	0.877	2.02	- -	- -	75.5	390
	08/20/2014		24.1	1.15	1.64	- -	- -	70.2	372
	02/24/2015		24	1.1	2.1	- -	- -	66	390
	08/28/2015		28.8	1.26	2.32	- -	- -	63.8	479
	08/15/2016		25.1	1.02	2.24	- -	- -	60.3	411
	08/17/2017		34.0	1.17	2.39	- -	- -	57.5	384
	10/01/2018		62.6	1.04	2.60	- -	- -	53.6	574
	10/24/2019		75.6	1.10	2.62	- -	- -	55.0	403
	10/08/2020		98.7	1.04	3.34	- -	- -	53.2	507
	09/16/2021		138	0.857	3.84	- -	- -	55.8	629
	10/13/2022		114	0.947	- -	3.64	<0.0420	58.6	616
	10/05/2023		97.7	0.917	- -	4.24	<0.0420	55.2	520
	04/04/2024		122	0.952	- -	4.39	<0.0420	70.7	581

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-5	06/16/2009		186	1.39	3.31	- -	- -	131	952
	01/18/2010		26.4	0.781	4.91	- -	- -	80.6	508
	08/20/2010		18.5	1.13	3.43	- -	- -	77.7	440
	02/28/2011		29.8	1.03	2.91	- -	- -	70.5	570
	07/19/2011		20.9	0.858	2.72	- -	- -	59.0	524
	01/31/2012		26.9	1.04	2.49	- -	- -	61.2	504
	01/31/2012	FD	27.1	1.05	2.54	- -	- -	62.0	436
	07/25/2012		15.9	1.10	2.22	- -	- -	50.1	434
	02/21/2013		10.9	1.04	2.01	- -	- -	40.8	412
	08/20/2013		13.9	1.16	2.05	- -	- -	44.2	448
	02/25/2014		11.8	0.877	2.52	- -	- -	48.4	436
	08/19/2014		8.71	1.16	1.68	- -	- -	44.6	478
	02/24/2015		21	1.4	2.2	- -	- -	43	520
	08/24/2015		19.9	1.52	1.97	- -	- -	39.9	586
	08/17/2016		18.4	1.62	2.15	- -	- -	38.1	449
	08/16/2017		16.0	1.85	2.26	- -	- -	34.2	479
	10/01/2018		23.8	1.31	2.57	- -	- -	26.8	440
	10/24/2019		12.9	1.30	2.04	- -	- -	25.6	335
	10/08/2020		15.1	1.22	2.11	- -	- -	22.2	374
	09/16/2021		28.0	1.03	2.40	- -	- -	22.2	415
	10/13/2022		13.3	0.981	- -	3.03	<0.0420	24.5	393
	10/05/2023		9.92	0.951	- -	2.98	<0.0420	24.2	366
	04/04/2024		11.9	0.991	- -	2.61	<0.0420	23.9	368
MW-6	06/18/2009		188	0.113	0.678	- -	- -	101	844
	06/18/2009	FD	168	<0.100	0.682	- -	- -	90.4	812
	02/02/2010		334	<0.100	0.822	- -	- -	90.2	1,400
	08/19/2010		285	<0.100	<1.00	- -	- -	111	1,350
	03/01/2011		282	<0.100	0.750	- -	- -	80.7	1,340
	07/20/2011		174	<0.500	<0.500	- -	- -	114	970
	02/02/2012		58.4	0.313	<1.00	- -	- -	88.0	398
	07/24/2012		77.7	0.217	<2.00	- -	- -	80.1	690
	02/27/2013		65.4	0.368	<2.00	- -	- -	77.1	542
	02/27/2013	FD	65.7	0.370	<2.00	- -	- -	77.6	556
	08/21/2013		43.3	0.441	<0.200	- -	- -	76.6	502
	02/27/2014		124	0.309	<0.500	- -	- -	51.0	814
	08/21/2014		132	0.230	<1.00	- -	- -	34.4	832
	02/25/2015		42	0.58	0.17	- -	- -	67	500
	08/27/2015		32.4	0.505	0.835	- -	- -	66.5	473
	03/10/2016		34.5	0.621	0.688	- -	- -	71.8	- -
	08/17/2016		27.0	0.642	1.06	- -	- -	68.5	1,000
	02/07/2017		31.3	0.665	1.20	- -	- -	79.9	- -
	08/16/2017		46.8	0.761	1.52	- -	- -	73.8	463
	04/05/2018		55.8	0.719	2.04	- -	- -	76.7	- -
	10/01/2018		55.9	0.691	2.02	- -	- -	79.0	485
	04/04/2019		47.4	0.717	2.04	- -	- -	72.9	- -
	10/24/2019		50.0	0.982	2.48	- -	- -	73.1	438
	06/18/2020		55.4	1.03	3.00	- -	- -	75.2	- -
	06/18/2020	FD	55.3	1.03	2.97	- -	- -	74.9	- -
	10/08/2020		50.9	1.02	2.82	- -	- -	66.1	445
	04/15/2021		53.9	0.854	3.66	- -	- -	69.6	- -
	09/16/2021		59.3	0.840	4.05	- -	- -	78.3	517
	04/14/2022		91.2	0.807	5.60	- -	- -	78.6	- -
	10/13/2022		84.7	0.849	- -	5.26	<0.0420	72.3	512
	03/23/2023		107	0.722	- -	5.87	<0.0420	73.0	- -
	10/05/2023		120	0.827	- -	8.82	<0.0420	80.9	635
	04/04/2024		115	0.781	- -	11.0	<0.0420	90.8	660
	10/03/2024		152	0.595	- -	14.0	<0.0794	121	- -

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HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-7	06/19/2009		30.6	1.12	1.66	- -	- -	67.2	384
	02/02/2010		28.0	0.854	1.72	- -	- -	62.2	350
	08/18/2010		27.2	0.570	1.12	- -	- -	60.2	370
	03/01/2011		26.5	0.599	1.91	- -	- -	58.2	376
	07/20/2011		23.3	0.626	1.35	- -	- -	56.8	396
	02/02/2012		25.5	0.633	1.66	- -	- -	61.5	356
	07/27/2012		23.6	0.796	2.01	- -	- -	55.2	342
	02/27/2013		25.8	0.709	<2.00	- -	- -	67.3	286
	08/21/2013		26.9	0.748	1.62	- -	- -	60.8	290
	02/27/2014		31.0	0.501	1.50	- -	- -	62.1	408
	08/21/2014		30.8	0.642	1.72	- -	- -	62.2	380
	02/25/2015		35	0.71	2.0	- -	- -	60	420
	08/27/2015		38.4	0.866	2.28	- -	- -	66.9	471
MW-8	06/18/2009		219	0.730	3.46	- -	- -	73.3	798
	01/18/2010		151	0.493	3.80	- -	- -	67.6	742
	08/18/2010		279	0.560	7.08	- -	- -	65.3	1,260
	02/25/2011		144	0.820	<0.500	- -	- -	87.5	694
	07/19/2011		313	0.522	4.49	- -	- -	72.4	1,460
	02/01/2012		376	0.498	8.21	- -	- -	102	1,530
	07/27/2012		224	0.490	8.55	- -	- -	122	1,080
	02/26/2013		246	0.371	11.1	- -	- -	118	1,080
	08/21/2013		101	0.513	9.49	- -	- -	129	788
	02/27/2014		368	0.417	1.43	- -	- -	88.1	1,440
	08/21/2014		360	0.268	4.42	- -	- -	76.6	1,310
	02/26/2015		220	0.49	7.0	- -	- -	86	960
	08/27/2015		258	0.368 J	8.80	- -	- -	88.5	1,260
	03/08/2016		291	0.357	7.84	- -	- -	78.2	1,290
	08/18/2016		94.1	0.537	3.67	- -	- -	71.4	593
	02/08/2017		50.7	0.760	3.02	- -	- -	78.6	- -
	08/17/2017		29.4	0.798	4.02	- -	- -	76.1	699
	04/05/2018		170	0.599	5.61	- -	- -	77.1	877
	10/01/2018		159	0.653	6.49	- -	- -	85.8	807
	04/04/2019		148	0.552	6.29	- -	- -	76.0	819
	10/24/2019		169	0.669	5.98	- -	- -	87.2	765
	06/18/2020		293	0.610	7.50	- -	- -	78.6	1,180
	10/08/2020		139	0.726	5.15	- -	- -	79.5	707
	04/15/2021		126	0.710	5.80	- -	- -	78.2	648
	09/16/2021		168	0.620	7.95	- -	- -	76.1	863
	04/14/2022		193	0.618	8.40	- -	- -	81.6	881
	10/13/2022		279	0.570	- -	8.32	<0.0420	89.8	1,260
	03/23/2023		--(2)	--(2)	- -	--(2)	--(2)	--(2)	--(2)
	10/05/2023		311	0.484	- -	1.59	0.441	35.2	1,240
	04/04/2024		444	0.525	- -	1.89	<0.0420	107	1,390
	10/03/2024		469	0.500	- -	10.2	<0.0794	113	1,510
MW-9	06/16/2009		23.0	1.69	0.748	- -	- -	73.2	380
	01/14/2010		23.9	1.78	1.72	- -	- -	74.4	450
	08/19/2010		21.8	1.64	1.32	- -	- -	75.2	412
	03/01/2011		24.1	1.63	2.01	- -	- -	74.6	414
	07/15/2011		24.9	1.65	1.78	- -	- -	70.2	434
	01/31/2012		31.5	2.22	1.43	- -	- -	80.5	484
	07/25/2012		30.4	1.99	<2.00	- -	- -	77.8	420
	02/27/2013		31.3	1.11	2.82	- -	- -	79.1	440
	08/22/2013		35.7	1.80	3.01	- -	- -	74.0	466
	02/26/2014		54.0	1.48	3.17	- -	- -	71.5	452
	08/21/2014		197	0.655	2.35	- -	- -	111	932
	02/25/2015		49	0.69	3.5	- -	- -	69	440
	08/26/2015		46.6	0.527	4.17	- -	- -	67.5	495
	08/17/2016		81.8	0.544	3.11	- -	- -	73.8	- -
	08/16/2017		100	0.441	3.73	- -	- -	73.9	- -
	10/01/2018		232	0.489	9.00	- -	- -	110	- -
	10/24/2019		220	0.291	5.70	- -	- -	108	- -
	10/08/2020		126	0.300	3.60	- -	- -	93.3	- -
	09/16/2021		123	0.366	3.41	- -	- -	78.6	- -
	10/13/2022		278	0.289 B	- -	10.9	<0.0420	93.6	- -
	10/05/2023		209	0.291	- -	9.76	0.633	126	- -
	04/04/2024		134	0.328	- -	3.55	0.199	85.9	- -

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-10	06/16/2009		32.2	0.878	1.83	- -	- -	76.5	378
	01/13/2010		33.4	1.05	1.84	- -	- -	77.9	436
	08/19/2010		31.7	1.07	1.91	- -	- -	79.8	508
	03/03/2011		32.8	0.945	2.06	- -	- -	79.1	422
	07/15/2011		30.7	1.06	1.68	- -	- -	75.7	470
	01/31/2012		42.9	1.00	1.85	- -	- -	87.4	444
	07/25/2012		42.7	1.10	<2.00	- -	- -	82.6	382
	02/27/2013		48.0	0.960	<2.00	- -	- -	83.5	416
	08/22/2013		95.0	0.994	2.12	- -	- -	72.2	516
	02/26/2014		112	0.674	2.43	- -	- -	70.9	568
	08/21/2014		156	0.856	2.08	- -	- -	68.5	750
	02/26/2015		120	0.71	2.1	- -	- -	68	540
	08/26/2015		115	1.19	1.92	- -	- -	102	551
	08/17/2016		57.5	0.954	1.61	- -	- -	75.0	- -
	08/16/2017		94.0	0.966	2.15	- -	- -	74.5	- -
	10/01/2018		33.3	0.955	1.69	- -	- -	76.3	- -
	10/24/2019		27.4	1.07	1.55	- -	- -	67.6	- -
	10/08/2020		35.2	1.04	1.95	- -	- -	63.2	- -
	09/16/2021		30.3	0.902	2.20	- -	- -	65.8	- -
	10/13/2022		18.1	1.03	- -	1.99	<0.0420	60.9	- -
	10/05/2023		28.5	0.875	- -	2.08	<0.0420	54.2	- -
	04/04/2024		43.3	0.969	- -	2.26	<0.0420	61.4	- -
MW-11	06/18/2009		204	0.579	1.23	- -	- -	43.1	994
	01/18/2010		164	0.527	1.37	- -	- -	71.4	842
	08/18/2010		146	0.616	2.38	- -	- -	50.6	802
	02/25/2011		415	0.549	<0.500	- -	- -	82.3	1,510
	07/19/2011		134	0.575	0.778	- -	- -	57.0	894
	02/01/2012		175	0.749	<0.500	- -	- -	4.96	966
	07/27/2012		133	0.708	<2.00	- -	- -	59.7	784
	02/27/2013		140	0.576	3.11	- -	- -	32.6	908
	02/27/2013	FD	143	0.585	3.23	- -	- -	32.0	908
	08/21/2013		182	0.668	4.04	- -	- -	75.3	854
	08/21/2013	FD	172	0.673	4.19	- -	- -	76.2	868
	02/28/2014		--(1)	--(1)	--(1)	- -	- -	--(1)	--(1)
	08/20/2014		--(1)	--(1)	<1.00	- -	- -	--(1)	--(1)
	02/27/2015		--(1)	--(1)	--(1)	- -	- -	--(1)	--(1)
	08/28/2015		--(1)	--(1)	--(1)	- -	- -	--(1)	--(1)
	08/28/2015	FD	--(1)	--(1)	--(1)	- -	- -	--(1)	--(1)
	03/09/2016		--(1)	--(1)	--(1)	- -	- -	--(1)	--(1)
	03/09/2016	FD	--(1)	--(1)	--(1)	- -	- -	--(1)	--(1)
	08/15/2016		DRY WELL - PLUGGED AND ABANDONED DECEMBER 2016						
MW-11R	02/08/2017		- -	- -	- -	- -	- -	- -	972
	02/08/2017	FD	- -	- -	- -	- -	- -	- -	980
	08/17/2017		271	0.599	2.38	- -	- -	157	1,170
	04/05/2018		- -	- -	- -	- -	- -	- -	1,080
	10/01/2018		293	0.587	3.94	- -	- -	116	1,220
	04/04/2019		- -	- -	- -	- -	- -	- -	1,480
	10/24/2019		344	0.574	6.23	- -	- -	130	1,330
	06/18/2020		- -	- -	- -	- -	- -	- -	1,280
	10/08/2020		303	0.495	4.80	- -	- -	90.2	1,200
	04/15/2021		- -	- -	- -	- -	- -	- -	1,120
	09/16/2021		321	0.455	2.87	- -	- -	93.8	1,270
	04/14/2022		- -	- -	- -	- -	- -	- -	1,140
	10/13/2022		305	0.537	- -	3.09	<0.0420	83.6	1,150
	03/23/2023		- -	- -	- -	- -	- -	- -	--(2)
	10/05/2023		285	0.425	- -	0.932	<0.0420	64.8	1,190
	04/04/2024		339	0.557	- -	1.94	<0.0420	86.9	1,230
	10/03/2024		- -	- -	- -	- -	- -	- -	- -

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-12	06/16/2009		23.0	1.16	1.98	- -	- -	49.6	354
	01/18/2010		26.1	1.05	2.31	- -	- -	49.8	398
	08/20/2010		25.8	1.22	2.00	- -	- -	50.3	340
	02/25/2011		28.5	1.14	<0.500	- -	- -	50.8	402
	07/19/2011		26.8	0.856	2.91	- -	- -	51.2	410
	--		DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013						
MW-12R	08/21/2013		31.2	1.40	8.14	- -	- -	71.1	404
	02/27/2014		28.3	0.886	7.38	- -	- -	63.4	432
	08/20/2014		24.5	1.05	6.98	- -	- -	67.2	410
	02/24/2015		29	1.1	7.0	- -	- -	63	500
	08/25/2015		19.8	1.02	7.36	- -	- -	71.1	527
	03/09/2016		21.6	0.985	6.35	- -	- -	68.2	503
	08/18/2016		25.1	0.810	6.14	- -	- -	75.9	394
	02/08/2017		28.4	0.890	5.25	- -	- -	75.0	509
	08/16/2017		31.0	0.813	5.34	- -	- -	68.8	528
	04/05/2018		33.2	0.699	4.77	- -	- -	71.1	520
	04/05/2018	FD	31.3	0.730	4.78	- -	- -	71.7	535
	10/01/2018		32.9	0.685	4.88	- -	- -	82.9	503
	10/01/2018	FD	32.1	0.645	4.90	- -	- -	87.4	588
	04/04/2019		41.2	0.551	5.09	- -	- -	77.1	623
	04/04/2019	FD	41.8	0.534	5.61	- -	- -	76.1	624
	10/24/2019		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	06/18/2020		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						
MW-12R2	10/08/2020		80.0	0.809	3.50	- -	- -	55.5	430
	04/15/2021		86.7	0.924	4.32	- -	- -	59.1	456
	09/16/2021		92.3	0.881	4.11	- -	- -	62.6	496
	04/14/2022		92.1	0.912	4.98	- -	- -	65.0	508
	10/13/2022		95.0	0.920	- -	4.91	<0.0420	73.9	508
	03/23/2023		66.6	0.790	- -	6.98	<0.0420	79.9	538
	10/05/2023		38.7	0.729	- -	6.98	<0.0420	110	600
	04/04/2024		21.4	0.410	- -	8.79	<0.0420 [R]	78.7	567
	10/03/2024		- -	- -	- -	- -	- -	- -	- -
MW-13	06/16/2009		425	0.220	2.65	- -	- -	138	1,790
	01/18/2010		604	0.170	1.08	- -	- -	79.8	2,210
	08/18/2010		390	0.278	<1.00	- -	- -	144	1,720
	02/25/2011		340	0.281	<0.500	- -	- -	235	1,540
	07/19/2011		351	0.327	<0.500	- -	- -	244	1,960
	02/01/2012		418	0.322	<0.500	- -	- -	122	1,590
	07/26/2012		462	0.422	<2.00	- -	- -	123	2,150
	02/26/2013		430	0.366	<2.00	- -	- -	135	1,610
	08/21/2013		548	0.389	<1.00	- -	- -	108	2,000
	02/27/2014		588	0.282	<0.500	- -	- -	106	2,380
	08/19/2014		485	<1.00	<1.00	- -	- -	87.2	1,900
	02/27/2015		550	0.38	0.056 J	- -	- -	59	1,600
	08/26/2015		396	0.505	0.956	- -	- -	107	1,890
	03/08/2016		217	0.552	2.53	- -	- -	75.7	972
	08/17/2016		336	0.396	1.81	- -	- -	97.5	1,340
	02/08/2017		307	0.428	1.28	- -	- -	102	1,140
	08/17/2017		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	04/05/2018		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	09/26/2018		DRY WELL - PLUGGED AND ABANDONED SEPTEMBER 2018						
MW-13R	10/01/2018		407	0.629	3.50	- -	- -	90.2	1,410
	04/04/2019		464	0.326	3.66	- -	- -	94.8	1,980
	10/24/2019		354	0.410	4.02	- -	- -	74.5	1,360
	06/18/2020		294	0.421	5.15	- -	- -	153	1,380
	06/18/2020	FD	297	0.413	5.28	- -	- -	153	1,310
	10/08/2020		272	0.375	5.50	- -	- -	136	1,420
	10/08/2020	FD	276	0.337	5.40	- -	- -	156	1,250
	04/15/2021		291	0.370	6.15	- -	- -	123	1,200
	09/16/2021		285	0.368	5.72	- -	- -	160	1,320
	09/16/2021	FD	270	0.372	5.76	- -	- -	154	1,240
	04/14/2022		242	0.402	5.35	- -	- -	144	1,120
	10/13/2022		206	0.413	- -	3.08	<0.0420	110	1,020
	10/13/2022	FD	206	0.421	- -	3.11	0.0829 JB	111	993
	03/23/2023		--[2]	--[2]	- -	--[2]	--[2]	--[2]	--[2]
	10/05/2023		244	0.345	- -	5.42	<0.0420	110	1,120
	04/04/2024		261	0.433	- -	1.07	<0.0420	112	1,050
	10/03/2024		315	0.349	- -	5.73	<0.0794	155	1,460

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-14	06/16/2009		93.0	0.851	5.16	- -	- -	60.9	540
	01/18/2010		103	0.810	6.03	- -	- -	59.0	598
	08/20/2010		74.1	0.986	2.76	- -	- -	61.3	340
	02/25/2011		58.2	0.918	2.32	- -	- -	58.7	440
	07/18/2011		48.4	1.05	1.36	- -	- -	53.0	482
	01/31/2012		59.7	0.984	1.58	- -	- -	58.3	444
	07/25/2012		69.3	1.03	<2.00	- -	- -	54.8	446
	02/21/2013		- -	- -	<2.00	- -	- -	- -	- -
	02/22/2013		71.9	0.795	- -	- -	- -	52.9	428
	08/22/2013		- -	- -	- -	- -	- -	- -	- -
	02/28/2014		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	08/20/2014		--[1]	--[1]	1.10	- -	- -	--[1]	534
	02/27/2015		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	08/27/2015		104	0.940	1.96	- -	- -	44.6	611
	08/19/2016		118	0.796	4.13	- -	- -	39.3	674
	08/16/2017		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	09/27/2018		DRY WELL - PLUGGED AND ABANDONED SEPTEMBER 2018						
MW-14R	10/01/2018		216	1.15	2.81	- -	- -	54.3	867
	10/24/2019		518	0.873	4.96	- -	- -	61.1	1,840
	10/08/2020		394	0.864	4.81	- -	- -	49.8	1,440
	09/16/2021		394	0.723	5.20	- -	- -	50.6	1,440
	10/13/2022		304	0.744	- -	3.95	<0.0420	49.1	1,160
	10/05/2023		170	0.861	- -	2.71	<0.0420	45.2	731
	04/04/2024		92.8	1.02	- -	1.81	<0.0420	43.5	484
MW-15	08/20/2010		221	0.921	3.22	- -	- -	77.6	776
	02/24/2011		190	0.885	4.28	- -	- -	67.0	738
	07/14/2011		236	0.701	4.18	- -	- -	60.9	940
	01/30/2012		304	0.840	4.09	- -	- -	78.6	1,330
	07/24/2012		291	0.965	8.22	- -	- -	80.3	1,060
	02/19/2013		254	0.819	5.12	- -	- -	76.0	882
	08/20/2013		379	0.910	6.82	- -	- -	71.3	1,280
	08/20/2013	FD	381	0.931	6.83	- -	- -	72.7	1,230
	02/24/2014		256	0.715	7.86	- -	- -	83.0	858
	02/24/2014	FD	263	0.832	8.07	- -	- -	82.5	810
	08/21/2014		148	1.02	8.52	- -	- -	97.5	690
	08/21/2014	FD	150	1.01	8.53	- -	- -	95.6	706
	02/24/2015		150	0.90	8.4	- -	- -	94	650
	08/27/2015		181	1.13	8.48	- -	- -	123	728
	08/27/2015	FD	234	1.46	8.47	- -	- -	158	729
	03/07/2016		160	0.877	6.53	- -	- -	85.9	727
	08/15/2016		169	0.685	5.19	- -	- -	93.2	721
	08/15/2016	FD	165	0.738	5.09	- -	- -	93.3	723
	02/06/2017		177	0.781	5.80	- -	- -	105	800
	08/16/2017		219	0.772	5.02	- -	- -	90.2	808
	04/05/2018		222	0.644	4.28	- -	- -	111	808
	10/01/2018		348	0.549	4.26	- -	- -	105	2,230
	04/04/2019		537	0.478	3.85	- -	- -	100	1,880
	10/24/2019		437	0.592	3.29	- -	- -	111	1,370
	06/18/2020		288	0.720	3.88	- -	- -	117	988
	10/08/2020		327	0.583	3.85	- -	- -	99.4	1,150
	04/15/2021		173	0.610	4.00	- -	- -	98.3	679
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021						
MW-15R	09/16/2021		363	0.776	3.56	- -	- -	102	1,080
	04/14/2022		595	0.573	3.50	- -	- -	92.3	1,430
	10/13/2022		466	0.542	- -	3.41	<0.0420	103	1,440
	03/23/2023		436	0.560	- -	2.93	<0.0420	92.5	1,550
	10/05/2023		454	0.529	- -	2.96	<0.0420	91.0	1,550
	04/04/2024		366	0.713	- -	2.78	<0.0420	88.7	1,040
	10/03/2024		507	0.545	- -	5.97	<0.0794	96.3	1,780

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-16	08/20/2010		25.3	0.930	1.13	- -	- -	73.7	406
	02/24/2011		28.1	0.928	2.36	- -	- -	73.7	412
	07/15/2011		25.5	1.04	1.82	- -	- -	72.0	484
	07/15/2011	FD	21.0	0.733	1.98	- -	- -	54.1	476
	01/30/2012		27.9	0.994	1.79	- -	- -	77.6	398
	07/24/2012		26.6	1.14	<2.00	- -	- -	72.6	404
	02/20/2013		24.0	0.966	<2.00	- -	- -	68.1	316
	08/20/2013		24.7	1.02	1.75	- -	- -	64.0	392
	02/25/2014		23.9	0.766	1.83	- -	- -	62.3	362
	08/19/2014		21.7	0.975	1.41	- -	- -	64.9	362
	02/24/2015		20	1.0	1.9	- -	- -	61	360
	08/27/2015		21.3	1.07	2.34	- -	- -	66.0	408
	08/15/2016		22.3	0.859	1.69	- -	- -	63.5	418
	08/17/2017		25.5	0.940	1.94	- -	- -	66.4	392
	10/01/2018		28.1	0.900	2.16	- -	- -	67.8	386
	10/24/2019		32.0	1.01	2.10	- -	- -	69.8	432
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						
MW-16R	10/08/2020		28.8	1.19	2.11	- -	- -	61.5	372
	09/16/2021		41.9	0.805	2.95	- -	- -	68.2	443
	10/13/2022		30.0	0.913	- -	2.63	<0.0420	62.2	419
	10/05/2023		36.8	0.884	- -	2.76	<0.0420	56.3	376
	04/04/2024		36.4	1.00	- -	2.08	<0.0420	60.5	350
MW-17	08/20/2010		426	0.517	4.27	- -	- -	72.6	1,650
	02/24/2011		412	0.435	5.33	- -	- -	80.0	1,634
	07/18/2011		336	0.753	4.07	- -	- -	82.7	1,850
	--		DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013						
MW-17R	08/22/2013		246	0.602	3.44	- -	- -	81.7	1,190
	02/27/2014		184	0.425	0.629	- -	- -	92.5	904
	08/22/2014		170	0.602	2.70	- -	- -	94.8	860
	02/26/2015		150	0.65	2.6	- -	- -	75	670
	08/27/2015		110	0.859	2.86	- -	- -	87.4	658
	03/08/2016		65.3	0.722	2.55	- -	- -	76	465
	08/17/2016		219	0.578	4.37	- -	- -	79.8	526
	02/09/2017		150	0.654	3.01	- -	- -	86.3	715
	08/16/2017		60.0	0.770	2.21	- -	- -	85.9	502
	04/05/2018		124	0.664	2.46	- -	- -	68.2	587
	04/05/2018	FD	124	0.679	2.48	- -	- -	69.7	589
	10/01/2018		136	0.631	2.88	- -	- -	79.7	682
	04/04/2019		94.5	0.627	2.21	- -	- -	78.5	568
	04/04/2019	FD	94.3	0.629	2.53	- -	- -	78.5	562
	10/24/2019		67.7	0.771	1.94	- -	- -	89.9	467
	06/18/2020		80.6	0.786	2.13	- -	- -	85.9	503
	10/08/2020		57.6	0.805	2.11	- -	- -	84.7	465
	04/15/2021		80.5	0.641	2.64	- -	- -	82.0	505
	09/16/2021		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	04/14/2022		126	0.634	3.06	- -	- -	72.5	586
	10/13/2022		138	0.640	- -	3.43	<0.0420	67.8	663
	03/23/2023		184	0.486	- -	4.43	<0.0420	71.0	851
	10/05/2023		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-18	08/23/2010		176	0.456	0.733	- -	- -	287	1,080
	02/24/2011		286	0.514	4.14	- -	- -	298	1,240
	07/18/2011		218	0.800	5.74	- -	- -	234	1,290
	01/31/2012		106	0.722	3.89	- -	- -	94.3	584
	07/25/2012		103	0.753	2.01	- -	- -	63.4	562
	02/22/2013		181	0.564	4.02	- -	- -	116	782
	08/22/2013		197	0.531	5.59	- -	- -	130	1,100
	02/26/2014		145	0.514	4.36	- -	- -	89.1	680
	08/20/2014		143	0.590	1.97	- -	- -	123	678
	02/26/2015		130	0.68	3.5	- -	- -	97	670
	08/25/2015		136	0.703	2.73	- -	- -	65.8	844
	08/17/2016		162	0.557	3.71	- -	- -	53.4	799
	08/16/2017		234	0.648	6.10	- -	- -	93.5	1,030
	10/01/2018		99.6	0.599	2.48	- -	- -	73.8	659
	10/24/2019		120	0.634	3.82	- -	- -	113	653
	10/08/2020		214	0.491	4.72	- -	- -	171	1,090
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021						
MW-18R	09/16/2021		138	0.677	3.32	- -	- -	96.5	653
	10/13/2022		95.0	0.801	- -	1.89	<0.0420	33.0	443
	10/05/2023		83.3	0.791	- -	1.73	<0.0420	42.2	419
	04/04/2024		97.8	0.847	- -	1.69	<0.0420	35.3	427
MW-19	08/23/2010		469	0.536	2.94	- -	- -	178	1,650
	02/24/2011		235	0.713	2.87	- -	- -	90.7	828
	07/18/2011		688	0.734	3.66	- -	- -	142	2,880
	01/31/2012		610	0.568	4.12	- -	- -	121	1,770
	07/25/2012		1,130	0.450	5.11	- -	- -	117	3,570
	02/26/2013		540	0.519	4.21	- -	- -	115	1,650
	08/22/2013		487	0.645	3.43	- -	- -	92.6	1,430
	08/22/2013	FD	475	0.672	3.38	- -	- -	95.7	1,670
	02/26/2014		264	0.576	2.34	- -	- -	72.3	850
	02/26/2014	FD	288	0.555	2.51	- -	- -	76.0	950
	08/19/2014		233	0.592	2.48	- -	- -	84.5	774
	08/19/2014	FD	241	0.627	2.59	- -	- -	84.7	820
	02/26/2015		140	0.87	2.3	- -	- -	82	630
	02/26/2015	FD	130	0.86	2.4	- -	- -	85	660
	08/26/2015		236	0.789	2.86	- -	- -	70.9	888
	03/08/2016		297	0.749	2.81	- -	- -	63.2	1,170
	08/17/2016		470	0.749	2.93	- -	- -	90.3	1,660
	02/08/2017		302	0.735	2.39	- -	- -	57.6	864
	08/16/2017		236	0.832	2.02	- -	- -	57.8	907
	08/16/2017	FD	257	0.626	2.08	- -	- -	61.8	944
	04/05/2018		176	0.797	1.48	- -	- -	61.3	722
	10/01/2018		292	0.706	2.96	- -	- -	85.6	1,270
	04/04/2019		276	0.647	2.32	- -	- -	81.8	1,090
	10/24/2019		323	0.671	3.76	- -	- -	126	1,220
	06/18/2020		299	0.657	2.88	- -	- -	168	1,290
	10/08/2020		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	04/15/2021		--[1]	--[1]	--[1]	- -	- -	--[1]	--[1]
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021						
MW-19R	09/16/2021		297	0.643	2.37	- -	- -	65.2	1,060
	04/14/2022		273	0.643	1.97	- -	- -	55.4	780
	10/13/2022		464	0.537	- -	2.54	<0.0420	103	1,420
	03/23/2023		355	0.484	- -	2.10	<0.0420	88.1	1,290
	10/05/2023		382	0.459	- -	1.98	<0.0420	82.9	1,380
	04/04/2024		349	0.559	- -	1.97	<0.0420	83.1	1,010
	10/03/2024		286	0.688	- -	2.27	<0.0794	64.4	1,140

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-20	08/23/2010		169	0.570	1.74	- -	- -	65.1	868
	02/25/2011		187	0.603	2.58	- -	- -	66.3	840
	07/18/2011		148	0.765	2.06	- -	- -	51.3	1,020
	01/31/2012		174	0.641	2.51	- -	- -	61.4	726
	07/25/2012		189	0.742	2.24	- -	- -	56.0	848
	02/22/2013		155	0.570	2.26	- -	- -	55.8	600
	08/20/2013		180	0.755	2.40	- -	- -	60.4	736
	02/26/2014		159	0.664	2.70	- -	- -	53.4	696
	08/19/2014		138	0.574	2.09	- -	- -	58.5	672
	02/24/2015		120	0.65	2.6	- -	- -	56	690
	08/25/2015		130	0.822	2.61	- -	- -	65.7	750
	08/16/2016		137	0.663	2.50	- -	- -	59.9	652
	08/17/2017		164	0.802	3.12	- -	- -	53.8	757
	10/01/2018		180	0.713	3.86	- -	- -	49.3	785
	10/24/2019		202	0.766	3.97	- -	- -	42.4	825
	10/08/2020		167	0.786	4.47	- -	- -	54.5	762
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021						
MW-20R	09/16/2021		114	0.724	11.7	- -	- -	73.7	688
	10/13/2022		115	0.791	- -	12.0	<0.0420	72.6	629
	10/05/2023		122	0.788	- -	10.0	<0.0420	69.1	663
	04/04/2024		124	0.817	- -	9.50	<0.0420	76.1	625
MW-21	08/23/2010		115	0.250	2.12	- -	- -	52.7	966
	02/28/2011		182	0.257	3.02	- -	- -	56.7	1,050
	02/28/2011	FD	183	0.249	2.99	- -	- -	56.3	1,000
	07/19/2011		191	0.163	2.62	- -	- -	57.0	1,250
	01/31/2012		200	0.229	2.84	- -	- -	64.7	1,040
	07/26/2012		186	0.306	2.64	- -	- -	60.4	1,130
	02/22/2013		160	0.246	2.86	- -	- -	78.3	968
	08/20/2013		156	0.268	3.96	- -	- -	82.5	972
	02/25/2014		134	0.213	3.78	- -	- -	75.9	918
	08/19/2014		156	0.250	3.35	- -	- -	72.7	938
	02/24/2015		160	0.32	3.7	- -	- -	70	1,100
	08/25/2015		197	0.341	3.06	- -	- -	77.0	1,430
	08/16/2016		131	0.253	4.05	- -	- -	71.7	- -
	08/17/2017		- -	- -	- -	- -	- -	- -	- -
	10/01/2018		- -	- -	- -	- -	- -	- -	- -
	10/24/2019		- -	- -	- -	- -	- -	- -	- -
	10/08/2020		- -	- -	- -	- -	- -	- -	- -
	09/16/2021		- -	- -	- -	- -	- -	- -	- -
	10/13/2022		- -	- -	- -	- -	- -	- -	- -
	10/05/2023		- -	- -	- -	- -	- -	- -	- -
	04/04/2024		REMOVED FROM MONITORING PROGRAM						
	10/21/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						
MW-22	08/23/2010		115	0.552	1.76	- -	- -	62.3	726
	02/28/2011		117	0.587	2.36	- -	- -	68.6	678
	07/19/2011		107	0.568	2.06	- -	- -	64.1	740
	01/31/2012		141	0.570	2.26	- -	- -	74.3	766
	07/26/2012		149	0.628	2.09	- -	- -	68.3	830
	02/21/2013		178	0.500	2.30	- -	- -	80.4	798
	08/21/2013		176	0.606	2.94	- -	- -	83.0	890
	02/25/2014		172	0.416	3.53	- -	- -	85.2	842
	08/20/2014		120	1.00	2.36	- -	- -	127	738
	02/24/2015		110	0.57	3.3	- -	- -	81	820
	08/25/2015		118	0.618	4.85	- -	- -	81.1	928
	08/16/2016		128	0.577	5.86	- -	- -	57.6	827
	08/17/2017		87.4	0.644	48.6	- -	- -	53.6	700
	10/01/2018		34.3	0.652	12.9	- -	- -	46.7	883
	10/24/2019		61.9	0.775	6.54	- -	- -	42.7	637
	10/08/2020		49.2	0.800	5.85	- -	- -	41.1	651
	09/16/2021		53.8	0.742	3.58	- -	- -	58.4	659
	10/13/2022		121	0.744	- -	4.98	<0.0420	83.8	--(1)
	10/05/2023		--(1)	--(1)	- -	--(1)	--(1)	--(1)	--(1)
	04/04/2024		--(1)	--(1)	- -	--(1)	--(1)	--(1)	--(1)

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-23	08/23/2010		645	0.782	2.92	- -	- -	121	2,260
	02/28/2011		511	0.676	3.47	- -	- -	81.9	1,540
	07/19/2011		712	0.670	3.79	- -	- -	108	3,090
	02/01/2012		887	0.697	4.07	- -	- -	85.4	2,720
	07/26/2012		774	0.750	3.45	- -	- -	100	3,060
	02/26/2013		662	0.690	3.46	- -	- -	93.9	2,040
	08/21/2013		530	0.808	3.29	- -	- -	115	1,910
	02/25/2014		574	0.605	3.41	- -	- -	89.0	1,860
	08/21/2014		443	0.792	2.89	- -	- -	98.1	1,680
	02/25/2015		57	0.63	3.1	- -	- -	92	1,000
	08/25/2015		431	0.874	4.39	- -	- -	91.9	2,190
	08/17/2016		411	0.792	3.02	- -	- -	88.5	1,400
	08/17/2017		237	0.917	2.45	- -	- -	97.4	1,050
	10/01/2018		27.0	0.825	1.93	- -	- -	47.0	720
	10/24/2019		--(1)	--(1)	4.67	- -	- -	--(1)	--(1)
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						
MW-23R	10/08/2020		191	1.26	3.37	- -	- -	89.2	754
	09/16/2021		176	1.01	3.85	- -	- -	100	793
	10/13/2022		145	1.26	- -	3.27	<0.0420	89.2	696
	10/05/2023		172	1.17	- -	3.66	<0.0420	87.9	737
	04/04/2024		174	1.16	- -	3.61	<0.0420	88.4	719
MW-24	08/24/2010		34.6	2.31	2.40	- -	- -	53.9	422
	02/28/2011		39.6	2.16	2.94	- -	- -	55.3	414
	07/14/2011		43.1	1.55	2.38	- -	- -	48.1	504
	02/01/2012		50.6	2.42	2.32	- -	- -	62.3	418
	07/30/2012		51.8	2.42	2.39	- -	- -	55.1	420
	07/30/2012	FD	55.5	2.34	2.34	- -	- -	58.8	446
	02/26/2013		46.6	2.39	2.05	- -	- -	68.6	442
	08/21/2013		56.5	2.77	2.04	- -	- -	55.6	426
	02/27/2014		37.3	2.28	2.11	- -	- -	51.3	396
	08/21/2014		29.2	2.76	2.39	- -	- -	44.0	368
	02/25/2015		24	2.7	2.8	- -	- -	42	360
	08/25/2015		25.5	2.75	2.95	- -	- -	43.2	494
	08/16/2016		26.0	2.78	2.83	- -	- -	42.9	407
	08/17/2017		40.5	2.96	2.86	- -	- -	45.2	388
	10/01/2018		35.8	2.65	3.80	- -	- -	35.3	397
	10/24/2019		34.8	2.93	3.69	- -	- -	41.7	344
	10/08/2020		21.4	2.68	4.94	- -	- -	36.9	417
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021						
MW-24R	09/16/2021		80.8	2.79	2.51	- -	- -	72.8	455
	10/13/2022		71.0	2.35	- -	2.60	<0.0420	75.5	457
	10/05/2023		53.9	2.41	- -	4.36	<0.0420	59.6	427
	04/04/2024		70.3	2.17	- -	2.65	<0.0420	88.5	434

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-25	08/23/2010		178	0.871	2.42	- -	- -	182	946
	02/28/2011		256	0.729	2.83	- -	- -	93.9	998
	07/18/2011		77.8	1.12	3.64	- -	- -	96.2	634
	02/01/2012		175	0.813	4.56	- -	- -	84.4	820
	07/26/2012		133	0.892	37.1	- -	- -	144	1,110
	02/26/2013		109	0.710	19.4	- -	- -	113	788
	08/22/2013		314	0.696	3.36	- -	- -	74.7	1,350
	08/22/2013	FD	310	0.684	3.42	- -	- -	74.3	1,350
	02/26/2014		293	0.476	2.98	- -	- -	69.3	1,100
	02/26/2014	FD	289	0.546	2.98	- -	- -	68.6	1,090
	08/19/2014		302	<0.500	3.06	- -	- -	79.5	1,230
	08/19/2014	FD	319	<0.500	2.76	- -	- -	83.5	1,200
	02/25/2015		38	0.73	3.1	- -	- -	69	870
	02/25/2015	FD	180	0.71	3.1	- -	- -	69	840
	08/25/2015		211	0.693	2.96	- -	- -	72.6	1,110
	08/25/2015	FD	207	0.631	2.9	- -	- -	71.1	1,140
	03/09/2016		345	0.618	2.65	- -	- -	68.5	1,140
	08/16/2016		292	0.637	1.44	- -	- -	73.9	976
	08/16/2016	FD	287	0.638	1.50	- -	- -	73.5	1,010
	02/07/2017		298	0.567	1.64	- -	- -	93.4	1,000
	08/16/2017		280	0.791	1.52	- -	- -	68.4	996
	08/16/2017	FD	287	0.600	1.57	- -	- -	71.2	1,050
	04/05/2018		82.6	0.568	2.16	- -	- -	76.4	1,380
	04/05/2018	FD	401	0.605	2.17	- -	- -	79.5	1,360
	10/01/2018		284	0.518	3.89	- -	- -	105	1,090
	10/01/2018	FD	288	0.508	3.86	- -	- -	110	1,180
	04/04/2019		224	0.509	3.84	- -	- -	103	1,040
	04/04/2019	FD	224	0.500	4.57	- -	- -	104	1,030
	10/24/2019		232	0.586	3.89	- -	- -	112	986
	10/24/2019	FD	223	0.572	3.91	- -	- -	107	1,010
	06/18/2020		368	0.467	3.96	- -	- -	188	1,460
	10/08/2020		390	0.383	2.83	- -	- -	129	1,440
	04/15/2021		361	0.405	3.80	- -	- -	119	1,320
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021						
MW-26	08/24/2010		217	0.484	2.88	- -	- -	98.5	958
	02/28/2011		202	0.517	3.86	- -	- -	125	940
	07/14/2011		184	<0.500	3.95	- -	- -	128	1,030
	02/01/2012		196	0.568	3.68	- -	- -	131	952
	07/26/2012		179	0.647	3.11	- -	- -	121	940
	02/26/2013		144	0.640	4.78	- -	- -	138	760
	08/22/2013		222	0.611	5.55	- -	- -	133	1,170
	02/26/2014		187	0.470	3.11	- -	- -	146	944
	08/21/2014		67.8	0.511	3.18	- -	- -	78.9	644
	02/25/2015		190	0.71	2.3	- -	- -	110	790
	08/25/2015		220	0.670	2.93	- -	- -	143	1,160
	08/17/2016		223	0.645	2.28	- -	- -	122	- -
	08/17/2017		301	0.162	4.06	- -	- -	92.1	- -
	10/01/2018		235	0.466	- -	- -	- -	126	1,020
	10/24/2019		244	0.722	4.11	- -	- -	132	- -
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020						
MW-26R	10/08/2020		238	0.530	10.0	- -	- -	131	- -
	09/16/2021		329	0.429	11.6	- -	- -	161	- -
	10/13/2022		255	0.543	- -	6.60	<0.0420	130	- -
	10/05/2023		209	0.448	- -	4.24	<0.0420	138	- -
	04/04/2024		245	0.673	- -	1.30	<0.0420	112	- -

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-27	08/18/2010		115	0.644	5.10	--	--	118	752
	02/25/2011		144	0.595	<0.500	--	--	78.5	746
	07/20/2011		150	0.510	1.69	--	--	73.2	812
	02/01/2012		164	0.691	2.43	--	--	99.8	676
	07/26/2012		164	0.680	2.95	--	--	65.3	754
	02/26/2013		199	0.647	2.77	--	--	70.7	756
	08/20/2013		315	0.562	7.12	--	--	75.5	1,180
	02/27/2014		298	0.415	8.00	--	--	89.3	1,150
	08/21/2014		256	0.540	4.99	--	--	85.1	1,100
	02/27/2015		170	1.0	3.8	--	--	96	790
	08/26/2015		139	2.27	2.94	--	--	95.2	690
	03/08/2016		--	--	--	--	--	--	--
	08/18/2016		--	--	--	--	--	--	--
	02/08/2017		--	--	--	--	--	--	--
	08/17/2017		--	--	--	--	--	--	--
	04/05/2018		--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--
	04/04/2019		--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--
	06/18/2020		--	--	--	--	--	--	--
	10/08/2020		--	--	--	--	--	--	--
	04/15/2021		--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--
	04/14/2022		--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--
	03/23/2023		--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--
	04/04/2024		REMOVED FROM MONITORING PROGRAM						
	10/17/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						
MW-28	08/24/2010		71.2	1.66	1.70	--	--	60.3	440
	08/28/2010		--	--	--	--	--	--	--
	02/23/2011		106	1.57	<0.500	--	--	67.4	540
	07/14/2011		106	1.28	2.40	--	--	67.8	732
	01/30/2012		80.6	1.68	2.53	--	--	81.1	572
	07/24/2012		74.9	1.79	2.33	--	--	81.6	500
	02/19/2013		65.5	1.61	2.57	--	--	88.4	468
	08/20/2013		70.4	1.77	2.42	--	--	77.4	480
	02/24/2014		71.7	1.30	2.60	--	--	74.2	480
	08/19/2014		70.0	1.65	2.31	--	--	78.2	512
	02/23/2015		70	1.6	2.8	--	--	72	500
	08/27/2015		142	3.07	3.08	--	--	143	549
	03/07/2016		73.1	1.62	3.31	--	--	70.8	--
	08/15/2016		73.2	1.37	3.08	--	--	70.6	612
	02/06/2017		79.1	1.63	3.92	--	--	98.4	--
	08/17/2017		66.3	1.82	4.02	--	--	97.5	524
	04/05/2018		63.1	1.74	4.11	--	--	99.7	--
	10/01/2018		63.6	1.76	3.91	--	--	92.2	490
	04/04/2019		75.3	1.76	3.69	--	--	80.1	--
	10/24/2019		87.8	2.04	3.40	--	--	79.9	519
	06/18/2020		103	2.11	3.45	--	--	76.8	--
	10/08/2020		152	1.81	3.41	--	--	98.8	664
	04/15/2021		119	1.91	4.06	--	--	84.5	--
	09/16/2021		141	1.86	4.12	--	--	79.2	639
	04/14/2022		133	1.94	3.66	--	--	85.4	--
	10/13/2022		--(1)	--(1)	--	--(1)	--(1)	--(1)	--(1)
	03/23/2023		--(1)	--(1)	--	--(1)	--(1)	--(1)	--
	10/05/2023		--(1)	--(1)	--	--(1)	--(1)	--(1)	--(1)
	04/04/2024		--(1)	--(1)	--	--(1)	--(1)	--(1)	--(1)
	10/03/2024		--(1)	--(1)	--	--(1)	--(1)	--(1)	--
	10/21/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-29	08/24/2010		456	0.753	2.18	- -	- -	167	726
	08/24/2010	FD	132	0.741	2.15	- -	- -	100	742
	02/28/2011		119	0.819	3.05	- -	- -	101	670
	07/14/2011		135	0.707	2.61	- -	- -	71.6	798
	01/30/2012		152	0.769	3.22	- -	- -	96.3	898
	07/24/2012		250	0.828	4.08	- -	- -	90.1	1,120
	02/26/2013		159	0.788	2.90	- -	- -	82.4	722
	08/20/2013		152	0.934	2.95	- -	- -	96.2	654
	02/27/2014		141	0.811	3.22	- -	- -	74.4	660
	02/27/2014	FD	141	0.819	3.37	- -	- -	74.3	690
	08/20/2014		177	0.809	3.44	- -	- -	72.9	826
	02/25/2015		250	0.95	5.6	- -	- -	90	1,000
	08/27/2015		247	0.573	6.77	- -	- -	81.8	1,220
	03/08/2016		- -	- -	- -	- -	- -	- -	- -
	08/17/2016		171	0.693	4.61	- -	- -	81.5	349
	02/09/2017		- -	- -	- -	- -	- -	- -	- -
	08/17/2017		201	0.723	4.76	- -	- -	86.4	920
	04/05/2018		- -	- -	- -	- -	- -	- -	- -
	10/01/2018		175	0.490	5.62	- -	- -	113	1,010
	04/04/2019		- -	- -	- -	- -	- -	- -	- -
	10/24/2019		264	0.674	5.33	- -	- -	87.7	1,000
	10/24/2019	FD	258	0.649	5.32	- -	- -	87.9	1,060
	06/18/2020		- -	- -	- -	- -	- -	- -	- -
	10/08/2020		150	0.748	6.90	- -	- -	96.1	705
	04/15/2021		- -	- -	- -	- -	- -	- -	- -
	09/16/2021		187	0.672	6.40	- -	- -	76.8	827
	04/14/2022		- -	- -	- -	- -	- -	- -	- -
	10/13/2022		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]
	03/23/2023		- -	- -	- -	- -	- -	- -	- -
	10/05/2023		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]
	10/03/2024		- -	- -	- -	- -	- -	- -	- -
	10/16/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024						
MW-30	06/21/2013		51.2	1.87	3.51	- -	- -	96.7	426
	08/20/2013		63.7	1.59	2.85	- -	- -	87.0	438
	02/27/2014		64.0	1.07	2.96	- -	- -	90.0	476
	08/22/2014		61.1	1.45	2.75	- -	- -	84.5	444
	02/25/2015		75	1.4	3.1	- -	- -	81	460
	08/28/2015		83.6	1.61	3.97	- -	- -	86.2	525
	03/08/2016		70.6	1.3	3.53	- -	- -	83	450
	03/08/2016	FD	70.4	1.3	3.54	- -	- -	83	464
	08/16/2016		71.6	1.29	3.24	- -	- -	87.5	534
	08/16/2016	FD	75.5	1.29	3.22	- -	- -	87.7	491
	02/09/2017		71.7	1.26	3.52	- -	- -	87.3	497
	08/16/2017		68.3	1.31	3.38	- -	- -	78.9	468
	08/16/2017	FD	68.4	1.05	3.50	- -	- -	82.2	479
	04/05/2018		70.8	1.19	3.35	- -	- -	77.2	474
	10/01/2018		76.7	1.11	3.52	- -	- -	81.2	517
	10/01/2018	FD	76.3	1.09	3.70	- -	- -	80.6	509
	04/04/2019		78.5	1.06	3.61	- -	- -	69.4	513
	10/24/2019		85.0	1.24	3.29	- -	- -	71.7	479
	10/24/2019	FD	86.0	1.23	3.18	- -	- -	72.6	501
	06/18/2020		91.7	1.20	3.31	- -	- -	71.2	520
	10/08/2020		94.3	1.05	3.29	- -	- -	77.3	496
	04/15/2021		93.2	0.960	3.68	- -	- -	62.9	501
	09/16/2021		95.4	0.990	3.57	- -	- -	62.7	539
	04/14/2022		110	0.951	4.03	- -	- -	60.8	536
	10/13/2022		107	0.981	- -	4.85	<0.0420	56.5	548
	03/23/2023		122	0.800	- -	7.10	<0.0420	53.1	624
	10/05/2023		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]
	10/03/2024		--[1]	--[1]	- -	--[1]	--[1]	--[1]	--[1]

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
MW-32	06/15/2017		- -	- -	- -	- -	- -	- -	- -
	06/15/2017	FD	- -	- -	- -	- -	- -	- -	- -
	08/17/2017		109	2.77	<0.0197	- -	- -	99.4	683
	04/05/2018		165	1.12	1.74	- -	- -	143	939
	10/01/2018		34.7	0.357 B	<0.0197	- -	- -	47.4	383
	10/01/2018	FD	34.9	0.360 B	<0.0197	- -	- -	47.7	451
	04/04/2019		159	0.478	1.10	- -	- -	146	940
	10/24/2019		90.5	0.453	7.15	- -	- -	173	745
	10/24/2019	FD	89.1	0.422	7.08	- -	- -	172	827
	06/18/2020		92.7	0.355	6.25	- -	- -	183	872
	10/08/2020		54.1	0.286	3.36	- -	- -	182	741
	10/08/2020	FD	50.6	0.278	3.13	- -	- -	190	760
	04/15/2021		61.8	0.292	1.71	- -	- -	132	692
	04/15/2021	FD	60.4	0.292	1.70	- -	- -	128	677
	09/16/2021		57.0	0.247	3.56	- -	- -	142	728
	09/16/2021	FD	57.4	0.245	3.57	- -	- -	150	740
	04/14/2022		42.5	0.274	12.5	- -	- -	170	813
	04/14/2022	FD	42.9	0.272	12.7	- -	- -	167	788
	10/13/2022		34.2	0.412	- -	12.1	0.0486 J	172	828
	10/13/2022	FD	34.5	0.395	- -	12.9	0.0901 JB	179	822
	03/23/2023		26.7	0.330	- -	10.3	0.118	150	803
	03/23/2023	FD	27.1	0.426	- -	9.78	0.0892 J	145	775
	10/05/2023		26.5	0.487	- -	3.87	0.234	78.7	552
	10/05/2023	FD	26.5	0.482	- -	3.84	0.241	78.6	548
	04/04/2024		98.1	0.153	- -	2.85	0.281	131	695
	04/04/2024	FD	102	0.294 B	- -	2.79	0.324	135	681
	10/03/2024		5.32	0.579	- -	<0.0884	<0.0794	29.0	286
	10/03/2024	FD	5.38	0.544	- -	<0.0884	<0.0794	29.0	314
MW-33	06/15/2017		- -	- -	- -	- -	- -	- -	- -
	08/17/2017		74.7	2.26	<0.0197	- -	- -	57.1	792
	04/05/2018		84.1	1.15	<0.0197	- -	- -	15.4	902
	10/01/2018		118	0.859	<0.0197	- -	- -	13.8	1,170
	04/04/2019		137	0.729	<0.0197	- -	- -	12.4	1,230
	10/24/2019		160	0.748	<0.0197	- -	- -	7.98	1,160
	06/18/2020		145	0.770	<0.0500	- -	- -	12.8	1,220
	10/08/2020		95.3	0.647	<0.0500	- -	- -	21.6	1,090
	10/08/2020	FD	96.3	0.644	<0.0500	- -	- -	21.3	1,060
	04/15/2021		78.7	0.635	<0.0500 [R]	- -	- -	9.75	1,090
	04/15/2021	FD	79.3	0.620	<0.0500 [R]	- -	- -	9.74	1,100
	09/16/2021		56.3	0.640	<0.0500	- -	- -	11.5	1,130
	09/16/2021	FD	56.3	0.639	<0.0500	- -	- -	11.7	1,130
	04/14/2022		91.8	0.715	<0.0500	- -	- -	8.21	1,220
	04/14/2022	FD	90.5	0.713	<0.0500	- -	- -	8.57	1,210
	10/13/2022		86.9	0.786	- -	0.0606 JB	0.0525 JB	7.78	1,220
	10/13/2022	FD	88.0	0.791	- -	0.0602 JB	0.0498 JB	8.10	1,160
	03/23/2023		82.6	0.690	- -	0.0687 JB	<0.0420	6.12	1,170
	03/23/2023	FD	83.0	0.708	- -	<0.0480	<0.0420	6.03	1,160
	10/05/2023		93.0	0.681	- -	0.127	<0.0420	6.45	1,180
	10/05/2023	FD	93.0	0.671	- -	0.125	<0.0420	6.44	1,210
	04/04/2024		120	0.421 B	- -	<0.0480 [R]	<0.0420 [R]	2.92 J	1,100
	04/04/2024	FD	119	0.703	- -	<0.0480 [R]	<0.0420 [R]	5.74	- -
	10/03/2024		102	0.593	- -	<0.0884	<0.0794	1.10 J	1,230

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
North Well	06/18/2009		140	0.933	2.72	- -	- -	80.6	664
	01/14/2010		143	0.793	2.90	- -	- -	74.2	638
	08/24/2010		127	0.932	1.81	- -	- -	80.4	594
	03/03/2011		137	0.932	2.76	- -	- -	75.2	804
	07/20/2011		124	0.803	2.07	- -	- -	76.5	628
	02/02/2012		149	0.977	2.54	- -	- -	82.1	656
	07/30/2012		121	0.986	2.63	- -	- -	72.7	528
	02/19/2013		105	1.02	2.54	- -	- -	83.3	496
	08/22/2014		57.3	0.462	2.73	- -	- -	37.6	532
	12/17/2014		110	0.91	- -	3.0	<0.10	69	- -
	03/09/2015		11	0.098 J	2.7	- -	- -	7.3	520
	05/19/2015		110	0.88	3.2	- -	- -	73	550
	08/28/2015		193	1.55	4.34	- -	- -	127	593
	12/17/2015		121	0.982	3.46	- -	- -	76.7	588
	03/10/2016		136	0.939	3.34	- -	- -	74.1	575
	05/25/2016		128	0.941	3.03	- -	- -	75.1	634
	08/18/2016		129	0.872	5.76	- -	- -	70.9	626
	12/08/2016		156	0.942	3.23	- -	- -	74.3	676
	02/07/2017		148	0.893	3.55	- -	- -	82.9	613
	05/31/2017		150	0.836	3.27	- -	- -	75.9	597
	08/17/2017		135	0.740	3.19	- -	- -	76.5	662
	12/14/2017		133	0.816	3.13	- -	- -	77.3	616
	02/23/2018		133	0.948	3.46	- -	- -	76.5	603
	04/05/2018		131	0.878	3.09	- -	- -	75.6	584
	07/31/2018		121	0.881	3.03	- -	- -	74.7	584
	10/01/2018		121	0.797	3.11	- -	- -	79.9	573
	01/23/2019		120	0.775	2.86	- -	- -	75.6	550
	04/04/2019		120	0.776	3.17	- -	- -	74.9	590
	07/11/2019		121	0.931	3.29	- -	- -	77.5	571
	10/24/2019		122	0.930	2.57	- -	- -	76.8	484
	01/15/2020		117	0.860	2.94	- -	- -	77.5	549
	06/18/2020		118	0.953	2.92	- -	- -	78.6	548
	08/19/2020		111	0.837	2.82	- -	- -	78.3	568
	10/08/2020		116	0.824	2.74	- -	- -	83.4	519
	01/28/2021		120	0.798	2.86	- -	- -	80.1	520
	04/15/2021		113	0.796	3.20	- -	- -	78.1	530
	07/15/2021		114	0.802	3.15	- -	- -	77.8	541
	09/16/2021		128	0.771	2.90	- -	- -	78.0	580
	01/20/2022		124	0.938	2.97	- -	- -	78.1	544
	04/14/2022		128	0.836	2.93	- -	- -	79.8	586
	07/14/2022		122	0.845	- -	2.82	0.0786 J	79.1	528
	10/13/2022		128	0.868	- -	2.87	0.0930 JB	76.3	573
	01/26/2023		98.3	0.939	- -	1.66	<0.0420	74.2	449
	03/23/2023		116	0.830	- -	2.76	<0.0420	76.4	549
	07/27/2023		111	0.923	- -	2.51	<0.0420	70.3	533
	10/05/2023		115	0.791	- -	2.74	<0.0420	75.2	527
	01/25/2024		114	0.877	- -	3.60	<0.0420	76.9	540
	04/04/2024		114	<0.0640	- -	2.99	<0.0420 [R]	<0.594	517
	07/18/2024		119	0.797	- -	2.65	<0.0420	77.9	530
	10/03/2024		115	0.880	- -	2.85	<0.0794	78.2	550
South Well	06/22/2009		497	0.665	3.02	- -	- -	106	1,450
	01/14/2010		498	0.686	3.27	- -	- -	113	1,520
	08/24/2010		477	0.651	2.18	- -	- -	101	1,760
	03/03/2011		549	0.647	3.24	- -	- -	122	1,840
	07/20/2011		420	0.687	2.48	- -	- -	103	1,600
	02/02/2012		368	0.756	3.02	- -	- -	89.0	1,210
	07/30/2012		135	1.01	2.53	- -	- -	73.3	582
	02/19/2013		359	0.743	2.88	- -	- -	99.2	1,170
	02/28/2014		352	0.575	0.660	- -	- -	99.2	1,210
	08/22/2014		435	0.720	3.00	- -	- -	100	1,480
	08/22/2014	FD	437	0.724	3.00	- -	- -	107	1,480
	12/17/2014		390	0.63	- -	3.2	<0.10	91	- -
	12/17/2014	FD	390	0.63	- -	3.2	<0.10	90	- -
	03/09/2015		340	0.82	2.7	- -	- -	99	1,100
	03/09/2015	FD	340	0.82	650	- -	- -	98	1,100
	05/19/2015		330	0.76	3.2	- -	- -	92	1,100

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
South Well	05/19/2015	FD	340	0.76	3.1	- -	- -	95	1,000
	08/28/2015		426	0.810	3.48	- -	- -	107	1,440
	08/28/2015	FD	382	0.734	3.50	- -	- -	95.9	1,320
	12/17/2015		400	0.751	3.35	- -	- -	115	1,400
	12/17/2015	FD	402	0.752	3.47	- -	- -	114	1,360
	03/10/2016		354	0.76	3.53	- -	- -	103	1,100
	05/25/2016		361	0.743	3.11	- -	- -	101	1,620
	05/25/2016	FD	377	0.741	3.11	- -	- -	102	1,440
	08/18/2016		381	0.692	3.18	- -	- -	98.2	1,420
	08/18/2016	FD	385	0.695	3.18	- -	- -	97.6	1,390
	12/08/2016		419	0.772	3.27	- -	- -	105	1,300
	12/08/2016	FD	425	0.777	3.27	- -	- -	106	1,310
	02/07/2017		379	0.712	3.41	- -	- -	115	1,110
	02/07/2017	FD	375	0.723	3.77	- -	- -	114	1,170
	05/31/2017		433	0.636	3.20	- -	- -	101	1,350
	05/31/2017	FD	426	0.619	3.16	- -	- -	101	1,330
	08/17/2017		406	0.579	2.96	- -	- -	97.7	1,260
	08/17/2017	FD	400	0.577	2.94	- -	- -	92.4	1,460
	12/14/2017		383	0.625	2.97	- -	- -	92.4	1,290
	12/14/2017	FD	405	0.625	3.03	- -	- -	94.4	1,410
	02/23/2018		429	0.746	3.28	- -	- -	103	1,410
	02/23/2018	FD	432	0.735	3.27	- -	- -	104	1,270
	04/05/2018		406	0.676	2.98	- -	- -	99.9	1,300
	07/31/2018		409	0.752	3.14	- -	- -	103	1,420
	07/31/2018	FD	396	0.685	3.20	- -	- -	97.5	1,230
	10/01/2018		368	0.625	3.00	- -	- -	97.0	1,360
	01/23/2019		396	0.601	2.67	- -	- -	90.1	1,100
	01/23/2019	FD	382	0.606	2.64	- -	- -	88.3	1,100
	04/04/2019		344	0.619	3.18	- -	- -	97.3	1,280
	07/11/2019		360	0.741	3.48	- -	- -	97.3	1,190
	10/24/2019		335	0.798	2.80	- -	- -	86.8	992
	01/15/2020		328	0.692	3.12	- -	- -	94.7	1,010
	06/18/2020		330	0.784	3.10	- -	- -	95.7	1,090
	08/19/2020		333	0.690	2.99	- -	- -	96.1	1,040
	08/19/2020	FD	341	0.684	2.99	- -	- -	95.8	1,070
	10/08/2020		309	0.711	2.93	- -	- -	92.5	1,010
	10/08/2020	FD	312	0.637	2.97	- -	- -	96.5	1,010
	01/28/2021		334	0.646	3.06	- -	- -	96.2	986
	01/28/2021	FD	349	0.650	3.05	- -	- -	96.7	1,040
	04/15/2021		302	0.659	3.36	- -	- -	91.6	948
	04/15/2021	FD	304	0.658	3.36	- -	- -	91.7	960
	07/15/2021		267	0.700	3.11	- -	- -	99.1	1,010
	07/15/2021	FD	266	0.677	3.04	- -	- -	95.3	1,020
	09/16/2021		315	0.637	3.32	- -	- -	94.8	1,050
	09/16/2021	FD	301	0.628	3.35	- -	- -	90.9	990
	01/20/2022		264	0.744	3.16	- -	- -	85.8	867
	01/20/2022	FD	277	0.724	2.63	- -	- -	86.3	860
	04/14/2022		318	0.695	3.05	- -	- -	91.2	960
	04/14/2022	FD	317	0.693	2.91	- -	- -	91.2	924
	07/14/2022		287	0.709	- -	3.01	0.167	90.6	964
	07/14/2022	FD	301	0.698	- -	2.94	0.178	87.6	924
	10/13/2022		291	0.682	- -	2.96	0.0443 JB	89.4	974
	10/13/2022	FD	287	0.680	- -	2.96	0.0610 JB	89.7	926
	01/26/2023		324	0.845	- -	3.11	<0.0420	87.2	990
	01/26/2023	FD	319	0.829	- -	3.09	<0.0420	87.3	1,000
	03/23/2023		344	0.687	- -	2.83	<0.0420	83.6	1,190
	03/23/2023	FD	293	0.649	- -	2.87	<0.0420	83.7	1,150
	07/27/2023		244	0.702	- -	2.84	<0.0420	79.6	878
	07/27/2023	FD	256	0.849	- -	2.85	<0.0420	79.6	988
	10/05/2023		292	0.696	- -	3.12	<0.0420	80.1	1,040
	10/05/2023	FD	296	0.666	- -	2.97	<0.0420	85.1	1,000
	01/25/2024		232	0.696	- -	3.72	<0.0420	83.1	812
	01/25/2024	FD	233	0.748	- -	3.71	<0.0420	83.0	808
	04/04/2024		348	0.758	- -	3.35	<0.0420 [R]	97.1	926
	04/04/2024	FD	342	0.494	- -	3.30	<0.0420 [R]	97.9	990
	07/18/2024		245	0.705	- -	2.87	<0.0420	87.0	823
	07/18/2024	FD	240	0.710	- -	2.84	<0.0420	86.4	974
	10/03/2024		328	0.746	- -	3.02	<0.0794	88.5	1,120
	10/03/2024	FD	329	0.830	- -	3.04	<0.0794	88.8	1,110

Table 3. Anions and TDS Concentrations in Groundwater

HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Chloride (mg/L)	Fluoride (mg/L)	Nitrate-Nitrite (as N) (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
New Mexico WQCC Groundwater Standards			250	1.6	10.0	10.0	1.0	600.0	1,000
East Well	06/18/2009		107	0.980	2.59	--	--	84.0	554
	01/14/2010		138	0.991	2.70	--	--	72.7	676
	08/25/2010		106	1.00	0.523	--	--	74.5	522
	03/03/2011		135	0.905	2.68	--	--	75.6	644
	07/20/2011		124	0.810	1.83	--	--	73.8	596
	02/02/2012		150	0.967	2.56	--	--	81.4	664
	07/30/2012		144	0.962	2.40	--	--	80.9	636
	08/27/2012		--	--	--	--	--	--	--
	09/26/2012		--	--	--	--	--	--	--
	10/22/2012		--	--	--	--	--	--	--
	12/27/2012		--	--	--	--	--	--	--
	02/28/2014		138	0.899	0.564	--	--	80.6	658
	08/22/2014		124	0.914	2.71	--	--	78.5	614
	12/17/2014		120	0.90	--	2.7	<0.10	73	--
	03/09/2015		120	1.1	2.6	--	--	81	570
	05/19/2015		120	0.90	2.8	--	--	78	560
	08/28/2015		206	1.75	3.00	--	--	145	603
	12/17/2015		114	1.03	3.01	--	--	80.9	621
	03/10/2016		112	1.01	3.01	--	--	78.9	562
	05/25/2016		114	1.01	2.70	--	--	80.0	608
	08/18/2016		104	0.915	3.12	--	--	74.4	555
	12/08/2016		104	1.02	2.88	--	--	79.9	582
	02/07/2017		112	0.975	3.26	--	--	88.7	498
	05/31/2017		110	0.926	2.91	--	--	81.5	532
	08/17/2017		109	0.812	3.02	--	--	83.0	547
	12/14/2017		108	0.883	2.88	--	--	83.3	560
	02/23/2018		110	1.04	3.06	--	--	82.7	564
	04/05/2018		110	0.968	2.81	--	--	81.3	543
	07/31/2018		110	1.03	2.93	--	--	84.8	578
	10/01/2018		109	0.871	2.92	--	--	88.2	583
	01/23/2019		103	0.861	2.66	--	--	80.8	525
	04/04/2019		110	0.877	2.93	--	--	81.8	560
	07/11/2019		112	1.02	3.09	--	--	84.7	557
	10/24/2019		111	1.04	2.71	--	--	79.2	547
	01/15/2020		114	0.967	2.84	--	--	83.5	549
	06/18/2020		124	1.04	2.84	--	--	85.3	568
	08/19/2020		119	0.928	2.79	--	--	86.1	592
	10/08/2020		123	0.864	2.75	--	--	91.1	570
	01/28/2021		130	0.866	2.82	--	--	89.0	565
	04/15/2021		115	0.869	3.12	--	--	86.2	551
	07/15/2021		112	0.906	3.08	--	--	86.7	563
	09/16/2021		116	0.880	2.90	--	--	86.9	558
	11/10/2021		--	--	--	--	--	--	--
	11/10/2021	FD	--	--	--	--	--	--	--
	01/20/2022		114	0.977	2.93	--	--	82.5	515
	04/14/2022		112	0.949	2.87	--	--	85.4	540
	07/14/2022		106	0.943	--	2.74	0.0722 J	82.2	493
	10/13/2022		107	1.04	--	2.89	0.0803 JB	84.9	477
	01/26/2023		102	1.09	--	2.95	<0.0420	81.8	502
	03/23/2023		98.0	0.956	--	2.66	<0.0420	79.3	511
	07/27/2023		93.3	1.05	--	2.45	<0.0420	75.7	503
	10/05/2023		96.4	0.898	--	2.66	<0.0420	80.3	500
	01/25/2024		96.0	0.868	--	3.47	<0.0420	80.4	499
	04/04/2024		78.6	0.588	--	2.76	<0.0420 [R]	86.6	426
	07/18/2024		94.8	0.801	--	2.51	<0.0420	83.2	475
	10/03/2024		90.2	1.07	--	2.74	<0.0794	83.4	491

Notes:

Shading indicates detected result exceeded the New Mexico Water Quality Control Commission (WQCC) Groundwater Standard

N/A = Not Applicable, no New Mexico WQCC Groundwater Standard established for constituent

mg/L = milligrams per liter

FD = Field Duplicate

< = Not reported above laboratory reporting limit

-- = Not Analyzed

(1)= Not analyzed due to insufficient water volume

(2)= Not analyzed due to refinery operations (inaccessible)

J = analyte was detected below the laboratory reporting limit (June 2009 to December 2014) or the method quantitation limit (February 2015 to April 2021), or reported detection limit (July 2021, to October 2024), reported value is estimated

B = same analyte was detected in the associated laboratory blank or equipment blank; sample concentration is within 5 times the blank concentration

[R] analyte not usable for project objectives according to the United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Inorganic Superfund Methods* (USEPA, November 2020)

June 2009 to August 2014 analyses completed by ALS Laboratory Group, Houston, Texas

December 2014 analyses completed by Hall Environmental Analysis Laboratory in Albuquerque, New Mexico

February 2015 to present analyses completed by Pace Analytical National Center for Testing & Innovation (formerly ESC Lab Sciences) in Mount Juliet, Tennessee

Analytical data from 2009 to 2011 were provided by a previous consultant and could not be confirmed against the original data packages

Received by OCD: 4/15/2025 7:55:48 AM

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-1	06/19/2009		<0.0100	0.00914	0.147	0.175	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.974	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0124
	01/19/2010		0.0202	0.00634	0.164	0.236	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	2.72	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00615	0.00989
	08/18/2010		<0.0100	0.00841	0.117	0.182	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	1.62	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00538
	03/01/2011		<0.0100	0.00821	0.0984	0.189	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	1.62	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00689
	07/20/2011		<0.0100	0.00808	0.0903	0.168	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.485	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00832
	02/02/2012		<0.0100	0.00782	0.0843	0.164	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.780	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00766
	07/27/2012		0.0249	0.00870	0.0917	0.193	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	1.05	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00759
	02/27/2013		<0.0100	0.00857	0.0974	0.184	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.662	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0107
	08/21/2013		0.0158	0.00589	0.102	0.187	<0.00200	0.0160	<0.00500	<0.00500	<0.200	<0.00500	1.32	<0.000200	<0.00500	0.0164	<0.00500	<0.00500	<0.00500	0.00641
	02/27/2014		<0.0100	0.00775	0.111	0.169	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.690	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00874
	08/21/2014		0.0135	0.0102	0.138	0.109	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0172	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0242
	02/25/2015		<0.035	0.012	0.13	0.18 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	0.00048 J	<0.0012	<0.000049	0.0025 J	<0.0049	<0.0074	<0.0028	0.0022 J	0.0067 J
	08/27/2015		<0.0350	0.0120	0.122	0.170	<0.000160	<0.000540	<0.000260	<0.000520	<0.0141	<0.000240	0.00191 J	<0.0000490	0.00236 J	<0.000350	0.00268	<0.000310	0.00187 J	<0.00256
	03/09/2016		0.00841 JB	0.00292	0.121	0.155	<0.000160	0.0276	<0.000260	0.00141 JB	<0.0150	<0.000240	0.00102 JB	<0.0000490	0.00170 JB	0.000910 JB	0.00150 J	<0.000310	0.00246 J	0.00436 JB
	08/17/2016		0.00284 JB	0.0117	0.138	0.189	<0.000160	0.00112 JB	<0.000260	0.000802 JB	0.0529 JB	<0.000240	0.00295 JB	<0.0000490	0.00260 J	<0.000350	0.00278	<0.000310	0.00261 J	0.00377 J
	02/07/2017		<0.0258	0.00618 J	0.163	0.190	<0.000800	<0.00270	<0.00130	<0.00260	<0.0750	<0.00120	0.0124 J	<0.0000490	0.00549 J	0.0137	0.00237	<0.00155	0.00276 J	0.0160 J
	08/17/2017		0.0110 JB	0.00809	0.146	0.157	<0.000160	<0.000540	<0.000260	<0.000520	<0.0150	<0.000240	0.00371 J	0.000258	0.00229 J	0.0237	0.00228	<0.000310	0.00230 J	0.00494 J
	04/05/2018		<0.00515	0.00762	0.152	0.176 J	<0.000160	<0.000540	<0.000260	0.000883 JB	<0.0150	<0.000240	0.00128 JB	<0.0000490	0.00252 JB	<0.000350	0.00250 B	<0.000310	0.00179 JB	0.0110 J
	10/01/2018		0.0143 JB	0.00687	0.141	0.143 J	<0.000160	<0.000540	<0.000260	<0.000520	<0.0150	<0.000240	0.000642 JB	<0.0000490	0.00242 J	<0.000350	0.00255	<0.000310	0.00163 J	0.00331 JB
	04/04/2019		<0.00515	0.00585	0.155	0.160 J	<0.000160	<0.000540	<0.000260	0.000902 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00282 J	<0.000350	0.00246	<0.000310	0.00159 J	0.00554 J
	10/24/2019		<0.00515	0.00605	0.137	0.152 J	<0.000160	<0.000540	<0.000260	<0.000520	<0.0150	<0.000240	<0.000250	0.0000684 JB	0.00331 J	<0.000350	0.00291	<0.000310	0.00163 J	0.00451 J
	06/18/2020		<0.0554	0.00564	0.152	0.168 J	<0.000478	<0.00149	<0.000477	0.00362 J	<0.0489	<0.00249	<0.00132	<0.000100	0.00285 J	<0.000952	0.00255	<0.000513	<0.00754	<0.00996
	06/18/2020	FD	<0.0554	0.00543	0.153	0.156 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00262 J	<0.000952	0.00204	<0.000513	<0.00754	<0.00996
	10/08/2020		<0.0554	0.00570	0.165	0.161 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.00241 J	<0.000100	0.00322 J	0.00120 J	0.00232	<0.000513	<0.00754	<0.00996
	04/15/2021		<0.0185	0.00542	0.151	0.166 J	<0.000150	0.00157 J	<0.0000596	0.00216 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00318 J	<0.000816	0.00213	<0.0000700	0.00173 J	0.00613 JB
	09/16/2021		<0.0185	0.00520	0.151	0.168 J	<0.000150	<0.00124	0.0000677 J	<0.00151	<0.0281	<0.000849	0.00101 J	<0.000100	0.00272 J	<0.000816	0.00210	<0.0000700	0.00175 J	0.00603 J
	04/14/2022		<0.0185	0.00543	0.145	0.166 J	<0.000150	<0.00124	0.0000640 J	0.00187 J	<0.0281	<0.000849	0.00117 J	<0.000100	0.00312 J	<0.000816	0.00220	<0.0000700	0.00167 J	0.0122 J
	10/13/2022		0.0273 JB	0.00629	0.141	0.181 J	<0.000150	<0.00124	<0.0000596	<0.00151	<0.0281	<0.000849	0.000902 J	<0.000100	0.00245 J	<0.000816	0.00180 J	<0.0000700	0.00173 J	0.0135 J
	03/23/2023		<0.0185	0.00615	0.163	0.167 J	<0.000150	<0.00124	<0.0000596	0.00436 J	<0.0281	<0.000849	0.00258 J	<0.000100	0.00230 J	<0.000816	0.00188 J	<0.0000700	0.00196 J	0.00442 J
	10/05/2023		<0.0185	0.00567	0.175	0.179 J	<0.000150	0.00134 J	<0.0000596	0.00189 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00205 J	<0.000816	0.00186 J	<0.0000700	0.00206 J	<0.00302
	04/04/2024		<0.0185	0.00620	0.184	0.178 J	<0.000150	<0.00124	<0.0000596	<0.00151	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00216 J	<0.000816	0.00186 J	<0.0000700	0.00211 J	0.00485 J
MW-2	06/22/2009		0.0657	0.0386	0.0803	0.190	<0.00200	<0.00500	<0.00500	0.00621	<0.200	<0.00500	0.00583	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.110
	01/19/2010		<0.0100	<0.00500	0.00500	0.191	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00538	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0166
	08/16/2010		0.1367	<0.00500	0.193	0.155	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0204
	03/03/2011		<0.0100	<0.00500	0.176	0.171	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0117
	07/14/2011		<0.0100	<0.00500	0.160	0.192	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0230
	01/30/2012		<0.0100	<0.00500	0.130	0.164	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0255
	07/24/2012		<0.0100	<0.00500	0.140	0.233	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0191
	02/19/2013		0.0102	<0.00500	0.141	0.197	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0436
	08/20/2013		0.0346	<0.00500	0.118	0.216	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00721
	02/25/2014		0.0133	<0.00500	0.125	0.203	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0130
	08/21/2014		0.0143	<0.00500	0.112	0.147	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0214
	02/24/2015		<0.035	0.0037	0.090	0.21	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0034 J	<0.0049	<0.0074	<0.0028	0.0026 J	<0.0059
	08/28/2015		<0.0350	0.00355	0.111	0.213	<0.000160	0.000625 J	<0.000260	0.000548 J	<0.0141	<0.000240	0.000533 J	<0.0000490	0.00254 J	0.00115 J	0.00147 J	<0.000310	0.00340 J	0.00382 J
	03/07/2016		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/18/2016		0.00451 JB	0.00304	0.105	0.235	<0.000160	0.000981 JB	<0.000260	0.000952 JB	<0.0150	<0.000240	0.000769 JB	0.0000534 JB	0.00282 J	0.00129 JB	0.00166 J	<0.000310	0.00297 J	0.00316 JB
	02/07/2017		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/16/2017		0.0175 JB	0.00351	0.100	0.180	<0.000160	0.00333	<0.000260	0.00159 J	<0.0150	<0.000240	0.000347 J	0.0000703 J	0.00288 J	0.00713	0.00161 J	<0.000310	0.00268 J	0.0179 J
	04/05/2018		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/01/2018		0.0168 JB	0.00357	0.100	0.183 J	<0.000160	0.00201 B	<0.000260	0.00136 JB	<0.0150	<0.000240	0.000750 JB	<0.0000490	0.00278 J	0.00641	0.00116 J	<0.000310	0.00317 J	0.0316 B
	04/04/2019		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/24/2019		<0.00515	0.00361	0.108	0.189 J	<0.000160	0.000871 JB	<0.000260	0.00277 JB	<0.0150	0.000263 J	<0.000250	0.0000719 JB	0.00268 J	0.00412	0.00172 JB	<0.000310	0.00346 J	0.0420
	06/18/2020		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/08/2020		<0.0554	0.00362	0.0734	0.196 J	<0.000478	<0.00149	<0.000477	0.00407 J	<0.0489	<0.00249	<0.00132	<0.000100	0.00288 J	0.00433	0.00173 J	<0.000513	<0.00754	0.0439
	04/15/2021		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	09/16/2021		<0.0185	0.00410	0.0717	0.190 J	<0.000150	0.00131 J	0.0000770 J	0.00496 JB	<0.0281	<0.000849	<0.000704	<0.000100	0.00342 J	0.000979 J	0.00166 J	<0.0000700	0.00298 J	0.0391
	04/14/2022		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/13/2022		<0.0185	0.00423	0.0894	0.203	<0.000150	0.00177 J	0.0000687 J	0.00522	<0.0281	<0.000849	<0.000704	<0.000100	0.00323 J	0.00173 J	0.00162 J	<0.0000700	0.00271 J	0.0464
	03/23/2023		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/05/2023		<0.0185	0.00357	0.109	0.211	<0.000150	0.00135 J	<0.0000596	0.00774	<0.0281	<0.000849	<0.000704	<0.000100	0.00243 J	0.00112 J	0.00224	<0.0000700	0.00262 J	0.0371
	04/04/2024		<0.0185	0.00358	0.107	0.201	<0.000150	<0.00124	<0.0000596	0.00735	<0.0281	<0.000849	0.000734 J	<0.000100 [R]	0.00251 J	0.000838 J	0.00155 J	<0.0000700	0.00236 J	0.0604

Released to Imaging: 5/2/2025 9:53:52 AM

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-3	06/16/2009		0.308	0.00815	0.115	0.160	<0.00200	0.00709	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.0151	<0.00500	<0.00500	<0.00500	- -	<0.0100
	01/14/2010		0.144	0.00703	0.119	0.148	<0.00200	0.00977	<0.00500	0.121	<0.200	<0.00500	0.00597	<0.000200	0.0200	0.00842	<0.00500	<0.00500	0.000625	0.0195
	01/14/2010	FD	0.142	0.00798	0.125	0.167	<0.00200	0.0105	<0.00500	0.148	<0.200	<0.00500	0.00699	<0.000200	0.0216	0.00960	<0.00500	<0.00500	0.000721	0.0230
	08/19/2010		0.0767	0.00935	0.127	0.151	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00790	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/24/2011		<0.0100	0.00892	0.124	0.178	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0524
	07/15/2011		<0.0100	0.0125	0.113	0.202	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00510	<0.00500	<0.00500	<0.00500	<0.00500	0.0156
	01/30/2012		<0.0100	0.0117	0.0831	0.168	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00621	<0.00500	<0.00500	<0.00500	<0.00500	0.00886
	07/25/2012		<0.0100	0.0152	0.0773	0.209	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00673
	02/27/2013		<0.0100	0.0156	0.101	0.186	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00546	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/22/2013		0.0185	0.0169	0.0782	0.178	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/26/2014		<0.0100	0.0179	0.0655	0.164	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00560	<0.00500	<0.00500	<0.00500	0.00527
	08/21/2014		0.0128	0.0183	0.0545	0.104	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/26/2015		<0.035	0.019	0.061	0.16 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.00094 J	<0.0049	<0.0074	<0.0028	0.00057 J	<0.0059
	02/26/2015	FD	<0.035	0.020	0.062	0.16 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0011 J	<0.0049	0.0085 J	<0.0028	0.00056 J	0.0088 J
	08/26/2015		<0.0350	0.0195	0.0529	0.166 J	<0.000160	0.000912 J	<0.000260	0.00101 J	<0.0141	<0.000240	0.000572 J	<0.0000490	<0.00160	0.000483 J	0.00269	<0.000310	0.000567 J	0.00296 J
	03/08/2016		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/18/2016		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	02/07/2017		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/16/2017		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	04/05/2018		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/01/2018		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	04/04/2019		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/24/2019		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	06/18/2020		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/08/2020		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	04/15/2021		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	09/16/2021		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	04/14/2022		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/13/2022		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	03/23/2023		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/05/2023		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	04/04/2024		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
MW-4	06/16/2009		0.180	<0.00500	0.174	0.160	<0.00200	0.00534	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0120
	01/13/2010		0.0345	<0.00500	0.0932	0.177	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00102	<0.00500
	08/19/2010		0.0607	<0.00500	0.0862	0.136	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/28/2011		0.0131	<0.00500	0.0951	0.163	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00533
	07/15/2011		0.144	<0.00500	0.141	0.172	<0.00200	0.00619	<0.00500	<0.00500	<0.200	<0.00500	0.0114	<0.000200	<0.00500	0.0103	<0.00500	<0.00500	<0.00500	0.0211
	01/30/2012		0.0119	<0.00500	0.0796	0.150	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0147
	07/24/2012		<0.0100	<0.00500	0.0883	0.199	<0.00200	<0.00500	<0.00500	<0.00500	<0.20	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.0050	0.0102
	02/21/2013		<0.0100	0.00525	0.0841	0.157	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0116
	08/20/2013		<0.0100	0.00500	0.0902	0.156	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00506
	02/25/2014		<0.0100	<0.00500	0.0897	0.148	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00801
	08/20/2014		0.603	0.00501	0.213	0.111	<0.00200	<0.00500	<0.00500	<0.00500	0.241	<0.00500	0.00595	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0221
	02/24/2015		<0.035	0.0046	0.090	0.15 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	0.00025 J	<0.0012	0.00011 J	0.0034 J	<0.0049	<0.0074	<0.0028	0.0016 J	<0.0059
	08/28/2015		<0.0350	0.00526	0.0930	0.157	<0.000160	<0.000540	<0.000260	<0.000520	<0.0141	<0.000240	0.00114 J	<0.0000490	0.00319 J	0.000482 J	0.00228	<0.000310	0.00168 J	0.00269 J
	08/15/2016		0.00568 JB	0.00564	0.0894	0.155	<0.000160	0.00117 JB	<0.000260	0.000614 JB	0.0640 JB	<0.000240	0.000588 JB	<0.0000490	0.00358 J	0.000488 JB	0.00272	<0.000310	0.00170 J	0.00298 J
	08/17/2017		0.0196 JB	0.00480	0.0871	0.139	<0.000160	0.000569 J	<0.000260	0.000818 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00313 J	0.00317 B	0.00220	<0.000310	0.00141 J	0.00637 J
	10/01/2018		0.0149 JB	0.00482	0.0965	0.135 J	<0.000160	<0.000540	<0.000260	<0.000520	<0.0150	<0.000240	0.000539 J	<0.0000490	0.00271 J	0.00139 J	0.00231	<0.000310	0.00139 J	0.00473 J
	10/24/2019		<0.00515	0.00478	0.107	0.145 J	<0.000160	0.00301	<0.000260	0.00323 JB	<0.0150	0.000333 J	<0.000250	0.0000637 JB	0.00302 J	0.00172 J	0.00272	<0.000310	0.00167 J	0.00736 J
	10/08/2020		<0.0554	0.00456	0.111	0.155 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100 [R]	0.00296 J	0.00226	0.00201	<0.000513	<0.00754	0.0309
	09/16/2021		0.163	0.00427	0.118	0.170 J	<0.000150	0.00167 J	<0.0000596	0.00195 JB	<0.0281	<0.000849	<0.000704	<0.000100	0.00255 J	<0.000816	0.00171 J	<0.0000700	0.00177 J	0.0334
	10/13/2022		<0.0185	0.00456	0.110	0.173 J	<0.000150	0.00523	<0.0000596	0.00191 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00283 J	0.00111 J	0.00198 J	<0.0000700	0.00173 J	0.0352
	10/05/2023		<0.0185	0.00438	0.111	0.177 J	<0.000150	0.0100	<0.0000596	0.00181 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00265 J	0.00202	0.00132 J	<0.0000700	0.00180 J	0.0134 J
	04/04/2024		<0.0185	0.00408	0.117	0.170 J	<0.000150	0.00735	0.000194 J	0.00191 J	<0.0281	<0.000849	0.00180 J	<0.000100 [R]	0.00247 J	0.000913 J	0.00193 J	<0.0000700	0.00198 J	0.00837 J

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-5	06/16/2009		0.796	0.0233	0.0639	0.116	<0.00200	<0.00500	<0.00500	<0.00500	0.399	<0.00500	0.00670	<0.000200	0.0103	<0.00500	<0.00500	<0.00500	- -	<0.0100
	01/18/2010		<0.0100	<0.00500	0.0966	0.135	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/20/2010		0.0814	<0.00500	0.0967	0.0986	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/28/2011		0.123	<0.00500	0.100	0.0854	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0142	<0.000200	<0.00500	0.0112	<0.00500	<0.00500	<0.00500	0.0368
	07/19/2011		<0.0100	<0.00500	0.0968	0.0871	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0309
	01/31/2012		<0.0100	<0.00500	0.0972	0.0557	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00948
	01/31/2012	FD	<0.0100	<0.00500	0.0947	0.0728	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0119
	07/25/2012		0.0205	<0.00500	0.0931	0.134	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0562
	02/21/2013		0.0487	<0.00500	0.104	0.0997	<0.00200	<0.00500	<0.00500	0.0434	<0.200	<0.00500	0.0158	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00582	0.0289
	08/20/2013		<0.0100	<0.00500	0.105	0.100	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00507	0.0208
	02/25/2014		<0.0100	<0.00500	0.116	0.0893	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0114
	08/19/2014		0.148	<0.00500	0.123	<0.0200	<0.00200	0.00744	<0.00500	<0.00500	<0.200	<0.00500	0.00532	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00535	0.00626
	02/24/2015		0.038 J	0.0029	0.12	0.091 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0045 J	<0.0049	<0.0074	<0.0028	0.0040 J	0.0089 J
	08/24/2015		<0.0350	0.00410	0.121	0.0899 J	<0.000160	0.00111 J	<0.000260	0.00102 J	<0.0141	<0.000240	<0.000250	<0.0000490	0.00476 J	0.000814 J	<0.000380	<0.000310	0.00410 J	0.00539 J
	08/17/2016		0.0155 JB	0.00425	0.119	0.108	<0.000160	0.00217 B	<0.000260	0.00122 JB	0.0974 JB	<0.000240	0.000764 JB	<0.0000490	0.00876	0.000540 JB	0.000502 J	<0.000310	0.00553 J	0.00590 J
	08/16/2017		0.0209 JB	0.00382	0.118	0.0893	<0.000160	0.00128 J	<0.000260	0.00261 J	<0.0150	<0.000240	0.000398 J	<0.0000490	0.00616	0.000700 JB	0.000574 J	<0.000310	0.00432 J	0.00391 J
	10/01/2018		<0.00515	0.00412	0.125	0.0529 J	<0.000160	<0.000540	<0.000260	0.00128 JB	<0.0150	<0.000240	<0.000250	<0.0000490	0.00259 J	0.000937 J	0.000695 J	<0.000310	0.00262 J	<0.00256
	10/24/2019		<0.00515	0.00370	0.110	0.0517 J	<0.000160	<0.000540	<0.000260	0.00242 JB	<0.0150	<0.000240	<0.000250	0.0000584 JB	0.00260 J	0.00131 J	0.000554 JB	<0.000310	0.00152 J	0.00812 J
	10/08/2020		<0.0554	0.00325	0.118	0.0725 J	<0.000478	<0.00149	<0.000477	0.00460 J	<0.0489	<0.00249	<0.00132	0.000103 J	0.00254 J	0.00147 J	<0.000657	<0.000513	<0.00754	0.0166 J
	09/16/2021		<0.0185	0.00120 J	0.118	0.0740 J	<0.000150	<0.00124	0.000325 J	0.00311 JB	<0.0281	<0.000849	0.00886	<0.000100	0.00201 J	0.00154 J	0.000738 J	<0.0000700	0.00234 J	0.559
	10/13/2022		0.0271 J	0.00251	0.111	0.0743 J	<0.000150	<0.00124	<0.0000596	0.00655	0.0627 J	0.00171 J	0.00149 J	<0.000100	0.00179 J	0.00230	0.000426 J	<0.0000700	0.00239 J	0.0448
	10/05/2023		<0.0185	0.00233	0.106	0.0774 J	<0.000150	<0.00124	<0.0000596	0.00759	<0.0281	<0.000849	<0.000704	<0.000100	0.00179 J	0.00179 J	0.000583 J	<0.0000700	0.00199 J	0.0217 J
	04/04/2024		0.0193 J	0.00241	0.109	0.0773 J	<0.000150	<0.00124	<0.0000596	0.00885	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00169 J	<0.000816	0.000528 J	<0.0000700	0.00210 J	0.0236 J
MW-6	06/18/2009		<0.0100	0.0201	0.186	0.175	<0.00200	<0.00500	<0.00500	<0.00500	0.418	<0.00500	2.86	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.00996
	06/18/2009	FD	<0.0100	0.0221	0.200	0.192	<0.00200	<0.00500	<0.00500	<0.00500	0.219	<0.00500	2.76	<0.000200	<0.00500	0.00653	<0.00500	<0.00500	- -	0.0141
	02/02/2010		<0.0200	0.0250	0.499	0.234	<0.00200	<0.00500	<0.00500	<0.00500	2.08	<0.00500	4.51	<0.000200	<0.00500	0.00634	<0.00500	<0.00500	0.0113	<0.00500
	08/19/2010		0.0152	0.0456	0.376	0.244	<0.00200	<0.00500	<0.00500	<0.00500	1.86	<0.00500	6.61	<0.000200	<0.00500	0.00766	<0.00500	<0.00500	0.00785	<0.00500
	03/01/2011		<0.0100	0.0390	0.404	0.271	<0.00200	<0.00500	<0.00500	<0.00500	0.711	<0.00500	5.58	<0.000200	<0.00500	0.00896	<0.00500	<0.00500	0.00659	<0.00500
	07/20/2011		<0.0100	0.0336	0.220	0.223	<0.00200	0.00972	<0.00500	<0.00500	1.57	<0.00500	4.51	<0.000200	<0.00500	0.00576	<0.00500	<0.00500	<0.00500	0.0176
	02/02/2012		<0.0100	<0.00500	0.0827	0.190	<0.00200	<0.00500	<0.00500	<0.00500	0.488	<0.00500	1.25	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00599	0.00858
	07/24/2012		<0.0100	0.0128	0.143	0.265	<0.00200	<0.00500	<0.00500	<0.00500	1.28	<0.00500	2.53	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.0102	0.0194
	02/27/2013		<0.0100	0.0126	0.154	0.214	<0.00200	<0.00500	<0.00500	<0.00500	1.31	<0.00500	1.97	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00789	0.0123
	02/27/2013	FD	<0.0100	0.0124	0.158	0.216	<0.00200	<0.00500	<0.00500	<0.00500	1.33	<0.00500	2.02	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00833	0.0106
	08/21/2013		0.0244	<0.00500	0.129	0.198	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	1.68	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00606	<0.00500
	02/27/2014		<0.0100	0.0458	0.263	0.220	<0.00200	<0.00500	<0.00500	<0.00500	3.42	<0.00500	2.71	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00882	0.00622
	08/21/2014		0.0330	0.0185	0.363	0.167	<0.00200	<0.00500	<0.00500	<0.00500	0.268	<0.00500	3.06	<0.000200	<0.00500	0.00651	<0.00500	<0.00500	0.00744	0.0151
	02/25/2015		0.092 J	0.0061	0.19	0.19 J	<0.00070	<0.0014	<0.0023	<0.0053	0.015 J	0.00072 J	1.0	<0.000049	0.0026 J	<0.0049	<0.0074	<0.0028	0.0066 J	0.020 J
	08/27/2015		<0.0350	0.00539	0.152	0.181	<0.000160	<0.000540	<0.000260	0.000540 J	<0.0141	<0.000240	0.411	<0.0000490	0.00192 J	0.00134 J	0.00242	<0.000310	0.00463 J	0.00347 J
	03/10/2016		0.00858 JB	0.00529	0.149	0.174	<0.000160	<0.000540	<0.000260	0.000554 J	<0.0150	<0.000240	0.138 B	<0.0000490	0.00202 JB	0.000974 JB	0.00298	<0.000310	0.00573 J	0.00327 JB
	08/17/2016		0.00297 JB	0.00654	0.131	0.196	<0.000160	0.000782 JB	<0.000260	0.00132 JB	<0.0150	<0.000240	0.0144	<0.0000490	0.00215 J	0.00121 JB	0.00316	<0.000310	0.00726 J	0.00362 JB
	02/07/2017		<0.0258	0.00762 J	0.168	0.181	<0.000800	<0.00270	<0.00130	<0.00260	<0.0750	<0.00120	0.0323	<0.0000490	0.00260 J	0.00285 J	0.00409	<0.00155	0.00537 J	<0.0128
	08/16/2017		0.0121 JB	0.00653	0.179	0.156	<0.000160	<0.000540	<0.000260	0.00294 J	<0.0150	<0.000240	0.737	<0.0000490	0.00380 J	0.0163	0.00417	<0.000310	0.00406 J	0.0262
	04/05/2018		<0.00515	0.00668	0.161	0.173 J	<0.000160	<0.000540	<0.000260	0.00153 JB	<0.0150	<0.000240	0.0304	<0.0000490	0.00224 JB	0.00197 JB	0.00426	<0.000310	0.00345 J	0.0111 J
	10/01/2018		<0.00515	0.00716	0.148	0.154 J	<0.000160	0.000718 JB	<0.000260	0.000629 JB	<0.0150	<0.000240	0.0763	<0.0000490	0.00198 J	0.00116 J	0.00343	<0.000310	0.00340 J	0.0126 JB
	04/04/2019		<0.00515	0.00793	0.150	0.173 J	<0.000160	0.000797 J	<0.000260	0.00112 J	<0.0150	<0.000240	0.106	<0.0000490	0.00266 J	0.000612 JB	0.00395	<0.000310	0.00358 J	0.0123 J
	10/24/2019		<0.00515	0.00739	0.143	0.156 J	<0.000160	<0.000540	<0.000260	<0.000520	<0.0150	<0.000240	0.00807	0.0000653 JB	0.00276 J	0.000391 J	0.00394	<0.000310	0.00335 J	0.00752 J
	06/18/2020		<0.0554	0.00798	0.147	0.174 J	<0.000478	<0.00149	<0.000477	0.00258 J	<0.0489	<0.00249	0.0294	<0.000100	0.00272 J	0.00194 J	0.00310	<0.000513	<0.00754	0.0360
	06/18/2020	FD	<0.0554	0.00819	0.156	0.168 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.0289	<0.000100	0.00274 J	0.00231	0.00364	<0.000513	<0.00754	0.0336
	10/08/2020		<0.0554	0.00792	0.140	0.163 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.0276	0.000139 J	0.00295 J	0.00221	0.00315	<0.000513	<0.00754	0.0498
	04/15/2021		<0.0185	0.00780	0.151	0.173 J	<0.000150	<0.00124	<0.0000596	0.00261 J	<0.0281	<0.000849	0.00292 JB	<0.000100	0.00260 J	0.00101 J	0.00302	<0.0000700	0.00283 J	0.0402
	09/16/2021		<0.0185	0.00679	0.158	0.170 J	<0.000150	<0.00124	<0.0000596	0.00312 JB	<0.0281	<0.000849	0.00171 J	<0.000100	0.00240 J	0.00875	0.00295	<0.0000700	0.00425 J	0.0732
	04/14/2022		0.0331 JB	0.00682	0.178	0.180 J	<0.000150	<0.00124	0.0000813 J	0.00613	<0.0281	<0.000849	0.00132 J	<0.000100	0.00201 JB	0.00234 B	0.00328	<0.0000700	0.00435 J	0.0601
	10/13/2022		<0.0185	0.00628	0.150	0.178 J	<0.000150	<0.00124	<0.0000596	0.00326 J	<0.0281	<0.000849	0.00273 J	<0.000100	0.00210 J	0.00249	0.00281	<0.0000700	0.00307 J	0.105
	03/23/2023		<0.0185	0.00592	0.188	0.197 J	<0.000150	<0.00124	0.0000750 J	0.00500 J	<0.0281	<0.000849	0.00335 J	<0.000100	0.00171 J	0.00175 J	0.00298	<0.0000700	0.00343 J	0.0755
	10/05/2023		<0.0185	0.00529	0.188	0.188 J	<0.000150	0.00132 J	0.0000667 J	0.00792	<0.0281	<0.000849	0.00340 J	<0.000100	0.00197 J	0.00203	0.00242	<0.0000700	0.00310 J	0.0995
	04/04/2024		<0.0185	0.00631	0.187	0.171 J	<0.000150	<0.00124	0.0000931 J	0.0102	<0.0281	<0.000849	0.00209 J	<0.000100 [R]	0.00163 J	0.00221	0.00323	<0.0000700	0.00394 J	0.102
	10/03/2024		<0.0185	0.00475	0.206	0.223	<0.000150	<0.00124	0.000147 J	0.00844	<0.0281	<0.000849	0.00316 J	<0.0000700	0.00137 J	0.00256	0.00172 J	<0.0000700	0.00541 J	0.0912
MW-7	06/19/2009		<0.0100	0.00923	0.169	0.161	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.127	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0137
	02/02/2010		<0.0200	0.00869	0.199	0.169	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.125	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/18/2010		0.0223	0.00532	0.252	0.161	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.343	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	03/01/2011		<0.0100	0.00525	0.237	0.161	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.441	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00593
	07/20/2011		<0.0100	0.00669	0.246	0.164	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.617	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/02/2012		<0.0100	<0.00500	0.229	0.166	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.550	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00746
	07/27/2012		0.0727	<0.00500	0.234	0.196	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.642	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0114
	02/27/2013		<0.0100	<0.00500	0.227	0.178	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.300	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00844
	08/21/2013		<0.0100	<0.00500	0.220	0.178	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.365	<0.000200	<0.00500	<0.00500	0.00600	<0.00500	<0.00500	<0.00500
	02/27/2014		0.0159	<0.00500	0.208	0.168	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.781	<0.000200	<0.00500	<0.00500	0.00540	<0.00500	<0.00500	0.00818
	08/21/2014		<0.0100	<0.00500	0.207	0.110	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.470	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00566
	02/25/2015		<0.035	0.0055	0.24	0.18 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	0.00041 J	0.011	<0.000049	0.0011 J	<0.0049	<0.0074	<0.0028	0.0033 J	0.0083 J
	08/27/2015		<0.0350	0.00650	0.215	0.180	<0.000160	<0.000540	<0.000260	<0.000520	<0.0141	<0.000240	0.0184	<0.0000490	0.00175 J	<0.000350	0.00334	<0.000310	0.00236 J	<0.00256

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-8	06/18/2009		<0.0100	0.00501	0.181	0.228	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00919	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0458
	01/18/2010		<0.0100	0.00726	0.157	0.215	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00545
	08/18/2010		0.0377	0.00676	0.204	0.170	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00501	0.00760
	02/25/2011		<0.0100	<0.00500	0.106	0.175	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.281	<0.000200	<0.00500	0.00620	<0.00500	<0.00500	<0.00500	0.0316
	07/19/2011		<0.0100	<0.00500	0.229	0.278	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00928	0.0213
	02/01/2012		<0.0100	<0.00500	0.221	0.210	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00636	<0.000200	<0.00500	0.0119	<0.00500	<0.00500	0.00745	0.0339
	07/27/2012		<0.0100	<0.00500	0.160	0.294	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00523	<0.00500	<0.00500	0.00714	0.00888
	02/26/2013		<0.0100	0.00627	0.170	0.380	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00592	<0.000200	<0.00500	0.00999	<0.00500	<0.00500	0.00690	0.0188
	08/21/2013		<0.0100	<0.00500	0.119	0.266	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0208	<0.000200	<0.00500	0.0135	<0.00500	<0.00500	<0.00500	0.0107
	02/27/2014		0.747	<0.00500	0.233	0.284	<0.00200	0.0417	<0.00500	<0.00500	0.541	<0.00500	0.0240	<0.000200	<0.00500	0.0339	<0.00500	<0.00500	0.00916	0.0102
	08/21/2014		0.314	<0.00500	0.212	0.230	<0.00200	0.0404	<0.00500	<0.00500	0.274	<0.00500	0.0128	<0.000200	<0.00500	0.0258	<0.00500	<0.00500	0.00639	0.0181
	02/26/2015		0.11	0.0055	0.20	0.23	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.00083 J	<0.0049	<0.0074	<0.0028	0.0073 J	0.0059 J
	08/27/2015		<0.0350	0.00537	0.232	0.245	<0.000160	0.000562 J	0.000346 J	0.000544 J	<0.0141	<0.000240	0.00141 J	<0.0000490	0.000854 J	0.00204	0.00224	<0.000310	0.00891 J	0.00316 J
	03/08/2016		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/18/2016		0.0111 JB	0.00686	0.121	0.187	<0.000160	0.000982 JB	<0.000260	0.00175 JB	0.0152 J	0.000247 J	0.00123 JB	0.0000537 JB	0.00137 J	0.00243 B	0.00254	<0.000310	0.00245 J	0.00318 JB
	02/08/2017		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/17/2017		0.0129 JB	0.00790	0.126	0.151	<0.000160	<0.000540	<0.000260	0.00265 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00207 J	0.00679	0.00278	<0.000310	0.00347 J	0.0133 J
	04/05/2018		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/01/2018		0.00771 JB	0.00744	0.182	0.175 J	<0.000160	0.000757 JB	<0.000260	0.00160 JB	<0.0150	0.000279 JB	0.000389 JB	<0.0000490	0.00169 J	0.00867	0.00248	<0.000310	0.00486 J	0.0157 JB
	04/04/2019		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/24/2019		<0.00515	0.00700	0.190	0.204	<0.000160	<0.000540	<0.000260	0.00143 JB	<0.0150	<0.000240	<0.000250	0.0000632 JB	0.00108 J	0.00560	0.00214 B	<0.000310	0.00473 J	0.0210 J
	06/18/2020		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/08/2020		<0.0554	0.00715	0.167	0.228	<0.000478	0.00162 J	<0.000477	0.00397 J	<0.0489	<0.00249	0.00181 J	0.000110 J	0.00132 J	0.00400	0.00264	<0.000513	<0.00754	0.0383
	04/15/2021		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	09/16/2021		<0.0185	0.00722	0.203	0.217	<0.000150	0.00130 J	0.000116 J	0.00588 B	<0.0281	<0.000849	<0.000704	<0.000100	0.00137 J	0.00366	0.00185 J	<0.0000700	0.00680 J	0.0235 J
	04/14/2022		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/13/2022		0.0298 J	0.00698	0.298	0.232	<0.000150	0.00344	0.000135 J	0.00298 J	0.0377 J	<0.000849	0.00351 J	<0.000100	0.000965 J	0.0184	0.00126 J	<0.0000700	0.0147 J	0.0348
	03/23/2023		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/05/2023		<0.0185	0.00614	0.324	0.696	<0.000150	<0.00124	0.000549 J	0.00299 J	<0.0281	<0.000849	0.0124	<0.000100	0.000931 J	0.00420	<0.000300	<0.0000700	0.00919 J	0.00552 J
	04/04/2024		<0.0185	0.00676	0.381	0.873	<0.000150	<0.00124	0.00446	0.00389 J	<0.0281	<0.000849	0.0110	<0.000100 [R]	0.000956 J	0.0511	0.00276	<0.0000700	0.00807 J	0.00656 J
	10/03/2024		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
MW-9	06/16/2009		0.0468	0.0373	0.0911	0.122	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	<0.0100
	01/14/2010		0.0164	0.0351	0.0676	0.139	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.0006656	<0.00500
	08/19/2010		0.115	0.0358	0.0649	0.121	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00961	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	03/01/2011		0.0112	0.0382	0.0586	0.131	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00662
	07/15/2011		0.0371	0.0374	0.0647	0.166	<0.00200	0.00741	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00511	<0.00500	<0.00500	<0.00500	0.00932
	01/31/2012		<0.0100	0.0341	0.0653	0.108	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00529
	07/25/2012		0.0306	0.0292	0.0721	0.182	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00708	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00716
	02/27/2013		<0.0100	0.0171	0.0766	0.154	<0.00200	<0.00500	<0.00500	<0.00500	0.702	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0167
	08/22/2013		0.0467	0.0246	0.0736	0.153	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/26/2014		0.0161	0.0224	0.0737	0.152	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00588	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/21/2014		2.47	<0.00500	0.174	0.124	<0.00200	0.205	<0.00500	0.00644	2.22	<0.00500	0.0903	<0.000200	0.00662	0.111	<0.00500	<0.00500	<0.00500	0.0334
	02/25/2015		<0.035	0.0087	0.10	0.18 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0014 J	<0.0049	<0.0074	<0.0028	0.0031 J	<0.0059
	08/26/2015		<0.0350	0.00744	0.108	0.163 J	<0.000160	<0.000540	<0.000260	0.000626 J	<0.0141	<0.000240	<0.000250	<0.0000490	<0.00160	0.000566 J	0.00297	<0.000310	0.00285 J	0.00258 J
	08/17/2016		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/16/2017		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/01/2018		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/24/2019		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/08/2020		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	09/16/2021		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/13/2022		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/05/2023		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	04/04/2024		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-10	06/16/2009		<0.0200	<0.00500	0.113	0.138	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0127
	01/13/2010		<0.0100	<0.00500	0.0815	0.162	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.000911	0.0133
	08/19/2010		0.0556	<0.00500	0.0798	0.129	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00569
	03/03/2011		<0.0100	<0.00500	0.0772	0.159	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0133
	07/15/2011		0.0318	<0.00500	0.0855	0.177	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	01/31/2012		<0.0100	<0.00500	0.0865	0.109	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0252
	07/25/2012		<0.0100	0.00516	0.0882	0.186	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00861
	02/27/2013		<0.0100	0.00546	0.0972	0.164	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00633
	08/22/2013		<0.0100	<0.00500	0.104	0.168	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00671
	02/26/2014		<0.0100	<0.00500	0.106	0.147	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00979
	08/21/2014		<0.0100	<0.00500	0.134	0.0998	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00939	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0114
	02/26/2015		<0.035	0.0043	0.12	0.17 J	<0.00070	0.0016 J	<0.0023	<0.0053	<0.014	0.00030 J	<0.0012	<0.000049	0.0026 J	<0.0049	<0.0074	<0.0028	0.0019 J	0.0060 J
	08/26/2015		<0.0350	0.00466	0.0982	0.154	<0.000160	0.000709 J	<0.000260	0.000803 J	<0.0141	<0.000240	<0.000250	<0.0000490	0.00258 J	<0.000350	0.00283	<0.000310	0.00158 J	<0.00256
	08/17/2016		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	08/16/2017		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/01/2018		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/24/2019		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/08/2020		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	09/16/2021		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/13/2022		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	10/05/2023		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	04/04/2024		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
MW-11	06/18/2009		<0.0100	<0.00500	0.194	0.199	<0.00200	<0.00500	<0.00500	<0.00500	0.571	<0.00500	0.387	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0212
	01/18/2010		<0.0100	<0.00500	0.147	0.238	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0559	<0.000200	<0.00500	0.0126	<0.00500	<0.00500	0.00635	<0.00500
	08/18/2010		0.0125	<0.00500	0.471	0.255	<0.00200	<0.00500	<0.00500	<0.00500	0.347	<0.00500	0.571	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00718	<0.00500
	02/25/2011		<0.0100	<0.00500	0.241	0.244	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0101	<0.000200	<0.00500	0.00856	<0.00500	<0.00500	0.00878	0.0982
	07/19/2011		<0.0100	<0.00500	0.150	0.232	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0301	<0.000200	<0.00500	0.00846	<0.00500	<0.00500	0.00616	0.0265
	02/01/2012		<0.0100	0.0176	1.40	0.288	<0.00200	<0.00500	<0.00500	<0.00500	1.77	<0.00500	1.05	<0.000200	<0.00500	0.0169	<0.00500	<0.00500	0.0138	0.0189
	07/27/2012		<0.0100	0.0128	0.827	0.374	<0.00200	<0.00500	<0.00500	<0.00500	2.02	<0.00500	2.54	<0.000200	<0.00500	0.0351	<0.00500	<0.00500	0.0330	<0.00500
	02/27/2013		<0.0100	0.00802	0.561	0.349	<0.00200	<0.00500	0.00604	<0.00500	<0.200	<0.00500	5.24	<0.000200	0.00631	0.0861	<0.00500	<0.00500	0.0127	0.0226
	02/27/2013	FD	<0.0100	0.00787	0.574	0.349	<0.00200	<0.00500	0.00574	<0.00500	<0.200	<0.00500	5.47	<0.000200	0.00619	0.0811	<0.00500	<0.00500	0.0125	0.0199
	08/21/2013		<0.0100	<0.00500	0.195	0.283	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	2.62	<0.000200	<0.00500	0.00869	<0.00500	<0.00500	0.00723	0.00547
	08/21/2013	FD	<0.0100	<0.00500	0.198	0.290	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	2.92	<0.000200	<0.00500	0.00906	<0.00500	<0.00500	0.00714	0.00592
	02/28/2014		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	08/20/2014		0.0129	<0.00500	0.820	0.361	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	1.10	<0.000200	<0.00500	0.0217	<0.00500	<0.00500	0.0269	0.0104
	02/27/2015		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	08/28/2015		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	08/28/2015	FD	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	03/09/2016		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	03/09/2016	FD	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	08/15/2016		DRY WELL - PLUGGED AND ABANDONED DECEMBER 2016																	
MW-11R	02/08/2017		<0.0258	0.00165 J	0.208	0.194	<0.000800	<0.00270	0.00157 J	0.0118 J	<0.0750	<0.00120	0.141	<0.0000490	0.00372 J	0.0115	0.00115 J	<0.00155	0.00580 J	<0.0128
	02/08/2017	FD	<0.0258	0.00181 J	0.198	0.186	<0.000800	<0.00270	0.00147 J	0.0105 J	<0.0750	<0.00120	0.133	<0.0000490	0.00316 J	0.00979 J	0.00135 J	<0.00155	0.00551 J	<0.0128
	08/17/2017		0.00988 JB	0.00225	0.156	0.162	<0.000160	<0.000540	<0.000260	0.00242 J	<0.0150	<0.000240	0.00888	<0.0000490	0.00115 J	0.0275	0.00123 J	<0.000310	0.00349 J	0.0152 J
	04/05/2018		<0.00515	0.00250	0.153	0.192 J	<0.000160	<0.000540	<0.000260	0.0151	0.0561 J	0.000668 JB	0.00304 J	<0.0000490	0.00146 JB	0.0849	0.00219 B	<0.000310	0.00298 J	0.168
	10/01/2018		0.00726 JB	0.00258	0.162	0.160 J	<0.000160	<0.000540	<0.000260	0.0248	<0.0150	0.000797 JB	0.00123 JB	<0.0000490	0.00119 J	0.00546	0.00206	<0.000310	0.00299 J	0.111
	04/04/2019		<0.00515	0.00284	0.180	0.203	<0.000160	<0.000540	<0.000260	0.0386	<0.0150	0.000793 J	0.000546 J	<0.0000490	0.00143 J	0.00305	0.00182 J	<0.000310	0.00396 J	0.132
	10/24/2019		<0.00515	0.00249	0.187	0.218	<0.000160	0.00179 JB	<0.000260	0.0435	<0.0150	0.00131 J	<0.000250	0.0000675 JB	0.000953 J	0.00148 J	0.00289	<0.000310	0.00537 J	0.126
	06/18/2020		<0.0554	0.00239	0.187	0.294	<0.000478	<0.00149	<0.000477	0.0351	<0.0489	<0.00249	<0.00132	<0.000100	<0.000953	0.00455	0.00181 J	<0.000513	<0.00754	0.108
	10/08/2020		<0.0554	0.00250	0.186	0.286	<0.000478	<0.00149	<0.000477	0.0309	<0.0489	<0.00249	<0.00132	0.000104 J	<0.000953	0.00143 J	0.00205	<0.000513	<0.00754	0.0912
	04/15/2021		<0.0185	0.00247	0.201	0.303	<0.000150	<0.00124	0.000102 J	0.00452 J	<0.0281	<0.000849	0.00409 JB	<0.000100	0.00106 J	0.00193 J	0.000975 J	<0.0000700	0.00623 J	0.00533 JB
	09/16/2021		<0.0185	0.00254	0.198	0.296	<0.000150	<0.00124	0.000246 J	0.0326	<0.0281	0.00151 J	0.0343	<0.000100	0.00138 J	0.00174 J	0.00141 J	<0.0000700	0.00720 J	0.0562
	04/14/2022		<0.0185	0.00256	0.181	0.267	<0.000150	<0.00124	0.000135 J	0.0441	<0.0281	0.000957 J	0.0166	<0.000100	0.00114 JB	0.00303 B	0.00153 J	<0.0000700	0.00455 J	0.0660
	10/13/2022		<0.0185	0.00260	0.187	0.259	<0.000150	0.00153 J	0.000116 J	0.0380	<0.0281	0.00143 J	0.0265	<0.000100	0.00109 J	0.00276	0.00115 J	<0.0000700	0.00581 J	0.0893
	03/23/2023		--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)	--(2)
	10/05/2023		<0.0185	0.00292	0.218	0.273	<0.000150	<0.00124	0.00114 J	0.0126	<0.0281	0.000966 J	0.205	<0.000100	0.00118 J	0.00470	0.000546 J	<0.0000700	0.00718 J	0.0184 J
	04/04/2024		<0.0185	0.00363	0.318	0.267	<0.000150	<0.00124	0.00185 J	0.0189	<0.0281	0.00102 J	0.692	<0.000100 [R]	0.00106 J	0.00540	0.000910 J	<0.0000700	0.00718 J	0.0749
	10/03/2024		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
MW-12	06/16/2009		<0.0200	0.00516	0.0775	0.200	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	<0.0100
	01/18/2010		<0.0100	<0.00500	0.0755	0.235	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0219	<0.000200	<0.00500	0.0182	<0.00500	<0.00500	<0.00500	<0.00500
	08/20/2010		0.115	0.00550	0.0756	0.176	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/25/2011		<0.0100	0.00504	0.0760	0.198	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0185
	07/19/2011		<0.0100	<0.00500	0.0828	0.215	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00976	<0.000200	0.00575	0.00684	<0.00500	<0.00500	<0.00500	<0.00500
	--		DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013																	

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-12R	08/21/2013		<0.0100	<0.00500	0.0937	0.194	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0129	<0.000200	0.00647	0.0103	<0.00500	<0.00500	<0.00500	0.00956
	02/27/2014		<0.0100	<0.00500	0.0767	0.193	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00992	<0.00500	<0.00500	<0.00500	<0.00500
	08/20/2014		1.31	<0.00500	0.145	0.223	<0.00200	0.0516	<0.00500	<0.00500	0.867	<0.00500	0.0483	<0.000200	0.00554	0.0350	<0.00500	<0.00500	<0.00500	0.00962
	02/24/2015		0.037 J	0.0038	0.095	0.20	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0042 J	<0.0049	<0.0074	<0.0028	0.0019 J	0.0081 J
	08/25/2015		<0.0350	0.00413	0.102	0.233	<0.000160	<0.000540	<0.000260	<0.000520	<0.0141	<0.000240	0.00203 J	<0.0000490	0.00294 J	0.00191 J	0.000707 J	<0.000310	0.00270 J	0.00291 J
	03/09/2016		0.00398 J	0.0034	0.0972	0.214	<0.000160	0.000653 J	<0.000260	0.00331 J	<0.0150	<0.000240	0.00314 JB	<0.0000490	0.00348 J	0.00349 B	0.00121 J	<0.000310	0.00291 J	<0.00256
	08/18/2016		0.00468 JB	0.00294	0.111	0.274	<0.000160	0.00128 JB	<0.000260	0.00176 JB	<0.0150	0.000332 J	0.00250 J	0.0000689 JB	0.00267 J	0.00238 B	0.00151 J	<0.000310	0.00400 J	<0.00256
	02/08/2017		<0.0258	0.00348 J	0.133	0.273	<0.000800	<0.00270	<0.00130	<0.00260	<0.0750	<0.00120	0.0377	<0.0000490	0.00446 J	0.00769 J	0.00185 J	<0.00155	0.00430 J	0.0192 J
	08/16/2017		0.0102 JB	0.00270	0.118	0.229	<0.000160	0.000749 J	<0.000260	0.000969 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00285 J	0.00185 JB	0.00147 J	<0.000310	0.00422 J	0.00320 J
	04/05/2018		<0.00515	0.00275	0.128	0.281	<0.000160	<0.000540	<0.000260	0.00164 JB	<0.0150	<0.000240	0.000316 JB	<0.0000490	0.00206 JB	0.00187 JB	0.00169 JB	<0.000310	0.00464 J	0.00477 J
	04/05/2018	FD	<0.00515	0.00291	0.130	0.279	<0.000160	0.000595 JB	<0.000260	0.00170 JB	<0.0150	<0.000240	0.000435 JB	<0.0000490	0.00217 JB	0.00167 JB	0.00150 JB	<0.000310	0.00476 J	0.00779 J
	10/01/2018		<0.00515	0.00251	0.141	0.262	<0.000160	<0.000540	<0.000260	0.000867 JB	<0.0150	<0.000240	0.000932 JB	<0.0000490	0.00195 J	0.00181 J	0.00175 J	<0.000310	0.00458 J	0.00781 JB
	10/01/2018	FD	<0.00515	0.00292	0.154	0.249	<0.000160	0.000720 J	<0.000260	0.00150 J	<0.0150	0.000318 JB	0.000610 J	<0.0000490	0.00218 J	0.00205	0.00185 J	<0.000310	0.00502 J	0.00956 J
	04/04/2019		<0.00515	0.00250	0.167	0.295	<0.000160	0.000768 J	<0.000260	0.00330 J	<0.0150	<0.000240	0.000558 J	<0.0000490	0.00190 J	0.00530	0.00163 J	<0.000310	0.00582 J	0.0172 J
	04/04/2019	FD	<0.00515	0.00232	0.168	0.153 J	<0.000160	0.000775 JB	<0.000260	0.0100	<0.0150	<0.000240	0.000717 JB	<0.0000490	0.00168 J	0.00407	0.00206	<0.000310	0.00555 J	0.0148 J
	10/24/2019		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	06/18/2020		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020																	
MW-12R2	10/08/2020		<0.0554	0.00455	0.101	0.187 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.0112	0.000103 J	0.00701	0.00393	0.00223	<0.000513	<0.00754	0.0128 J
	04/15/2021		<0.0185	0.00425	0.118	0.197 J	<0.000150	<0.00124	<0.0000596	0.00196 J	<0.0281	<0.000849	0.00109 JB	<0.000100	0.00454 J	0.00430	0.00202	<0.0000700	0.00169 J	0.00906 JB
	09/16/2021		<0.0185	0.00406	0.110	0.193 J	<0.000150	<0.00124	<0.0000596	<0.00151	<0.0281	<0.000849	<0.000704	<0.000100	0.00408 J	0.00409	0.00212	<0.0000700	0.00181 J	0.0171 J
	04/14/2022		0.0222 JB	0.00406	0.118	0.189 J	<0.000150	0.00170 JB	0.0000920 J	0.00254 J	<0.0281	<0.000849	0.00106 J	<0.000100	0.00380 J	0.00614 B	0.00265	<0.0000700	0.00152 J	0.0314
	10/13/2022		<0.0185	0.00401	0.120	0.189 J	<0.000150	<0.00124	<0.0000596	0.00356 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00370 J	0.00355	0.00249	<0.0000700	0.00171 J	0.109
	03/23/2023		<0.0185	0.00413	0.121	0.193 J	<0.000150	<0.00124	0.0000647 J	0.00365 J	<0.0281	<0.000849	0.00108 J	<0.000100	0.00330 J	0.00152 J	0.00296	0.0000741 J	0.00246 J	0.0149 J
	10/05/2023		0.0207 J	0.00392	0.113	0.278	<0.000150	<0.00124	0.0000604 J	0.00567	<0.0281	<0.000849	<0.000704	<0.000100	0.00213 J	0.00601	0.00318	<0.0000700	0.00459 J	0.0409
	04/04/2024		<0.0185	0.00353	0.102	0.414	<0.000150	<0.00124	<0.0000596	0.00373 J	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00172 J	0.00596	0.00198 J	<0.0000700	0.00597 J	0.0210 J
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	06/16/2009		<0.0200	<0.00500	0.0692	0.253	<0.00200	<0.00500	0.0285	<0.00500	<0.200	<0.00500	0.0176	<0.000200	<0.00500	0.0126	<0.00500	<0.00500	--	0.0269
	01/18/2010		<0.0100	<0.00500	0.111	0.231	<0.00200	0.00728	0.00624	<0.00500	<0.200	<0.00500	0.0591	<0.000200	<0.00500	0.0110	<0.00500	<0.00500	0.0119	0.00769
	08/18/2010		0.0196	<0.00500	0.106	0.221	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.256	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.0128	0.00618
	02/25/2011		<0.0100	<0.00500	0.0692	0.242	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.225	<0.000200	<0.00500	0.0144	<0.00500	<0.00500	0.0170	0.0744
	07/19/2011		<0.0100	<0.00500	0.0800	0.249	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.302	<0.000200	<0.00500	0.0121	<0.00500	<0.00500	0.0188	0.00785
	02/01/2012		<0.0100	<0.00500	0.0752	0.228	<0.00200	<0.00500	0.00663	<0.00500	<0.200	<0.00500	0.341	<0.000200	<0.00500	0.0136	<0.00500	<0.00500	0.0128	0.0553
	07/26/2012		<0.0100	<0.00500	0.112	0.284	<0.00200	<0.00500	0.00644	<0.00500	<0.200	<0.00500	0.459	<0.000200	<0.00500	0.0108	<0.00500	<0.00500	0.0158	0.0361
	02/26/2013		0.0139	<0.00500	0.129	0.270	<0.00200	<0.00500	0.00657	<0.00500	<0.200	<0.00500	0.571	<0.000200	0.00568	0.0820	<0.00500	<0.00500	0.0123	0.0359
	08/21/2013		<0.0100	0.00590	0.159	0.265	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.705	<0.000200	<0.00500	0.0209	<0.00500	<0.00500	0.0153	0.00931
	02/27/2014		0.0110	<0.00500	0.191	0.258	<0.00200	0.0140	0.00541	<0.00500	0.321	<0.00500	1.01	<0.000200	<0.00500	0.0300	<0.00500	<0.00500	0.0173	0.0291
	08/19/2014		0.0737	<0.00500	0.207	0.287	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.940	<0.000200	<0.00500	0.00650	<0.00500	<0.00500	0.0151	0.0115
	02/27/2015		<0.035	0.0034	0.23	0.24	<0.00070	<0.0014	0.0047 J	<0.0053	<0.014	<0.00024	0.82	<0.000049	0.0010 J	<0.0049	<0.0074	<0.0028	0.014	0.019 J
	08/26/2015		<0.0350	0.00301	0.197	0.231	<0.000160	<0.000540	0.00163 J	0.00208 J	<0.0141	<0.000240	0.383	--	0.00143 J	0.00276	0.000710 J	<0.000310	0.0112	0.00592 J
	03/08/2016		0.00530 JB	0.00365	0.0976	0.196	<0.000160	<0.000540	<0.000260	0.00100 JB	0.0238 JB	0.000241 JB	0.00062 J	<0.0000490	0.00288 J	0.000721 JB	0.00144 J	<0.000310	0.00303 J	0.00418 JB
	08/17/2016		0.00748 JB	0.00398	0.149	0.223	<0.000160	0.00130 JB	0.00218	0.00287 JB	0.0220 JB	<0.000240	0.241	<0.0000490	0.00111 J	0.00409 B	0.000998 J	<0.000310	0.0119	0.0159 J
	02/08/2017		<0.0258	0.00409 J	0.150	0.217	<0.000800	<0.00270	0.00296 J	<0.00260	<0.0750	<0.00120	0.157	<0.0000490	0.00132 J	0.00726 J	0.000432 J	<0.00155	0.0123 J	0.0382 J
	08/17/2017		0.00785 JB	0.00687	0.142	0.187	<0.000160	0.00128 J	<0.000260	0.00517	<0.0150	<0.000240	0.0258	<0.0000490	0.00193 J	0.0231	0.000828 J	<0.000310	0.0141	0.240
	04/05/2018		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	09/26/2018		DRY WELL - PLUGGED AND ABANDONED SEPTEMBER 2018																	
MW-13R	10/01/2018		0.00533 JB	0.00260	0.194	0.169 J	<0.000160	0.00234 B	0.00460	0.0243	<0.0150	<0.000240	0.223	<0.0000490	0.0360	0.162	0.00161 J	<0.000310	0.00743 J	0.0775
	04/04/2019		<0.00515	0.00188 J	0.199	0.239	<0.000160	0.00802	0.00148 J	0.0162	<0.0150	<0.000240	0.0520	0.0000564 J	0.000861 J	0.0234	0.000961 J	<0.000310	0.0106	0.0335
	10/24/2019		<0.00515	0.00205	0.225	0.262	<0.000160	0.00255 B	0.000874 J	0.0104 B	<0.0150	<0.000240	0.0508	0.000152 JB	0.000608 J	0.0127	0.000645 JB	<0.000310	0.0102	0.0184 J
	06/18/2020		<0.0554	0.00238	0.127	0.274	<0.000478	<0.00149	0.000767 J	0.0110	<0.0489	<0.00249	0.0392	<0.000100	<0.000953	0.0103	0.00122 J	<0.000513	0.00887 J	0.0131 J
	06/18/2020	FD	<0.0554	0.00229	0.122	0.277	<0.000478	<0.00149	0.000716 J	0.00941	<0.0489	<0.00249	0.0374	<0.000100	<0.000953	0.00920	0.00104 J	<0.000513	0.00865 J	0.0128 J
	10/08/2020		<0.0554	0.00276	0.123	0.263	<0.000478	<0.00149	0.000901 J	0.0105	<0.0489	<0.00249	0.0349	0.000132 J	<0.000953	0.0101	0.00122 J	<0.000513	0.0106 J	0.0158 J
	10/08/2020	FD	<0.0554	0.00270	0.116	0.270	<0.000478	<0.00149	0.000872 J	0.00964	<0.0489	<0.00249	0.0327	0.000107 J	<0.000953	0.00888	0.000881 J	<0.000513	0.0101 J	0.0143 J
	04/15/2021		<0.0185	0.00258	0.121	0.253	<0.000150	<0.00124	0.000640 J	0.00821	<0.0281	<0.000849	0.0255	<0.000100	0.000796 J	0.00629	0.00102 J	<0.0000700	0.00962 J	0.0126 JB
	09/16/2021		<0.0185	0.00265	0.104	0.240	<0.000150	<0.00124	0.000438 J	0.00757 B	<0.0281	<0.000849	0.0155	<0.000100	0.000681 J	0.00401	0.000929 J	<0.0000700	0.0119 J	0.00987 J
	09/16/2021	FD	<0.0185	0.00271	0.109	0.244	<0.000150	<0.00124	0.000408 J	0.00795	<0.0281	<0.000849	0.0153	<0.000100	0.000737 JB	0.00429	0.00104 J	<0.0000700	0.0101 J	0.00984 J
	04/14/2022		0.0557 J	0.00275	0.125	0.230	<0.000150	0.00661	0.000277 J	0.00775	<0.0281	<0.000849	0.0145	<0.000100	0.000995 J	0.00528	0.00132 J	<0.0000700	0.0117 J	0.0232 J
	10/13/2022		<0.0185	0.00293	0.140	0.263	<0.000150	0.00183 J	0.000369 J	0.00854	<0.0281	<0.000849	0.0169	<0.000100	0.000618 J	0.00780	0.000660 J	<0.0000700	0.0120 J	0.0164 J
	10/13/2022	FD	<0.0185	0.00286	0.144	0.239	<0.000150	0.00175 J	0.000369 J	0.00847	<0.0281	<0.000849	0.0167	<0.000100	0.000653 J	0.00729	0.000656 J	<0.0000700	0.0115 J	0.0179 J
	03/23/2023		--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]
	10/05/2023		<0.0185	0.00274	0.149	0.312	<0.000150	0.00294	0.000479 J	0.00635	<0.0281	<0.000849	0.00900	<0.000100	0.000668 J	0.00854	0.000861 J	<0.0000700	0.0113 J	0.00442 J
	04/04/2024		<0.0185	0.00314	0.117	0.280	<0.000150	0.00332	0.000501 J	0.00802	<0.0281	<0.000849	0.00648	<0.000100 [R]	0.000637 J	0.00678	0.00121 J	<0.0000700	0.0113 J	0.0122 J
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Received by OCD: 4/15/2025 7:55:48 AM

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-14	06/16/2009		<0.0200	<0.00500	0.0770	0.132	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0199	<0.000200	0.0215	<0.00501	<0.00500	<0.00500	- -	0.0255
	01/18/2010		<0.0100	<0.00500	<0.00500	<0.020	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/20/2010		0.103	<0.00500	0.0774	0.131	<0.00200	0.0119	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00964	0.0480	<0.00500	<0.00500	0.00527	<0.00500
	02/25/2011		0.0101	<0.00500	0.0778	0.151	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0234	<0.000200	0.00903	0.0138	<0.00500	<0.00500	0.00541	0.0532
	07/18/2011		0.176	0.00615	0.110	0.156	<0.00200	12.5	0.122	0.218	54.9	<0.00500	1.45	<0.000200	0.0860	6.81	<0.00500	<0.00500	0.00544	0.0446
	01/31/2012		<0.0100	<0.00500	0.0802	0.129	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0276	<0.000200	0.00608	0.0186	<0.00500	<0.00500	<0.00500	0.0287
	07/25/2012		0.0116	<0.00500	0.0905	0.216	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0321	<0.000200	<0.00500	0.0240	<0.00500	<0.00500	<0.00500	0.0448
	02/21/2013		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	02/22/2013		<0.0100	<0.00500	0.0900	0.174	<0.00200	<0.00500	<0.00500	0.0705	<0.200	<0.00500	0.0349	<0.000200	0.0121	0.0106	<0.00500	<0.00500	0.00591	0.148
	08/22/2013		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	02/28/2014		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	08/20/2014		0.573	<0.00500	0.125	0.203	<0.00200	0.0247	<0.00500	<0.00500	0.314	<0.00500	0.00919	<0.000200	0.00533	0.0178	<0.00500	<0.00500	0.00502	0.0134
	02/27/2015		<0.035	0.0023	0.10	0.20 J	<0.00070	0.0026 J	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	--[1]	0.0040 J	<0.0049	<0.0074	<0.0028	0.0047 J	0.0070 J
	08/27/2015		<0.0350	0.00271	0.0998	0.188	<0.000160	0.00261	0.000326 J	0.00122 J	<0.0141	<0.000240	<0.000250	--[1]	0.00429 J	0.00190 J	0.00123 J	<0.000310	0.00485 J	0.00334 J
	08/19/2016		0.00385 JB	0.00244	0.124	0.216	<0.000160	0.00335 B	0.000476 J	0.00230 JB	<0.0150	<0.000240	0.00431 J	<0.0000490	0.00412 J	0.00253 B	0.00165 J	<0.000310	0.00554 J	0.00497 JB
	08/16/2017		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	<0.0000490	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	09/27/2018		DRY WELL - PLUGGED AND ABANDONED SEPTEMBER 2018																	
MW-14R	10/01/2018		0.0120 JB	0.00317	0.159	0.160 J	<0.000160	<0.000540	<0.000260	0.00200 JB	<0.0150	<0.000240	0.0107	<0.0000490	0.00700	0.00515	0.00178 J	<0.000310	0.00339 J	0.00479 JB
	10/24/2019		<0.00515	0.00248	0.332	0.181 J	<0.000160	<0.000540	<0.000260	<0.000520	<0.0150	<0.000240	<0.000250	0.0000617 JB	0.00242 J	<0.000350	0.00219 B	<0.000310	0.00509 J	<0.00256
	10/08/2020		<0.0554	0.00257	0.275	0.202	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	0.000115 J	0.00241 J	<0.000952	0.00226	<0.000513	<0.00754	<0.00996
	09/16/2021		<0.0185	0.00250	0.250	0.208	<0.000150	<0.00124	<0.0000596	<0.00151	<0.0281	<0.000849	<0.000704	<0.000100	0.00221 J	<0.000816	0.00178 J	<0.0000700	0.00653 J	0.00738 J
	10/13/2022		<0.0185	0.00260	0.232	0.209	<0.000150	<0.00124	<0.0000596	0.00161 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00227 J	<0.000816	0.00184 J	<0.0000700	0.00598 J	0.0119 J
	10/05/2023		<0.0185	0.00288	0.157	0.221	<0.000150	<0.00124	<0.0000596	<0.00151	<0.0281	<0.000849	<0.000704	<0.000100	0.00260 J	<0.000816	0.00162 J	<0.0000700	0.00488 J	<0.00302
	04/04/2024		<0.0185	0.00355	0.123	0.188 J	<0.000150	<0.00124	<0.0000596	0.00189 J	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00295 J	<0.000816	0.00168 J	<0.0000700	0.00459 J	<0.00302
MW-15	08/20/2010		0.0790	<0.00500	0.145	0.175	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0198
	02/24/2011		<0.0100	<0.00500	0.127	0.165	<0.00200	0.0102	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0385
	07/14/2011		<0.0100	<0.00500	0.173	0.201	<0.00200	0.0132	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00657	<0.00500	<0.00500	<0.00500	0.0122
	01/30/2012		<0.0100	<0.00500	0.180	0.178	<0.00200	0.00644	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00967
	07/24/2012		<0.0100	<0.00500	0.178	0.227	<0.00200	0.0110	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00636
	02/19/2013		0.0682	<0.00500	0.178	0.191	<0.00200	0.129	<0.00500	<0.00500	0.610	<0.00500	0.0198	<0.000200	<0.00500	0.0704	<0.00500	<0.00500	<0.00500	0.0160
	08/20/2013		<0.0100	<0.00500	0.232	0.194	<0.00200	0.00594	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00854
	08/20/2013	FD	<0.0100	<0.00500	0.232	0.188	<0.00200	0.00582	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00619
	02/24/2014		<0.0100	<0.00500	0.178	0.175	<0.00200	0.00910	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/24/2014	FD	<0.0100	<0.00500	0.178	0.174	<0.00200	0.00961	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/21/2014		0.0102	<0.00500	0.146	0.117	<0.00200	0.00513	<0.00500	<0.00500	<0.200	<0.00500	0.00509	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0149
	08/21/2014	FD	0.0136	<0.00500	0.153	0.119	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0213
	02/24/2015		0.052 J	0.0040	0.15	0.17 J	<0.00070	0.0034 J	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0024 J	<0.0049	<0.0074	<0.0028	0.0021 J	0.012 J
	08/27/2015		<0.0350	0.00424	0.146	0.167	<0.000160	0.00285	<0.000260	0.00109 J	<0.0141	0.000373 J	0.000492 J	<0.0000490	0.00249 J	0.000825 J	0.00232	<0.000310	0.00220 J	<0.00256
	08/27/2015	FD	<0.0350	0.00443	0.146	0.174	<0.000160	0.00272	<0.000260	<0.000520	0.0144 J	<0.000240	0.000276 J	<0.0000490	0.00254 J	0.000688 J	0.00253	<0.000310	0.00200 J	<0.00256
	03/07/2016		0.00537 JB	0.0042	0.14	0.156	<0.000160	0.00281	<0.000260	0.000956 J	<0.0150	0.000309 JB	0.000837 JB	<0.0000490	0.00240 J	0.00173 JB	0.00234	<0.000310	0.00248 J	0.00275 JB
	08/15/2016		0.00418 JB	0.00353	0.140	0.176	<0.000160	0.00128 JB	0.000281 J	0.00193 JB	<0.0150	<0.000240	0.00394 J	<0.0000490	0.00326 J	0.00597 B	0.00245	<0.000310	0.00275 J	0.00409 J
	08/15/2016	FD	0.00531 JB	0.00353	0.145	0.183	<0.000160	0.00130 JB	0.000293 J	0.000569 JB	0.0441 JB	<0.000240	0.00413 J	<0.0000490	0.00340 J	0.00598 B	0.00259	<0.000310	0.00281 J	0.00403 J
	02/06/2017		<0.0258	0.00342 J	0.160	0.198	<0.000800	<0.00270	<0.00130	<0.00260	<0.0750	<0.00120	0.00764 J	<0.0000490	0.00419 J	0.0145	0.00213	<0.00155	0.00275 J	0.0140 J
	08/16/2017		0.00788 JB	0.00362	0.161	0.161	<0.000160	0.00242	<0.000260	0.00189 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00183 J	0.00373 B	0.00191 J	<0.000310	0.00257 J	0.0104 J
	04/05/2018		<0.00515	0.00339	0.148	0.189 J	<0.000160	0.00201 B	<0.000260	0.00420 J	0.0281 J	0.000269 JB	0.00172 JB	<0.0000490	0.00433 J	0.00561	0.00170 JB	<0.000310	0.00290 J	0.0250 J
	10/01/2018		<0.00515	0.00329	0.162	0.157 J	<0.000160	0.00118 JB	<0.000260	0.00144 JB	<0.0150	<0.000240	0.00189 JB	<0.0000490	0.00136 J	0.00277	0.00215	<0.000310	0.00288 J	0.0199 JB
	04/04/2019		0.00581 JB	0.00294	0.189	0.180 J	<0.000160	0.00181 J	<0.000260	0.00800	<0.0150	0.000487 J	0.000601 J	<0.0000490	0.00170 J	0.00656	0.00134 J	<0.000310	0.00265 J	0.0714
	10/24/2019		<0.00515	0.00246	0.160	0.172 J	<0.000160	0.00321	<0.000260	0.00177 JB	<0.0150	<0.000240	0.00280 J	0.0000657 JB	0.00567	0.0322	0.00252	<0.000310	0.00273 J	0.128
	06/18/2020		<0.0554	0.00285	0.137	0.183 J	<0.000478	0.00504	<0.000477	0.00313 J	<0.0489	<0.00249	0.00176 J	<0.000100	0.00697	0.0396	0.00184 J	<0.000513	<0.00754	0.168
	10/08/2020		<0.0554	0.00315	0.132	0.183 J	<0.000478	0.00433	<0.000477	0.00340 J	<0.0489	<0.00249	0.00368 J	0.000103 J	0.00521	0.0259	0.00165 J	<0.000513	<0.00754	0.175
	04/15/2021		<0.0185	0.00217	0.120	0.180 J	<0.000150	0.00670	0.000593 J	0.0219	<0.0281	<0.000849	0.00472 JB	<0.000100	0.0102	1.29	0.00206	<0.0000700	0.00251 J	3.68
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021																	
MW-15R	09/16/2021		<0.0185	0.00391	0.154	0.190 J	<0.000150	0.00864	0.000137 J	0.00425 JB	<0.0281	<0.000849	0.00653	<0.000100	0.00864	0.00497	0.00244	<0.0000700	0.00252 J	0.0312
	04/14/2022		<0.0185	0.00258	0.178	0.197 J	<0.000150	0.0102	<0.0000596	0.00866	<0.0281	<0.000849	0.00210 JB	<0.000100	0.00175 J	0.00312	0.00233	<0.0000700	0.00237 J	0.0687
	10/13/2022		<0.0185	0.00269	0.148	0.170 J	<0.000150	0.0147	<0.0000596	0.00456 J	<0.0281	<0.000849	0.000723 J	<0.000100	0.00127 J	0.00184 J	0.00194 J	<0.0000700	0.00260 J	0.0469
	03/23/2023		<0.0185	0.00281	0.114	0.192 J	<0.000150	0.0214	<0.0000596	0.00488 J	<0.0281	<0.000849	0.00138 J	<0.000100	0.00169 J	<0.000816	0.00209	<0.0000700	0.00253 J	0.0474
	10/05/2023		<0.0185	0.00288	0.128	0.203	<0.000150	0.0215	<0.0000596	0.00437 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00182 J	0.00174 J	0.00174 J	<0.0000700	0.00215 J	0.0674
	04/04/2024		<0.0185	0.00340	0.108	0.187 J	<0.000150	0.0355	<0.0000596	0.00348 J	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00224 J	0.00143 J	0.00254	<0.0000700	0.00214 J	0.0310
	10/03/2024		<0.0185	0.00256	0.136	0.180 J	<0.000150	0.0135	0.000104 J	0.00864	<0.0281	<0.000849	0.00114 J	<0.0000700	0.00173 J	0.00650	0.00228	<0.0000700	0.00213 J	0.193

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Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-16	08/20/2010		0.0746	<0.00500	0.109	0.156	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00554	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0145
	02/24/2011		<0.0100	<0.00500	0.107	0.162	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00671	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0248
	07/15/2011		0.188	<0.00500	0.129	0.181	<0.00200	0.115	<0.00500	<0.00500	0.613	<0.00500	0.0164	<0.000200	<0.00500	0.0591	<0.00500	<0.00500	<0.00500	0.0176
	07/15/2011	FD	0.0374	<0.00500	0.118	0.185	<0.00200	0.0251	<0.00500	<0.00500	0.241	<0.00500	0.00820	<0.000200	<0.00500	0.0234	<0.00500	<0.00500	<0.00500	0.0166
	01/30/2012		<0.0100	<0.00500	0.0964	0.166	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00899
	07/24/2012		0.0102	<0.00500	0.0966	0.202	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0162	<0.000200	<0.00500	0.0112	<0.00500	<0.00500	<0.00500	0.0167
	02/20/2013		<0.0100	0.00547	0.0968	0.172	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00693
	08/20/2013		0.0260	<0.00500	0.105	0.192	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0219	<0.000200	<0.00500	0.0177	<0.00500	<0.00500	<0.00500	<0.00500
	02/25/2014		<0.0100	<0.00500	0.0938	0.172	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0225	<0.000200	0.00516	0.0295	<0.00500	<0.00500	<0.00500	0.00786
	08/19/2014		0.335	<0.00500	0.104	0.209	<0.00200	0.00751	<0.00500	<0.00500	<0.200	<0.00500	0.00544	<0.000200	<0.00500	0.00667	<0.00500	<0.00500	<0.00500	0.00897
	02/24/2015		0.042 J	0.0051	0.098	0.17 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	0.0042 J	<0.000049	0.0035 J	<0.0049	<0.0074	<0.0028	0.0016 J	0.014 J
	08/27/2015		<0.0350	0.00528	0.0936	0.176	<0.000160	<0.000540	<0.000260	0.000638 J	<0.0141	<0.000240	0.000312 J	<0.0000490	0.00293 J	<0.000350	0.00228	<0.000310	0.00156 J	0.00343 J
	08/15/2016		0.00512 JB	0.00434	0.0973	0.181	<0.000160	0.00122 JB	<0.000260	0.000659 JB	0.0571 JB	<0.000240	0.00916	<0.0000490	0.00631	0.0117	0.00246	<0.000310	0.00206 J	0.00454 J
	08/17/2017		0.0178 JB	0.00488	0.106	0.162	<0.000160	0.000796 J	<0.000260	0.00279 J	<0.0150	<0.000240	0.000295 J	<0.0000490	0.00256 J	0.00343 B	0.00257	<0.000310	0.00198 J	0.0285
	10/01/2018		<0.00515	0.00492	0.114	0.155 J	<0.000160	<0.000540	<0.000260	0.00200 JB	<0.0150	<0.000240	0.000783 JB	<0.0000490	0.00243 J	0.000934 J	0.00322	<0.000310	0.00228 J	0.00805 JB
	10/24/2019		<0.00515	0.00557	0.109	0.157 J	<0.000160	0.00107 JB	<0.000260	0.00290 JB	<0.0150	0.000400 J	0.00116 J	0.0000606 JB	0.00251 J	0.00120 J	0.00358	<0.000310	0.00226 J	0.0369
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020																	
MW-16R	10/08/2020		<0.0554	0.00601	0.0895	0.162 J	<0.000478	<0.00149	<0.000477	0.00410 J	<0.0489	<0.00249	0.00805	<0.000100 [R]	0.00398 J	<0.000952	0.00252	<0.000513	<0.00754	<0.00996
	09/16/2021		<0.0185	0.00459	0.105	0.167 J	<0.000150	<0.00124	<0.0000596	0.00299 JB	<0.0281	<0.000849	0.000862 J	<0.000100	0.00290 J	0.00190 J	0.00257	<0.0000700	0.00301 J	0.0297
	10/13/2022		0.0192 J	0.00478	0.0980	0.154 J	<0.000150	<0.00124	<0.0000596	0.00241 J	<0.0281	<0.000849	0.000881 J	<0.000100	0.00243 J	<0.000816	0.00256	<0.0000700	0.00247 J	0.00935 J
	10/05/2023		<0.0185	0.00535	0.0895	0.170 J	<0.000150	0.00169 J	<0.0000596	0.00475 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00276 J	0.00273	0.00237	<0.0000700	0.00172 J	0.0188 J
	04/04/2024		<0.0185	0.00572	0.0899	0.160 J	<0.000150	0.00144 J	<0.0000596	0.00869	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00326 J	0.00151 J	0.00196 J	<0.0000700	0.00155 J	0.0448
MW-17	08/20/2010		0.146	<0.00500	0.180	0.157	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0142
	02/24/2011		<0.0100	<0.00500	0.152	0.162	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0478
	07/18/2011		<0.0100	<0.00500	0.141	0.165	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0126
	--		DAMAGED WELL - PLUGGED AND ABANDONED JUNE 2013																	
MW-17R	08/22/2013		0.0302	<0.00500	0.154	0.188	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0819	<0.000200	0.00531	0.0189	<0.00500	<0.00500	<0.00500	<0.00500
	02/27/2014		0.254	<0.00500	0.121	0.193	<0.00200	0.0121	<0.00500	<0.00500	<0.200	<0.00500	0.0342	<0.000200	<0.00500	0.0273	<0.00500	<0.00500	<0.00500	<0.00500
	08/22/2014		0.0459	<0.00500	0.153	0.120	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0989	<0.000200	<0.00500	0.0378	<0.00500	<0.00500	<0.00500	0.0243
	02/26/2015		0.046 J	0.0028	0.12	- -	<0.00070	0.0022 J	<0.0023	<0.0053	<0.014	0.00030 J	<0.0012	<0.000049	0.0013 J	<0.0049	<0.0074	<0.0028	0.0030 J	0.023 J
	08/27/2015		<0.0350	0.00320	0.0972	0.171	<0.000160	0.000967 J	<0.000260	0.000632 J	0.0218 J	<0.000240	0.00123 J	<0.0000490	0.00163 J	0.000779 J	0.00203	<0.000310	0.00267 J	<0.00256
	03/08/2016		0.0150 JB	0.00259	0.0739	0.161	<0.000160	<0.000540	0.000315 J	0.000717 J	<0.0150	<0.000240	0.0544	<0.0000490	0.000749 J	0.00103 JB	0.00185 J	<0.000310	0.00666 J	0.00412 JB
	08/17/2016		0.00299 JB	0.00251	0.143	0.199	<0.000160	0.00110 JB	<0.000260	0.00145 JB	<0.0150	<0.000240	0.00281 J	<0.0000490	0.00140 J	0.00147 JB	0.00143 J	<0.000310	0.00285 J	<0.00256
	02/09/2017		<0.0258	0.00292 J	0.0993	0.183	<0.000800	<0.00270	<0.00130	0.00839 J	<0.0750	<0.00120	0.0450	<0.0000490	0.00415 J	0.0112	0.00227	<0.00155	0.00227 J	<0.0128
	08/16/2017		0.00847 JB	0.00367	0.0723	0.154	<0.000160	0.00244	<0.000260	0.00105 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00161 J	0.00196 JB	0.00274	<0.000310	0.00179 J	0.00448 J
	04/05/2018		<0.00515	0.00353	0.107	0.166 J	<0.000160	0.00143 JB	<0.000260	0.00180 JB	<0.0150	<0.000240	<0.000250	<0.0000490	0.00161 JB	0.00233 B	0.00261 B	<0.000310	0.00165 JB	0.00823 J
	04/05/2018	FD	<0.00515	0.00350	0.109	0.172 J	<0.000160	0.00118 JB	<0.000260	0.00166 JB	<0.0150	<0.000240	0.000388 JB	<0.0000490	0.00161 JB	0.00229 B	0.00227 B	<0.000310	0.00163 JB	0.0116 J
	10/01/2018		0.00927 JB	0.00327	0.120	0.145 J	<0.000160	0.000817 JB	<0.000260	0.00143 JB	<0.0150	<0.000240	0.000555 JB	<0.0000490	0.00157 J	0.00309	0.00290	<0.000310	0.00189 J	0.0203 JB
	04/04/2019		<0.00515	0.00384	0.0984	0.150 J	<0.000160	0.00167 J	<0.000260	0.00167 J	<0.0150	<0.000240	0.000643 J	<0.0000490	0.00180 J	0.0335	0.00294	<0.000310	0.00168 J	0.0260
	04/04/2019	FD	<0.00515	0.00346	0.0972	0.185 J	<0.000160	0.00138 JB	<0.000260	0.00105 J	<0.0150	<0.000240	0.000563 JB	<0.0000490	0.00147 J	0.00314	0.00305	<0.000310	0.00162 J	0.0192 J
	10/24/2019		<0.00515	0.00378	0.0915	0.116 J	<0.000160	0.00223 B	<0.000260	0.000686 JB	<0.0150	0.000244 J	<0.000250	0.0000572 JB	0.00167 J	0.00478	0.00218 B	<0.000310	0.00166 J	0.0365
	06/18/2020		<0.0554	0.00386	0.0956	0.148 J	<0.000478	0.00178 J	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00174 J	0.00270	0.00256	<0.000513	<0.00754	0.0203 J
	10/08/2020		<0.0554	0.00355	0.0888	0.151 J	<0.000478	0.00166 J	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100 [R]	0.00189 J	<0.000952	0.00272	<0.000513	<0.00754	0.0302
	04/15/2021		<0.0185	0.00406	0.101	0.145 J	<0.000150	0.00244	<0.0000596	0.00308 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00195 J	0.00163 J	0.00233	<0.0000700	0.00163 J	0.0107 JB
	09/16/2021		<0.0185	0.00347	0.115	0.147 J	<0.000150	0.00165 J	<0.0000596	0.00159 JB	<0.0281	<0.000849	<0.000704	<0.000100	0.00169 J	0.000903 J	0.00185 J	<0.0000700	0.00217 J	0.00895 J
	04/14/2022		0.0872 J	0.00385	0.117	0.153 J	<0.000150	0.00214	<0.0000596	0.00286 J	<0.0281	<0.000849	0.00193 JB	<0.000100	0.00167 J	0.00218	0.00156 J	<0.0000700	0.00209 J	0.00729 J
	10/13/2022		0.0857 J	0.00372	0.134	0.133 J	<0.000150	0.00158 J	0.000117 J	0.00255 J	0.0723 J	<0.000849	0.00436 J	<0.000100	0.00170 J	0.00158 J	0.00154 J	<0.0000700	0.00230 J	0.0155 J
	03/23/2023		0.543	0.00367	0.179	0.155 J	<0.000150	0.00508	0.000364 J	0.00219 J	0.562	0.000878 J	0.0189	<0.000100	0.00182 J	0.00194 J	0.00124 J	<0.0000700	0.00270 J	0.00795 J
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-18	08/23/2010		0.0787	<0.00500	0.0575	0.334	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.314	<0.000200	0.00561	0.0298	0.00548	<0.00500	0.0123	0.0772
	02/24/2011		0.0157	<0.00500	0.0766	0.330	<0.00200	0.0186	<0.00500	<0.00500	<0.200	<0.00500	0.00536	<0.000200	<0.00500	0.0144	0.00501	<0.00500	0.00883	0.0439
	07/18/2011		0.0244	<0.00500	0.05636	0.396	<0.00200	0.0111	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.0129	<0.00500	<0.00500	0.00666	0.0661
	01/31/2012		0.0113	<0.00500	0.0645	0.133	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0191
	07/25/2012		0.0110	<0.00500	0.0780	0.230	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00684
	02/22/2013		0.0742	<0.00500	0.105	0.249	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0129	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.0138	0.0187
	08/22/2013		<0.0100	<0.00500	0.110	0.243	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00509	<0.00500	<0.00500	<0.00500	<0.00500
	02/26/2014		0.0213	<0.00500	0.0766	0.244	<0.00200	<0.00500	<0.00500	0.0215	<0.200	<0.00500	0.0117	<0.000200	<0.00500	0.00681	<0.00500	<0.00500	0.00701	0.0465
	08/20/2014		1.31	<0.00500	0.145	0.242	<0.00200	0.00506	<0.00500	<0.00500	0.637	<0.00500	0.0378	<0.000200	<0.00500	0.00634	<0.00500	<0.00500	<0.00500	0.0363
	02/26/2015		0.069 J	0.0026	0.10	0.26	<0.00070	<0.0014	<0.0023	0.0061 J	0.022 J	0.00026 J	<0.0012	<0.000049	0.0020 J	<0.0049	<0.0074	<0.0028	0.0039 J	0.017 J
	08/25/2015		<0.0350	0.00288	0.116	0.188 J	<0.000160	0.00118 J	<0.000260	0.000646 J	<0.0141	<0.000240	0.00120 J	<0.0000490	0.00612	0.00151 J	0.00178 J	<0.000310	0.00434 J	0.00669 J
	08/17/2016		<0.00200	0.00194 J	0.108	0.223	<0.000160	0.00195 JB	<0.000260	0.00214 JB	0.0201 J	<0.000240	0.00261 J	0.0000593 JB	0.00217 J	0.00139 JB	0.00173 J	<0.000310	0.00423 J	0.00992 JB
	08/16/2017		<0.00515	0.00174 J	0.135	0.169	<0.000160	0.00176 J	<0.000260	0.000766 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00174 J	0.00106 JB	0.00299	<0.000310	0.00434 J	0.00897 J
	10/01/2018		<0.00515	0.00225	0.0916	0.240	<0.000160	0.00185 JB	<0.000260	0.00231 JB	<0.0150	0.000351 JB	0.000538 JB	<0.0000490	0.00166 J	0.0101	0.00252	<0.000310	0.00428 J	0.0334 B
	10/24/2019		<0.00515	0.00232	0.0826	0.168 J	<0.000160	0.00258 B	<0.000260	0.00302 JB	<0.0150	<0.000240	<0.000250	0.0000660 JB	0.00193 J	0.00878	0.00190 JB	<0.000310	0.00354 J	0.0682
	10/08/2020		<0.0554	0.00209	0.102	0.183 J	<0.000478	0.00337	<0.000477	0.00637	<0.0489	<0.00249	0.00412 J	--[1]	0.00166 J	0.0117	0.00196 J	<0.000513	<0.00754	0.124
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021																	
MW-18R	09/16/2021		<0.0185	0.00409	0.105	0.122 J	<0.000150	0.00139 J	<0.0000596	0.00238 JB	<0.0281	<0.000849	0.00166 J	<0.000100	0.00448 J	<0.000816	0.00455	<0.0000700	0.00269 J	0.00553 J
	10/13/2022		0.0268 J	0.00534	0.114	0.141 J	<0.000150	<0.00124	<0.0000596	0.00317 J	<0.0281	<0.000849	0.00171 J	<0.000100	0.00339 J	<0.000816	0.00143 J	<0.0000700	0.00141 J	0.0841
	10/05/2023		<0.0185	0.00598	0.0859	0.167 J	<0.000150	0.00131 J	<0.0000596	0.00155 J	<0.0281	<0.000849	0.00161 J	<0.000100	0.00321 J	0.00640	0.00220	<0.0000700	0.00132 J	0.0738
	04/04/2024		<0.0185	0.00576	0.0924	0.145 J	<0.000150	<0.00124	<0.0000596	<0.00151	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00333 J	<0.000816	0.00166 J	<0.0000700	0.00143 J	0.0216 J
MW-19	08/23/2010		0.101	0.0476	0.229	<0.020	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00666	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0227
	02/24/2011		<0.0100	<0.00500	0.0764	0.180	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0318
	07/18/2011		<0.0100	<0.00500	0.0920	0.266	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00781	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0553
	01/31/2012		<0.0100	<0.00500	0.0688	0.350	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00553	<0.000200	<0.00500	0.00525	<0.00500	<0.00500	<0.00500	0.0345
	07/25/2012		0.0114	<0.00500	0.106	0.535	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00593	<0.000200	<0.00500	0.00664	<0.00500	<0.00500	<0.00500	0.0714
	02/26/2013		<0.0100	<0.00500	0.0870	0.300	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00566	<0.00500	<0.00500	<0.00500	0.0629
	08/22/2013		<0.0100	<0.00500	0.0857	0.241	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00512
	08/22/2013	FD	0.0182	<0.00500	0.0864	0.237	<0.00200	0.0143	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00900	<0.00500	<0.00500	<0.00500	<0.00500
	02/26/2014		0.0120	<0.00500	0.0793	0.227	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0157	<0.000200	<0.00500	0.0122	<0.00500	<0.00500	<0.00500	0.0333
	02/26/2014	FD	0.0435	<0.00500	0.0753	0.204	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0165	<0.000200	<0.00500	0.0123	<0.00500	<0.00500	<0.00500	0.0350
	08/19/2014		0.0461	<0.00500	0.269	0.279	<0.00200	0.0352	<0.00500	<0.00500	0.263	<0.00500	0.0204	<0.000200	<0.00500	0.0261	<0.00500	<0.00500	<0.00500	0.00854
	08/19/2014	FD	0.0208	<0.00500	0.0846	0.236	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0106	<0.000200	<0.00500	0.00943	<0.00500	<0.00500	<0.00500	0.00640
	02/26/2015		<0.035	0.0046	0.070	0.22	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0032 J	<0.0049	<0.0074	<0.0028	0.0025 J	0.014 J
	02/26/2015	FD	0.089 J	0.0046	0.069	0.21	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0030 J	<0.0049	<0.0074	<0.0028	0.0025 J	0.013 J
	08/26/2015		<0.0350	0.00422	0.0875	0.185 J	<0.000160	0.00105 J	<0.000260	0.000732 J	<0.0141	<0.000240	<0.000250	<0.0000490	0.0107	0.00168 J	0.00138 J	<0.000310	0.00179 J	0.00486 J
	03/08/2016		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2016		0.00479 JB	0.00383	0.0919	0.191	<0.000160	0.00129 JB	<0.000260	0.000646 JB	0.0268 JB	<0.000240	0.00104 JB	<0.0000490	0.00287 J	0.000547 JB	0.00148 J	<0.000310	0.00312 J	0.00397 J
	02/08/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/2017		0.00686 JB	0.00365	0.104	0.148	<0.000160	0.000704 J	<0.000260	0.00395 J	<0.0150	<0.000240	0.000510 J	<0.0000490	0.00328 J	0.0123	0.00143 J	<0.000310	0.00208 J	0.0241 J
	08/16/2017	FD	<0.00515	0.00351	0.103	0.151	<0.000160	0.000627 J	<0.000260	0.00304 J	<0.0150	<0.000240	0.000995 JB	<0.0000490	0.00317 J	0.00919	0.00138 J	<0.000310	0.00220 J	0.0207 J
	04/05/2018		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		0.00731 JB	0.00196 J	0.0939	0.145 J	<0.000160	0.000756 JB	0.00133 J	0.00446 JB	<0.0150	<0.000240	0.0179	<0.0000490	0.00480 J	0.0726	0.00109 J	<0.000310	0.00250 J	0.0926
	04/04/2019		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		<0.00515	0.00135 J	0.0639	0.162 J	<0.000160	<0.000540	0.00261	0.00138 JB	<0.0150	<0.000240	0.0406	<0.0000490	0.00358 J	0.181	0.00146 JB	<0.000310	0.00274 J	0.0196 J
	06/18/2020		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	04/15/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021																	
MW-19R	09/16/2021		0.0302 J	0.00316	0.112	0.166 J	<0.000150	<0.00124	0.000518 J	0.00355 JB	<0.0281	<0.000849	0.0160	<0.000100	0.00424 J	0.0142	0.00150 J	<0.0000700	0.00244 J	0.0329
	04/14/2022		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		0.0443 J	0.00332	0.186	0.179 J	<0.000150	<0.00124	0.0000855 J	0.00166 J	0.0357 J	<0.000849	0.00245 J	<0.000100	0.00175 J	0.000997 J	0.00129 J	<0.0000700	0.00323 J	0.0192 J
	03/23/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		<0.0185	0.00319	0.169	0.183 J	<0.000150	0.00175 J	0.0000642 J	0.00198 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00265 J	0.00203	0.00121 J	<0.0000700	0.00264 J	0.0285
	04/04/2024		<0.0185	0.00341	0.157	0.178 J	<0.000150	<0.00124	<0.0000596	0.00254 J	<0.0281	<0.000849	0.000783 J	<0.000100 [R]	0.00213 J	0.00228	0.00122 J	<0.0000700	0.00282 J	0.0500
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-20	08/23/2010		0.0891	<0.00500	0.122	0.143	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00970
	02/25/2011		<0.0100	<0.00500	0.120	0.150	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0643
	07/18/2011		<0.0100	<0.00500	0.134	0.159	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0278
	01/31/2012		<0.0100	<0.00500	0.114	0.149	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0171
	07/25/2012		<0.0100	<0.00500	0.107	0.217	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0187
	02/22/2013		0.0294	<0.00500	0.102	0.164	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0165
	08/20/2013		0.0104	<0.00500	0.102	0.172	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00966	<0.000200	<0.00500	0.0112	<0.00500	<0.00500	<0.00500	0.0242
	02/26/2014		<0.0100	<0.00500	0.112	0.173	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0107	<0.000200	<0.00500	0.00800	<0.00500	<0.00500	<0.00500	0.00954
	08/19/2014		0.290	<0.00500	0.108	0.194	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0116
	02/24/2015		0.038 J	0.0031	0.11	0.17 J	<0.00070	0.0020 J	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0024 J	<0.0049	<0.0074	<0.0028	0.0026 J	0.023 J
	08/25/2015		<0.0350	0.00396	0.108	0.180 J	<0.000160	0.000955 J	<0.000260	0.00109 J	<0.0141	<0.000240	<0.000250	<0.0000490	0.00167 J	0.000669 J	0.00141 J	<0.000310	0.00254 J	0.00578 J
	08/16/2016		0.00470 JB	0.00389	0.108	0.177	<0.000160	0.00177 JB	<0.000260	0.00552	0.0167 JB	0.000352 JB	0.000461 JB	<0.0000490	0.00236 J	0.000656 JB	0.00145 J	<0.000310	0.00275 J	0.00757 J
	08/17/2017		0.00779 JB	0.00353	0.112	0.152	<0.000160	0.000878 J	<0.000260	0.00200 J	<0.0150	<0.000240	0.000300 J	<0.0000490	0.00241 J	0.00383	0.00130 J	<0.000310	0.00222 J	0.0218 J
	10/01/2018		0.0130 JB	0.00195 J	0.119	0.156 J	<0.000160	0.00145 JB	0.00462	0.000825 JB	<0.0150	<0.000240	0.0259	<0.0000490	0.0270	0.142	0.00114 J	<0.000310	0.00196 J	0.0702
	10/24/2019		<0.00515	0.00342	0.139	0.164 J	<0.000160	0.00133 JB	<0.000260	<0.000520	<0.0150	<0.000240	0.000407 J	<0.0000490	0.0144	0.0135	0.00136 JB	<0.000310	0.00208 J	0.0260
	10/08/2020		<0.0554	0.00367	0.122	0.182 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100 [R]	0.00276 J	0.00103 J	0.00117 J	<0.000513	<0.00754	0.0150 J
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021																	
MW-20R	09/16/2021		<0.0185	0.00322	0.114	0.195 J	<0.000150	<0.00124	0.000467 J	0.00401 JB	<0.0281	<0.000849	0.0109	<0.000100	0.0242	0.00560	0.00167 J	<0.0000700	0.00303 J	0.0399
	10/13/2022		0.139	0.00376	0.120	0.169 J	<0.000150	0.00963	0.000277 J	0.00462 J	0.117	<0.000849	0.00715	<0.000100	0.0147	0.00779	0.00181 J	<0.0000700	0.00275 J	0.0931
	10/05/2023		<0.0185	0.00380	0.117	0.181 J	<0.000150	0.00181 J	0.000101 J	0.00268 J	<0.0281	<0.000849	0.000965 J	<0.000100	0.00571	0.00282	0.00206	<0.0000700	0.00254 J	0.0677
	04/04/2024		<0.0185	0.00404	0.124	0.188 J	<0.000150	<0.00124	<0.0000596	0.00292 J	<0.0281	<0.000849	0.000953 J	<0.000100 [R]	0.00391 J	0.00136 J	0.00228	<0.0000700	0.00303 J	0.0555
MW-21	08/23/2010		0.195	<0.00500	0.232	0.208	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0567	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00898	0.0307
	02/28/2011		<0.0100	<0.00500	0.258	0.257	<0.00200	0.00620	<0.00500	<0.00500	<0.200	<0.00500	0.102	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.0101	0.0184
	02/28/2011	FD	<0.0100	<0.00500	0.256	0.252	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.101	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00975	0.0213
	07/19/2011		<0.0100	<0.00500	0.242	0.225	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0346	<0.000200	<0.00500	0.00836	<0.00500	<0.00500	0.00873	0.0286
	01/31/2012		<0.0100	<0.00500	0.245	0.216	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0375	<0.000200	<0.00500	0.00746	<0.00500	<0.00500	0.00704	0.0170
	07/26/2012		<0.0100	<0.00500	0.244	0.261	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0380	<0.000200	<0.00500	0.00827	<0.00500	<0.00500	0.00862	0.0163
	02/22/2013		0.0818	<0.00500	0.224	0.286	<0.00200	0.0364	<0.00500	<0.00500	0.403	<0.00500	0.0467	<0.000200	<0.00500	0.0409	<0.00500	<0.00500	0.00962	0.0319
	08/20/2013		<0.0100	<0.00500	0.179	0.308	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0668	<0.000200	<0.00500	0.0219	<0.00500	<0.00500	0.00936	0.0195
	02/25/2014		<0.0100	<0.00500	0.187	0.335	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0709	<0.000200	<0.00500	0.0171	<0.00500	<0.00500	0.00939	0.0531
	08/19/2014		0.0299	<0.00500	0.180	0.350	<0.00200	<0.00500	<0.00500	<0.00500	0.344	<0.00500	0.0439	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00844	0.0208
	02/24/2015		<0.035	0.0017 J	0.21	0.36	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	0.00032 J	0.028	<0.000049	0.00074 J	<0.0049	<0.0074	<0.0028	0.0089 J	0.025 J
	08/25/2015		<0.0350	0.00221	0.224	0.369	<0.000160	0.000810 J	<0.000260	0.000702 J	<0.0141	0.000854 J	0.0110	<0.0000490	<0.00160	0.00180 J	0.000525 J	<0.000310	0.00837 J	0.00615 J
	08/16/2016		0.00210 JB	0.00147 J	0.171	0.460	<0.000160	0.00115 JB	<0.000260	0.000881 JB	<0.0150	<0.000240	0.00793	--	0.000639 J	0.00167 JB	0.000702 J	<0.000310	0.00920 J	0.00432 J
	08/17/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		REMOVED FROM MONITORING PROGRAM																	
	10/21/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024																	
MW-22	08/23/2010		0.121	<0.00500	0.165	0.174	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0306	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00604	0.0916
	02/28/2011		<0.0100	<0.00500	0.146	0.173	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0108	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00616	0.0487
	07/19/2011		<0.0100	<0.00500	0.150	0.178	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00721	<0.000200	<0.00500	0.00546	<0.00500	<0.00500	0.00638	0.0203
	01/31/2012		<0.0100	<0.00500	0.151	0.141	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0103	<0.000200	<0.00500	0.00762	<0.00500	<0.00500	0.00501	0.0183
	07/26/2012		<0.0100	<0.00500	0.143	0.196	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00949	<0.000200	<0.00500	0.00839	<0.00500	<0.00500	0.00564	0.00680
	02/21/2013		0.0231	<0.00500	0.145	0.180	<0.00200	0.0305	<0.00500	<0.00500	0.269	<0.00500	0.0386	<0.000200	<0.00500	0.0520	<0.00500	<0.00500	0.00590	0.0208
	08/21/2013		<0.0100	<0.00500	0.137	0.210	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0233	<0.000200	<0.00500	0.0209	<0.00500	<0.00500	0.00658	0.00566
	02/25/2014		<0.0100	<0.00500	0.143	0.204	<0.00200	0.0133	<0.00500	<0.00500	<0.200	<0.00500	0.0238	<0.000200	<0.00500	0.0266	<0.00500	<0.00500	0.00632	0.0150
	08/20/2014		40.3	0.00642	0.141	0.239	<0.00200	0.184	<0.00500	0.00983	4.32	0.00743	0.0715	<0.000200	0.00881	0.0999	<0.00500	<0.00500	0.0336	0.0370
	02/24/2015		0.037 J	0.0025	0.18	0.21	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	0.00077 J	0.0026 J	<0.000049	0.0014 J	<0.0049	<0.0074	<0.0028	0.012	0.019 J
	08/25/2015		0.0452 J	0.00279	0.167	0.208	<0.000160	0.00139 J	0.000337 J	0.000760 J	<0.0141	<0.000240	0.00253 J	<0.0000490	<0.00160	0.00240	<0.000380	<0.000310	0.00934 J	0.00438 J
	08/16/2016		0.00281 JB	0.00241	0.150	0.190	<0.000160	0.00199 JB	<0.000260	0.000854 JB	<0.0150	<0.000240	0.00134 JB	<0.0000490	0.00142 J	0.00143 JB	0.000387 J	<0.000310	0.00865 J	0.00380 J
	08/17/2017		0.00751 JB	0.00196 J	0.130	0.159	<0.000160	0.00103 J	<0.000260	0.000730 J	<0.0150	<0.000240	0.000893 J	<0.0000490	0.00161 J	0.0670	0.000652 J	<0.000310	0.00690 J	0.00439 J
	10/01/2018		0.00765 JB	0.00219	0.121	0.190 J	<0.000160	0.00267 B	<0.000260	0.00812	<0.0150	0.000354 JB	0.000828 JB	<0.0000490	0.00183 J	0.0219	0.000795 J	<0.000310	0.00585 J	0.0566
	10/24/2019		<0.00515	0.00238	0.122	0.184 J	<0.000160	0.00289	<0.000260	0.0144	<0.0150	0.000482 J	0.000636 J	<0.0000490	0.00214 J	0.0150	0.000956 JB	<0.000310	0.00609 J	0.130
	10/08/2020		<0.0554	0.00225	0.106	0.216	<0.000478	0.00593	<0.000477	0.0113	<0.0489	<0.00249	<0.00132	0.000100 J	0.00280 J	0.0109	<0.000657	<0.000513	<0.00754	0.105
	09/16/2021		0.0236 J	0.00209	0.103	0.205	<0.000150	0.00865	<0.0000596	0.00392 JB	<0.0281	<0.000849	<0.000704	<0.000100	0.00330 J	0.00983	<0.000300	<0.0000700	0.00889 J	0.0140 J
	10/13/2022		<0.0185	0.00203	0.126	0.172 J	<0.000150	0.00366	0.0000707 J	<0.00151	<0.0281	<0.000849	<0.000704	--[1]	0.00187 J	0.00439	0.000647 J	<0.0000700	0.00757 J	0.0164 J
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			**5.0**	**0.01**	**2**	**0.75**	**0.005**	**0.05**	**0.05**	**1.0**	**1.0**	**0.015**	**0.2**	**0.002**	**1.0**	**0.2**	**0.05**	**0.05**	**0.03**	**10.0**
MW-23	08/23/2010		0.237	<0.00500	0.245	0.157	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00669	<0.000200	<0.00500	0.00859	<0.00500	<0.00500	<0.00500	0.0570
	02/28/2011		<0.0100	<0.00500	0.164	0.151	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00831	<0.000200	<0.00500	0.00930	<0.00500	<0.00500	<0.00500	0.0463
	07/19/2011		<0.0100	<0.00500	0.272	0.181	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00647	<0.000200	<0.00500	0.00912	<0.00500	<0.00500	<0.00500	0.0213
	02/01/2012		0.0108	<0.00500	0.268	0.159	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00658	<0.000200	<0.00500	0.00714	<0.00500	<0.00500	<0.00500	0.0207
	07/26/2012		<0.0100	<0.00500	0.252	0.198	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0101
	02/26/2013		<0.0100	<0.00500	0.170	0.196	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00944	<0.000200	<0.00500	0.0155	<0.00500	<0.00500	<0.00500	0.0179
	08/21/2013		<0.0100	<0.00500	0.141	0.207	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0315	<0.000200	<0.00500	0.0286	<0.00500	<0.00500	0.00533	0.00919
	02/25/2014		<0.0100	<0.00500	0.162	0.198	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0486	<0.000200	<0.00500	0.0410	<0.00500	<0.00500	<0.00500	0.0224
	08/21/2014		0.0606	<0.00500	0.147	0.138	<0.00200	0.0129	<0.00500	<0.00500	<0.200	<0.00500	0.157	<0.000200	0.00522	0.0719	<0.00500	<0.00500	<0.00500	0.0104
	02/25/2015		0.042 J	0.0024	0.11	0.21	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	0.00031 J	<0.0012	<0.000049	0.0017 J	<0.0049	<0.0074	<0.0028	0.0052 J	0.046 J
	08/25/2015		<0.0350	0.00255	0.152	0.195 J	<0.000160	0.00188 J	<0.000260	0.00198 J	<0.0141	0.000316 J	0.00167 J	<0.0000490	<0.00160	0.00187 J	0.00147 J	<0.000310	0.00508 J	0.00494 J
	08/17/2016		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020																	
MW-23R	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24	08/24/2010		0.187	<0.00500	0.0867	0.140	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00922
	02/28/2011		<0.0100	<0.00500	0.0878	0.154	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00634	<0.00500	<0.00500	<0.00500	0.0245
	07/14/2011		<0.0100	<0.00500	0.0932	0.173	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00543	<0.00500	<0.00500	<0.00500	0.0249
	02/01/2012		<0.0100	<0.00500	0.0946	0.127	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00760	<0.000200	<0.00500	0.00725	<0.00500	<0.00500	<0.00500	0.0101
	07/30/2012		<0.0100	<0.00500	0.0889	0.179	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00508	<0.000200	<0.00500	0.00758	<0.00500	<0.00500	<0.00500	0.0127
	07/30/2012	FD	<0.0100	<0.00500	0.0851	0.160	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00731	<0.00500	<0.00500	<0.00500	0.0155
	02/26/2013		<0.0100	<0.00500	0.0913	0.187	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0106	<0.000200	<0.00500	0.0165	<0.00500	<0.00500	<0.00500	0.0151
	08/21/2013		<0.0100	<0.00500	0.0856	0.183	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0146	<0.000200	<0.00500	0.0157	<0.00500	<0.00500	<0.00500	0.00684
	02/27/2014		0.0247	<0.00500	0.0803	0.197	<0.00200	0.0128	<0.00500	<0.00500	<0.200	<0.00500	0.0139	<0.000200	<0.00500	0.0213	<0.00500	<0.00500	<0.00500	0.0207
	08/21/2014		0.270	<0.00500	0.0901	0.117	<0.00200	0.258	<0.00500	0.00634	1.28	<0.00500	0.0383	<0.000200	0.00911	0.135	<0.00500	<0.00500	<0.00500	0.0114
	02/25/2015		0.040 J	0.0055	0.078	0.19 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0025 J	<0.0049	<0.0074	<0.0028	0.0026 J	0.013 J
	08/25/2015		<0.0350	0.00600	0.0765	0.177 J	<0.000160	<0.000540	<0.000260	0.000742 J	<0.0141	<0.000240	0.000287 J	<0.0000490	0.00185 J	0.000580 J	0.00102 J	<0.000310	0.00239 J	0.00575 J
	08/16/2016		0.00364 JB	0.00606	0.0725	0.168	<0.000160	0.00155 JB	<0.000260	0.00302 JB	0.0247 JB	<0.000240	0.000485 JB	<0.0000490	0.00290 J	0.000402 JB	0.00140 J	<0.000310	0.00237 J	0.00752 J
	08/17/2017		0.0133 JB	0.00539	0.0724	0.137	<0.000160	0.00205	<0.000260	0.00136 J	<0.0150	<0.000240	0.000648 J	<0.0000490	0.00245 J	0.00205 B	0.00140 J	<0.000310	0.00209 J	0.00720 J
	10/01/2018		0.0128 JB	0.00565	0.0801	0.136 J	<0.000160	0.00110 JB	<0.000260	0.00636 B	<0.0150	0.000379 JB	0.00140 JB	<0.0000490	0.00228 J	0.0114	0.000648 J	<0.000310	0.00283 J	0.150
	10/24/2019		<0.00515	0.00556	0.0794	0.152 J	<0.000160	0.00101 JB	<0.000260	0.00158 JB	<0.0150	0.000342 J	0.00107 J	0.0000560 JB	0.00279 J	0.00167 J	0.000408 JB	<0.000310	0.00298 J	0.0285
	10/08/2020		<0.0554	0.00547	0.0854	0.166 J	<0.000478	0.00362	<0.000477	<0.00250	<0.0489	<0.00249	0.00401 J	0.000100 J	0.00244 J	0.00104 J	<0.000657	<0.000513	<0.00754	0.0192 J
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021																	
MW-24R	09/16/2021		0.0434 J	0.00479	0.0812	0.132 J	<0.000150	0.0224	<0.0000596	0.00269 JB	<0.0281	<0.000849	<0.000704	<0.000100	0.00939	0.00426	0.00235	<0.0000700	0.00226 J	0.0110 J
	10/13/2022		<0.0185	0.00576	0.0838	0.126 J	<0.000150	0.0148	<0.0000596	0.00281 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00237 J	0.00167 J	0.00251	<0.0000700	0.00221 J	0.0321
	10/05/2023		0.0190 J	0.00532	0.0813	0.131 J	<0.000150	0.00665	0.0000597 J	0.00199 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00246 J	0.00195 J	0.00138 J	<0.0000700	0.00277 J	0.0436
	04/04/2024		0.0954 J	0.00571	0.0797	0.139 J	<0.000150	0.00515	0.0000819 J	0.00346 J	0.0756 J	<0.000849	0.00212 J	<0.000100 [R]	0.00233 J	0.00112 J	0.00371	<0.0000700	0.00225 J	0.0163 J

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-25	08/23/2010		0.244	<0.00500	0.246	0.174	<0.00200	0.0476	<0.00500	<0.00500	<0.200	<0.00500	0.0109	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0194
	02/28/2011		<0.0100	<0.00500	0.205	0.198	<0.00200	0.0537	<0.00500	<0.00500	<0.200	<0.00500	0.00715	<0.000200	<0.00500	0.00516	<0.00500	<0.00500	0.00535	0.0424
	07/18/2011		0.0444	<0.00500	0.186	0.173	<0.00200	0.00732	<0.00500	<0.00500	<0.200	<0.00500	0.00608	<0.000200	<0.00500	0.00832	<0.00500	<0.00500	<0.00500	0.00556
	02/01/2012		<0.0100	<0.00500	0.228	0.175	<0.00200	0.00744	<0.00500	<0.00500	<0.200	<0.00500	0.00804	<0.000200	<0.00500	0.00708	<0.00500	<0.00500	0.00602	0.00582
	07/26/2012		<0.0100	<0.00500	0.178	0.220	<0.00200	0.00961	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0102
	02/26/2013		<0.0100	<0.00500	0.149	0.241	<0.00200	0.00822	<0.00500	<0.00500	<0.200	<0.00500	0.0104	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00807	0.0148
	08/22/2013		<0.0100	<0.00500	0.224	0.262	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0122	<0.000200	<0.00500	0.0210	<0.00500	<0.00500	0.00862	<0.00500
	08/22/2013	FD	<0.0100	<0.00500	0.226	0.263	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0127	<0.000200	<0.00500	0.0210	<0.00500	<0.00500	0.00860	0.00607
	02/26/2014		<0.0100	<0.00500	0.220	0.231	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00881	<0.000200	<0.00500	0.00775	<0.00500	<0.00500	0.00724	0.0210
	02/26/2014	FD	<0.0100	<0.00500	0.213	0.218	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00882	<0.000200	<0.00500	0.00701	<0.00500	<0.00500	0.00645	0.0205
	08/19/2014		0.285	<0.00500	0.198	0.265	<0.00200	0.154	<0.00500	<0.00500	0.814	<0.00500	0.0456	<0.000200	0.00573	0.100	<0.00500	<0.00500	0.00749	0.0106
	08/19/2014	FD	0.291	<0.00500	0.201	0.263	<0.00200	0.185	<0.00500	0.00504	0.968	<0.00500	0.0511	<0.000200	0.00638	0.113	<0.00500	<0.00500	0.00764	0.0120
	02/25/2015		0.13	0.0023	0.20	0.23	<0.00070	0.0016 J	<0.0023	<0.0053	<0.014	0.00050 J	<0.0012	<0.000049	0.0029 J	0.0056 J	<0.0074	<0.0028	0.0078 J	0.0086 J
	02/25/2015	FD	<0.035	0.0023	0.20	0.22	<0.00070	0.0017 J	<0.0023	<0.0053	<0.014	0.00026 J	<0.0012	<0.000049	0.0011 J	0.0054 J	<0.0074	<0.0028	0.0080 J	0.014 J
	08/25/2015		<0.0350	0.00287	0.227	0.216	<0.000160	0.00160 J	0.00119 J	<0.000520	<0.0141	<0.000240	0.00279 J	<0.0000490	<0.00160	0.00514	0.00109 J	<0.000310	0.00732 J	0.00472 J
	08/25/2015	FD	<0.0350	0.00296	0.231	0.214	<0.000160	0.00170 J	0.00113 J	0.00103 J	<0.0141	<0.000240	0.00287 J	<0.0000490	<0.00160	0.00528	0.00102 J	<0.000310	0.00748 J	0.00497 J
	03/09/2016		0.00206 JB	0.00229	0.301	0.214	<0.000160	0.000609 J	0.00141 J	0.000781 J	0.0403 J	<0.000240	0.0386	<0.0000490	0.00171 JB	0.00572 B	0.00054 J	<0.000310	0.00852 J	0.00590 JB
	08/16/2016		0.00850 JB	0.00248	0.285	0.228	<0.000160	0.00166 JB	0.00171 J	0.00107 JB	0.0293 JB	<0.000240	0.0314	<0.0000490	0.00139 J	0.00617	0.000689 J	<0.000310	0.00928 J	0.00584 J
	08/16/2016	FD	0.00458 JB	0.00262	0.284	0.223	<0.000160	0.00155 JB	0.00179 J	0.000790 JB	0.0474 JB	<0.000240	0.0326	<0.0000490	0.00131 J	0.00570	0.000791 J	<0.000310	0.00939 J	0.00627 J
	02/07/2017		<0.0258	0.00261 J	0.322	0.227	<0.000800	<0.00270	0.00382 J	0.00406 J	<0.0750	<0.00120	0.0478	<0.0000490	0.00306 J	0.0165	0.000505 J	<0.00155	0.0104 J	<0.0128
	08/16/2017		0.00773 JB	0.00227	0.206	0.171	<0.000160	0.00158 J	0.00522	0.00310 J	<0.0150	<0.000240	<0.000250	0.0000544 J	0.00113 J	0.0556	0.00162 J	<0.000310	0.00588 J	0.0276
	08/16/2017	FD	0.00864 JB	0.00242	0.210	0.181	<0.000160	0.00153 J	0.00520	0.00289 J	<0.0150	<0.000240	<0.000250	<0.0000490	0.00124 J	0.0551	0.00128 J	<0.000310	0.00606 J	0.0262
	04/05/2018		<0.00515	0.00232 B	0.293	0.234	<0.000160	0.00101 JB	0.0114	0.00712	<0.0150	<0.000240	0.00523	<0.0000490	0.00158 JB	0.0125	0.00112 JB	<0.000310	0.00814 J	0.0133 J
	04/05/2018	FD	0.102	0.00226 B	0.299	0.229	<0.000160	0.000990 JB	0.0117	0.00671	0.0304 J	0.000307 JB	0.00709	<0.0000490	0.00121 JB	0.0120	0.00107 JB	<0.000310	0.00828 J	0.0153 J
	10/01/2018		0.0144 JB	0.00260	0.177	0.210	<0.000160	0.00110 JB	0.00874	0.00398 JB	<0.0150	0.000733 JB	0.0225	<0.0000490	0.00111 J	0.0123	0.000987 J	<0.000310	0.00919 J	0.00965 JB
	10/01/2018	FD	<0.00515	0.00246	0.192	0.209	<0.000160	0.000896 J	0.00925	0.00468 J	<0.0150	0.000421 J	0.0221	<0.0000490	0.00111 J	0.0122	0.000917 J	<0.000310	0.0101	0.00804 J
	04/04/2019		0.00661 JB	0.00262	0.195	0.225	<0.000160	<0.000540	0.00634	0.00495 J	<0.0150	0.000358 J	0.0317	<0.0000490	0.00163 J	0.0120	0.000430 J	<0.000310	0.00984 J	0.00846 J
	04/04/2019	FD	<0.00515	0.00243	0.184	0.139 J	<0.000160	<0.000540	0.00605	0.00384 J	<0.0150	0.000480 J	0.0377	<0.0000490	0.00118 J	0.0106	0.000395 J	<0.000310	0.00927 J	0.00656 J
	10/24/2019		<0.00515	0.00264	0.223	0.230	<0.000160	0.000564 JB	0.0124	0.0791	<0.0150	0.00292	0.0597	0.0000625 JB	0.00130 J	0.0149	0.00122 JB	<0.000310	0.0102	0.234
	10/24/2019	FD	<0.00515	0.00261	0.235	0.242	<0.000160	0.000541 J	0.0121	0.0867	<0.0150	0.00509	0.0758	0.0000660 JB	0.00137 J	0.0162	0.000627 J	<0.000310	0.00970 J	0.212
	06/18/2020		<0.0554	0.00274	0.127	0.297	<0.000478	<0.00149	0.0158	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00121 J	0.0104	<0.000657	<0.000513	0.0115 J	<0.00996
	10/08/2020		<0.0554	0.00233	0.126	0.275	<0.000478	<0.00149	0.00930	0.00324 J	<0.0489	<0.00249	0.0112	0.000108 J	0.00101 J	0.0189	<0.000657	<0.000513	0.00881 J	0.0261
	04/15/2021		<0.0185	0.00209	0.142	0.258	<0.000150	<0.00124	0.00562	0.00281 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00123 J	0.00763	<0.000300	<0.0000700	0.0102 J	0.00447 JB
	06/09/2021		PLUGGED AND ABANDONED JUNE 2021																	
MW-26	08/24/2010		0.115	<0.00500	0.131	0.169	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0156	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0254
	02/28/2011		<0.0100	<0.00500	0.110	0.187	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00890	<0.000200	<0.00500	0.00734	<0.00500	<0.00500	0.00602	0.0328
	07/14/2011		<0.0100	<0.00500	0.0994	0.192	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00679	<0.000200	<0.00500	0.00792	<0.00500	<0.00500	0.00546	0.00949
	02/01/2012		<0.0100	<0.00500	0.0854	0.163	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0122	<0.000200	<0.00500	0.0133	<0.00500	<0.00500	<0.00500	0.00949
	07/26/2012		0.0121	<0.00500	0.0966	0.214	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00694	<0.000200	<0.00500	0.00568	<0.00500	<0.00500	0.00559	0.0117
	02/26/2013		0.0134	<0.00500	0.103	0.189	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0635	<0.000200	<0.00500	0.0558	<0.00500	<0.00500	<0.00500	0.0233
	08/22/2013		0.0319	<0.00500	0.0910	0.209	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0174	<0.000200	<0.00500	0.00539	<0.00500	<0.00500	0.00577	0.00877
	02/26/2014		0.0236	<0.00500	0.0739	0.198	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00979	<0.000200	<0.00500	0.0128	<0.00500	<0.00500	0.00583	<0.00500
	08/21/2014		0.132	0.00816	0.138	0.167	<0.00200	0.0152	<0.00500	<0.00500	<0.200	<0.00500	0.00938	<0.000200	<0.00500	0.00900	<0.00500	<0.00500	0.00548	0.00770
	02/25/2015		0.051 J	0.0024	0.099	0.18 J	<0.00070	<0.0014	<0.0023	<0.0053	0.058 J	<0.00024	0.0022 J	<0.000049	0.0011 J	<0.0049	<0.0074	<0.0028	0.0041 J	0.015 J
	08/25/2015		<0.0350	0.00263	0.0990	0.181 J	<0.000160	0.000822 J	0.000366 J	0.000593 J	<0.0141	<0.000240	0.00175 J	<0.0000490	<0.00160	0.00104 J	<0.000380	<0.000310	0.00440 J	0.00418 J
	08/17/2016		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/13/2020		DRY WELL - PLUGGED AND ABANDONED AUGUST 2020																	
MW-26R	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Received by OCD: 4/15/2025 7:55:48 AM

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-27	08/18/2010		0.218	<0.00500	0.100	0.152	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0534	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00544	0.0453
	02/25/2011		<0.0100	<0.00500	0.0985	0.139	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0336	<0.000200	<0.00500	0.00769	<0.00500	<0.00500	0.00625	0.0294
	07/20/2011		0.0378	<0.00500	0.112	0.165	<0.00200	0.0353	<0.00500	<0.00500	0.393	<0.00500	0.0179	<0.000200	<0.00500	0.0415	<0.00500	<0.00500	0.00571	0.0121
	02/01/2012		<0.0100	<0.00500	0.0902	0.126	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00556	<0.00800	<0.00500	0.00533	<0.00500	<0.00500	<0.00500	0.0121
	07/26/2012		0.0155	<0.00500	0.118	0.172	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00587	<0.000200	<0.00500	0.00737	<0.00500	<0.00500	<0.00500	0.0117
	02/26/2013		<0.0100	<0.00500	0.120	0.184	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0586	<0.000200	0.00513	0.0593	<0.00500	<0.00500	<0.00500	0.0104
	08/20/2013		0.0440	<0.00500	0.162	0.222	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0239	<0.000200	<0.00500	0.0189	<0.00500	<0.00500	0.00899	<0.00500
	02/27/2014		<0.0100	<0.00500	0.139	0.232	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0134	<0.000200	<0.00500	0.0286	<0.00500	<0.00500	0.00680	0.00624
	08/21/2014		0.210	<0.00500	0.126	0.160	<0.00200	0.0447	<0.00500	<0.00500	0.278	<0.00500	0.0636	<0.000200	<0.00500	0.0592	<0.00500	<0.00500	0.00648	0.0182
	02/27/2015		<0.035	0.0033	0.084	0.30	<0.00070	0.0038 J	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0029 J	<0.0049	0.0080 J	<0.0028	0.0098 J	<0.0059
	08/26/2015		<0.0350	0.00353	0.0571	0.264	<0.000160	0.00256	<0.000260	0.000627 J	<0.0141	<0.000240	0.00206 J	<0.0000490	0.0139	0.00405	0.00318	<0.000310	0.00550 J	<0.00256
	03/08/2016		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/2016		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/08/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/05/2018		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2019		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/18/2020		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/15/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/2022		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/23/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/04/2024		REMOVED FROM MONITORING PROGRAM																	
	10/17/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024																	
MW-28	08/24/2010		0.129	<0.00500	0.0846	0.153	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	08/28/2010		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/2011		<0.0100	<0.00500	0.0923	0.147	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0190
	07/14/2011		<0.0100	<0.00500	0.103	0.172	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00658	<0.000200	<0.00500	0.00696	<0.00500	<0.00500	<0.00500	0.0113
	01/30/2012		<0.0100	<0.00500	0.0746	0.152	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0113
	07/24/2012		<0.0100	<0.00500	0.0830	0.204	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00812
	02/19/2013		<0.0100	<0.00500	0.0883	0.174	<0.00200	<0.00500	<0.00500	0.203	<0.200	<0.00500	0.0275	<0.000200	0.0100	<0.00500	<0.00500	<0.00500	<0.00500	0.0466
	08/20/2013		<0.0100	<0.00500	0.0790	0.168	<0.00200	<0.00500	<0.00500	0.0101	<0.200	<0.00500	0.00874	<0.000200	<0.00500	0.00561	<0.00500	<0.00500	<0.00500	0.0168
	02/24/2014		<0.0100	<0.00500	0.0836	0.180	<0.00200	<0.00500	<0.00500	0.00514	<0.200	<0.00500	0.00509	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00674
	08/19/2014		0.947	<0.00500	0.106	0.205	<0.00200	0.0238	<0.00500	0.0396	0.760	<0.00500	0.0128	<0.000200	<0.00500	0.0129	<0.00500	<0.00500	<0.00500	0.0335
	02/23/2015		<0.035	0.0040	0.090	0.17 J	<0.00070	<0.0014	<0.0023	0.0055 J	<0.014	<0.00024	<0.0012	<0.000049	0.0018 J	<0.0049	<0.0074	<0.0028	0.0025 J	0.017 J
	08/27/2015		<0.0350	0.00433	0.0849	0.171	<0.000160	<0.000540	<0.000260	0.00598	0.0385 J	<0.000240	0.000680 J	<0.0000490	0.00186 J	<0.000350	0.00220	<0.000310	0.00238 J	0.00393 J
	03/07/2016		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/2016		0.00413 JB	0.00448	0.0819	0.167	<0.000160	0.00104 JB	<0.000260	0.00860	0.0226 JB	<0.000240	0.000376 JB	<0.0000490	0.00221 J	0.000525 JB	0.00268	<0.000310	0.00266 J	0.00540 J
	02/06/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		0.0112 JB	0.00383	0.0715	0.136	<0.000160	<0.000540	<0.000260	0.00523	<0.0150	<0.000240	<0.000250	<0.0000490	0.00227 J	0.00178 JB	0.00158 J	<0.000310	0.00252 J	0.00955 J
	04/05/2018		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/01/2018		0.0229 JB	0.00430	0.0754	0.135 J	<0.000160	0.000809 JB	<0.000260	0.00409 JB	<0.0150	<0.000240	0.000260 JB	<0.0000490	0.00187 J	0.00286	0.00237	<0.000310	0.00250 J	0.0226 JB
	04/04/2019		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/24/2019		<0.00515	0.00394	0.0920	0.144 J	<0.000160	0.000804 J	<0.000260	0.00468 J	<0.0150	0.000284 J	0.00166 J	0.0000569 JB	0.00182 J	0.00149 J	0.00177 J	<0.000310	0.00242 J	0.0290
	06/18/2020		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/08/2020		<0.0554	0.00389	0.111	0.167 J	<0.000478	<0.00149	<0.000477	0.00502	<0.0489	<0.00249	0.00169 J	<0.000100 [R]	0.00292 J	0.00132 J	0.00216	<0.000513	<0.00754	0.0305
	04/15/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/2021		0.0243 J	0.00393	0.105	0.166 J	<0.000150	<0.00124	<0.0000596	0.00567 B	0.0285 JB	<0.000849	<0.000704	<0.000100	0.00195 J	<0.000816	0.00243	<0.0000700	0.00254 J	0.00556 J
	04/14/2022		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/2022		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	03/23/2023		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/05/2023		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	04/04/2024		--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)	--(1)
	10/03/2024		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/21/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024																	

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Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-29	08/24/2010		0.0261	<0.00500	0.0644	0.189	<0.00200	0.0317	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0375
	08/24/2010	FD	<0.0100	<0.00500	0.0652	0.186	<0.00200	0.0321	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0301
	02/28/2011		<0.0100	<0.00500	0.0630	0.195	<0.00200	0.0694	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0267
	07/14/2011		<0.0100	<0.00500	0.0652	0.189	<0.00200	0.162	<0.00500	<0.00500	<0.200	<0.00500	0.00532	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0240
	01/30/2012		<0.0100	<0.00500	0.0580	0.181	<0.00200	0.106	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0240
	07/24/2012		<0.0100	<0.00500	0.0978	0.249	<0.00200	0.261	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0162
	02/26/2013		<0.0100	<0.00500	0.0857	0.182	<0.00200	0.0690	<0.00500	<0.00500	<0.200	<0.00500	0.0471	<0.000200	<0.00500	0.0334	<0.00500	<0.00500	<0.00500	0.0132
	08/20/2013		<0.0100	<0.00500	0.0738	0.187	<0.00200	0.117	<0.00500	<0.00500	<0.200	<0.00500	0.0159	<0.000200	<0.00500	0.00667	<0.00500	<0.00500	<0.00500	<0.00500
	02/27/2014		<0.0100	<0.00500	0.0725	0.171	<0.00200	0.250	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0115
	02/27/2014	FD	<0.0100	<0.00500	0.0764	0.183	<0.00200	0.261	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00739
	08/20/2014		0.188	<0.00500	0.106	0.134	<0.00200	0.331	<0.00500	<0.00500	0.697	<0.00500	0.0754	<0.000200	0.00594	0.0777	<0.00500	<0.00500	<0.00500	0.00902
	02/25/2015		<0.035	0.0020	0.13	0.26	<0.00070	0.24	<0.0023	<0.0053	<0.014	<0.00024	<0.0012	<0.000049	0.0012 J	<0.0049	<0.0074	<0.0028	0.0062 J	0.013 J
	08/27/2015		<0.0350	0.00246	0.0884	0.238	<0.000160	0.130	<0.000260	0.000784 J	<0.0141	<0.000240	0.00153 J	<0.0000490	0.00111 J	0.000629 J	0.00169 J	<0.000310	0.00641 J	0.00333 J
	03/08/2016		0.00829 JB	0.00465	0.0757	0.165	<0.000160	0.00111 J	<0.000260	0.000558 J	<0.0150	<0.000240	0.000652 JB	<0.0000490	0.00482 J	0.00069 JB	0.00190 J	<0.000310	0.00213 J	<0.00256
	08/17/2016		<0.00200	0.00253	0.0851	0.204	<0.000160	0.00897	<0.000260	0.000863 JB	<0.0150	<0.000240	0.00135 JB	<0.0000490	0.00204 J	0.00119 JB	0.00140 J	<0.000310	0.00380 J	0.00330 JB
	02/09/2017		<0.0258	0.00263 J	0.0932	0.203	<0.000800	0.00552 J	<0.00130	0.00328 J	<0.0750	<0.00120	0.0150 J	<0.0000490	0.00291 J	0.00524 J	0.00148 J	<0.00155	0.00391 J	<0.0128
	08/17/2017		0.00798 JB	0.00242	0.0870	0.172	<0.000160	0.0178	<0.000260	0.00489 J	<0.0150	<0.000240	0.000305 J	<0.0000490	0.00200 J	0.00567	0.00181 J	<0.000310	0.00451 J	0.0308
	04/05/2018		<0.00515	0.00299	0.174	0.215	<0.000160	0.0268	<0.000260	0.00876	<0.0150	0.000398 JB	0.000735 JB	<0.0000490	0.00174 JB	0.0427	0.00163 JB	<0.000310	0.00571 J	0.162
	10/01/2018		<0.00515	0.00307	0.256	0.193 J	<0.000160	0.0293	<0.000260	0.00362 J	<0.0150	<0.000240	0.00110 J	<0.0000490	0.00122 J	0.00607	0.00193 J	<0.000310	0.00618 J	0.0644
	04/04/2019		0.0106 JB	0.00252	0.109	0.203	<0.000160	0.0171	<0.000260	0.00635	<0.0150	<0.000240	0.000417 J	<0.0000490	0.00157 J	0.00320	0.00116 J	<0.000310	0.00448 J	0.0829
	10/24/2019		<0.00515	0.00227	0.117	0.193 J	<0.000160	0.0528	<0.000260	0.00457 J	<0.0150	<0.000240	0.00139 J	0.0000693 JB	0.00144 J	0.00230	0.00168 J	<0.000310	0.00539 J	0.0628
	10/24/2019	FD	<0.00515	0.00230	0.113	0.207	<0.000160	0.0560	<0.000260	0.00949	<0.0150	0.000462 J	0.00170 J	0.0000681 JB	0.00145 J	0.00382	0.00161 J	<0.000310	0.00535 J	0.0811
	06/18/2020		<0.0554	0.00259	0.0880	0.194 J	<0.000478	0.0163	<0.000477	0.00330 J	<0.0489	<0.00249	<0.00132	<0.000100	0.00169 J	0.00189 J	0.00136 J	<0.000513	<0.00754	0.0215 J
	10/08/2020		<0.0554	0.00296	0.0672	0.177 J	<0.000478	0.00364	<0.000477	0.00283 J	<0.0489	<0.00249	<0.00132	<0.000100 [R]	0.00217 J	<0.000952	0.00178 J	<0.000513	<0.00754	0.0271
	04/15/2021		<0.0185	0.00241	0.0834	0.191 J	<0.000150	0.00334	<0.0000596	0.00235 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00185 J	0.00125 J	0.00137 J	<0.0000700	0.00355 J	0.0101 JB
	09/16/2021		<0.0185	0.00464	0.133	0.188 J	0.000543 J	0.00141 J	0.0000838 J	0.00757 B	<0.0281	<0.000849	0.00807	<0.000100	0.00263 J	0.00309	0.00137 J	<0.0000700	0.00361 J	0.0788
	04/14/2022		<0.0185	0.00265	0.182	0.210	<0.000150	0.0425	<0.0000596	0.00253 J	<0.0281	<0.000849	0.000863 JB	<0.000100	0.00190 J	0.00171 J	0.00159 J	<0.0000700	0.00689 J	0.0241 J
	10/13/2022		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	03/23/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	10/03/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	10/16/2024		DRY WELL - PLUGGED AND ABANDONED OCTOBER 2024																	
MW-30	06/21/2013		0.0436	0.00588	0.0424	0.164	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	0.00913	<0.00500	0.00554	<0.00500	<0.00500	<0.00500
	08/20/2013		<0.0100	<0.00500	0.0761	0.159	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0589	<0.000200	<0.00500	0.0263	<0.00500	<0.00500	<0.00500	<0.00500
	02/27/2014		0.0201	<0.00500	0.0672	0.180	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0644	<0.000200	0.00588	0.0516	<0.00500	<0.00500	<0.00500	<0.00500
	08/22/2014		0.132	<0.00500	0.0736	<0.0200	<0.00200	0.0137	<0.00500	<0.00500	<0.200	<0.00500	0.148	<0.000200	0.00597	0.0485	<0.00500	<0.00500	<0.00500	<0.00500
	02/25/2015		0.077 J	0.0043	0.073	0.16 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	0.0066 J	<0.000049	0.0027 J	<0.0049	<0.0074	<0.0028	0.0018 J	<0.0059
	08/28/2015		<0.0350	0.00478	0.0757	0.163	<0.000160	<0.000540	<0.000260	0.000922 J	<0.0141	<0.000240	0.00315 J	<0.0000490	0.00248 J	0.00109 J	0.00177 J	<0.000310	0.00203 J	<0.00256
	03/08/2016		0.00402 JB	0.00375	0.0711	0.152	<0.000160	0.0032	<0.000260	0.000933 J	<0.0150	<0.000240	0.000911 JB	<0.0000490	0.00219 J	0.000955 JB	0.00253	<0.000310	0.00187 J	<0.00256
	03/08/2016	FD	0.00986 JB	0.00457	0.071	0.154	<0.000160	0.00148 J	<0.000260	0.00123 JB	<0.0150	0.000299 JB	0.000664 JB	<0.0000490	0.00479 J	0.000797 JB	0.00175 J	0.000842 J	0.00197 J	0.00268 JB
	08/16/2016		0.00299 JB	0.00476	0.0734	0.175	<0.000160	0.00110 JB	<0.000260	<0.000520	<0.0150	<0.000240	0.00222 JB	<0.0000490	0.00263 J	0.000470 JB	0.00198 J	<0.000310	0.00223 J	<0.00256
	08/16/2016	FD	0.0189 JB	0.00479	0.0733	0.175	<0.000160	0.00110 JB	<0.000260	0.00371 JB	<0.0150	<0.000240	0.00228 JB	<0.0000490	0.00252 J	0.000495 JB	0.00210	<0.000310	0.00224 J	<0.00256
	02/09/2017		<0.0258	0.00428 J	0.0852	0.182	<0.000800	<0.00270	<0.00130	0.00675 J	<0.0750	<0.00120	0.0332	<0.0000490	0.00302 J	0.00266 J	0.00191 J	<0.00155	0.00227 J	<0.0128
	08/16/2017		0.0259 JB	0.00436	0.0735	0.159	<0.000160	0.00104 J	<0.000260	0.000947 J	<0.0150	<0.000240	0.000987 J	<0.0000490	0.00229 J	0.00289	0.00205	<0.000310	0.00216 J	0.00591 J
	08/16/2017	FD	0.0132 JB	0.00431	0.0727	0.158	<0.000160	0.00103 J	<0.000260	0.000862 J	<0.0150	<0.000240	0.000551 JB	<0.0000490	0.00218 J	0.00280	0.00196 J	<0.000310	0.00213 J	0.00628 J
	04/05/2018		<0.00515	0.00457	0.0723	0.184 J	<0.000160	0.000946 JB	<0.000260	0.00170 JB	<0.0150	<0.000240	0.000941 JB	<0.0000490	0.00218 JB	0.00870	0.00199 JB	<0.000310	0.00217 JB	0.0335
	10/01/2018		0.00689 J	0.00486	0.0819	0.154 J	<0.000160	0.000984 J	<0.000260	0.00169 J	<0.0150	<0.000240	0.000769 J	<0.0000490	0.00231 J	0.00755	0.00205	<0.000310	0.00223 J	0.0432
	10/01/2018	FD	0.00560 J	0.00421	0.0843	0.145 J	<0.000160	0.00111 J	<0.000260	0.00121 J	<0.0150	<0.000240	0.000398 J	<0.0000490	0.00243 J	0.00804	0.00218	<0.000310	0.00234 J	0.0449
	04/04/2019		<0.00515	0.00424	0.0850	0.181 J	<0.000160	0.00225	<0.000260	0.00232 J	<0.0150	<0.000240	0.000363 J	<0.0000490	0.00240 J	0.00473	0.00215	<0.000310	0.00223 J	0.0511
	10/24/2019		0.00831 J	0.00381	0.0903	0.171 J	<0.000160	0.00162 J	<0.000260	0.00273 J	<0.0150	<0.000240	0.00286 J	0.0000605 JB	0.00199 J	0.00417	0.00174 J	<0.000310	0.00208 J	0.0682
	10/24/2019	FD	<0.00515	0.00414	0.0871	0.174 J	<0.000160	0.00245	<0.000260	0.00275 J	<0.0150	<0.000240	0.000416 J	0.0000596 JB	0.00198 J	0.00409	0.00179 J	<0.000310	0.00206 J	0.0528
	06/18/2020		<0.0554	0.00408	0.0896	0.182 J	<0.000478	0.00542	<0.000477	0.00274 J	<0.0489	<0.00249	<0.00132	<0.000100	0.00208 J	0.00435	0.00207	<0.000513	<0.00754	0.0437
	10/08/2020		<0.0554	0.00417	0.0863	0.187 J	<0.000478	0.00718	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	0.000101 J	0.00223 J	0.00157 J	0.00186 J	<0.000513	<0.00754	0.0314
	04/15/2021		0.0293 JB	0.00423	0.0928	0.185 J	<0.000150	0.0145	<0.0000596	0.00327 J	<0.0281	<0.000849	0.00326 JB	<0.000100	0.00226 J	0.00207	0.00191 J	<0.0000700	0.00220 J	0.00496 JB
	09/16/2021		<0.0185	0.00428	0.0914	0.177 J	<0.000150	0.0166	<0.0000596	<0.00151	<0.0281	<0.000849	<0.000704	<0.000100	0.00228 J	0.00194 J	0.00199 J	<0.0000700	0.00203 J	0.0118 J
	04/14/2022		0.0333 J	0.00423	0.108	0.176 J	<0.000150	0.0229	<0.0000596	0.00178 J	<0.0281	<0.000849	0.00112 JB	<0.000100	0.00213 J	0.00325	0.00191 J	<0.0000700	0.00223 J	0.00903 J
	10/13/2022		<0.0185	0.00427	0.106	0.166 J	<0.000150	0.0279	<0.0000596	0.00244 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00208 J	0.00358	0.00175 J	<0.0000700	0.00216 J	0.0258
	03/23/2023		<0.0185	0.00410	0.112	0.184 J	0.000286 J	0.0314	0.000135 J	0.00529	<0.0281	<0.000849	0.0164	<0.000100	0.00202 J	0.00238	0.00196 J	<0.0000700	0.00209 J	0.0156 J
	10/05/2023		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	04/04/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]
	10/03/2024		--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]	--[1]

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
MW-32	06/15/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/2017	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		0.0212 JB	0.00332	0.188	0.564	<0.000160	<0.000540	0.00108 J	0.000684 J	<0.0150	<0.000240	0.536	<0.0000490	0.0141	0.00430	<0.000380	<0.000310	0.00888 J	0.00320 J
	04/05/2018		0.00732 JB	0.00281	0.244	0.253	<0.000160	0.000888 JB	0.000847 JB	0.00193 JB	<0.0150	<0.000240	0.772	<0.0000490	0.00489 J	0.0195	0.000443 JB	<0.000310	0.0166	0.0122 J
	10/01/2018		0.00589 J	0.00652	0.176	0.0321 J	<0.000160	<0.000540	<0.000260	0.000794 J	<0.0150	0.000283 J	0.0499	<0.0000490	0.00348 J	0.00357	<0.000380	<0.000310	0.00146 J	<0.00256
	10/01/2018	FD	0.0111 J	0.00619	0.179	0.0332 J	<0.000160	<0.000540	0.000302 J	0.00105 J	<0.0150	0.000273 J	0.0561	<0.0000490	0.00350 J	0.00382	<0.000380	<0.000310	0.00148 J	<0.00256
	04/04/2019		0.00526 JB	0.00198 J	0.384	0.184 J	<0.000160	<0.000540	0.00109 J	0.00918	<0.0150	<0.000240	0.349	<0.0000490	0.00259 J	0.00792	<0.000380	<0.000310	0.00751 J	0.0128 J
	10/24/2019		<0.00515	0.00353	0.341	0.188 J	<0.000160	<0.000540	0.000415 J	0.00397 J	<0.0150	<0.000240	0.278	0.0000640 JB	0.00197 J	0.0150	0.000492 J	<0.000310	0.00884 J	0.0379
	10/24/2019	FD	<0.00515	0.00342	0.345	0.213	<0.000160	<0.000540	0.000372 J	0.00418 J	<0.0150	<0.000240	0.262	0.0000644 JB	0.00209 J	0.0130	<0.000380	<0.000310	0.00883 J	0.0405
	06/18/2020		<0.0554	0.00323	0.454	0.207	<0.000478	<0.00149	<0.000477	0.00255 J	<0.0489	<0.00249	0.0616	<0.000100	0.00132 J	0.00557	<0.000657	<0.000513	0.00769 J	0.0147 J
	10/08/2020		<0.0554	0.00317	0.372	0.168 J	<0.000478	<0.00149	0.000936 J	<0.00250	<0.0489	<0.00249	0.207	<0.000100 [R]	0.00263 J	0.00427	<0.000657	<0.000513	<0.00754	0.0141 J
	10/08/2020	FD	<0.0554	0.00329	0.370	0.162 J	<0.000478	<0.00149	0.000654 J	0.00316 J	<0.0489	<0.00249	0.160	0.000106 J	0.00260 J	0.00408	<0.000657	<0.000513	<0.00754	0.103
	04/15/2021		0.284	0.00395	0.440	0.142 J	<0.000150	<0.00124	<0.0000596	0.00584	<0.0281	<0.000849	0.00436 JB	<0.000100	0.00131 J	0.00425	0.000466 J	<0.0000700	0.00609 J	0.0241 J
	04/15/2021	FD	<0.0185	0.00421	0.426	0.141 J	<0.000150	<0.00124	0.0000794 J	0.00591 B	<0.0281	<0.000849	0.0111	<0.000100	0.00119 J	0.00435	0.000932 J	<0.0000700	0.00589 J	0.0228 J
	09/16/2021		<0.0185	0.00416	0.380	0.170 J	<0.000150	<0.00124	0.000141 J	0.00386 J	<0.0281	<0.000849	0.0402	<0.000100	0.00714	0.00418	0.000943 J	<0.0000700	0.00547 J	0.0196 J
	09/16/2021	FD	<0.0185	0.00404	0.405	0.160 J	<0.000150	<0.00124	0.000155 J	0.00411 J	<0.0281	<0.000849	0.0433	<0.000100	0.00725	0.00415	0.000731 J	<0.0000700	0.00576 J	0.0188 J
	04/14/2022		<0.0185	0.00266	0.337	0.226	<0.000150	<0.00124	0.00102 J	0.00446 J	<0.0281	<0.000849	0.198	<0.000100	0.00159 JB	0.00345 B	0.000501 J	<0.0000700	0.00889 J	0.0278
	04/14/2022	FD	<0.0185	0.00291	0.316	0.230	<0.000150	<0.00124	0.000849 J	0.00388 J	<0.0281	<0.000849	0.177	<0.000100	0.00146 J	0.00320	0.00148 J	<0.0000700	0.00823 J	0.0281
	10/13/2022		<0.0185	0.00277	0.310	0.220	<0.000150	<0.00124	0.000459 J	0.00687	<0.0281	<0.000849	0.105	<0.000100	0.00140 J	0.00248	0.000444 J	<0.0000700	0.00895 J	0.0461
	10/13/2022	FD	<0.0185	0.00284	0.312	0.220	<0.000150	<0.00124	0.000476 J	0.00710	<0.0281	<0.000849	0.108	<0.000100	0.00136 J	0.00240	0.000632 J	<0.0000700	0.00910 J	0.0483
	03/23/2023		<0.0185	0.00281	0.301	0.202	<0.000150	<0.00124	0.000352 J	0.00697	<0.0281	0.00230	0.0784	<0.000100	0.00135 J	0.00222	0.000645 J	<0.0000700	0.00785 J	0.0299
	03/23/2023	FD	<0.0185	0.00282	0.290	0.202	<0.000150	<0.00124	0.000330 J	0.00520	<0.0281	<0.000849	0.0768	<0.000100	0.00140 J	0.00204	0.000662 J	<0.0000700	0.00771 J	0.0290
	10/05/2023		<0.0185	0.00420	0.185	0.110 J	<0.000150	<0.00124	0.000200 J	0.00767	<0.0281	<0.000849	0.0402	<0.000100	0.00433 J	0.00177 J	0.000773 J	<0.0000700	0.00446 J	0.0194 J
	10/05/2023	FD	<0.0185	0.00434	0.183	0.114 J	<0.000150	<0.00124	0.000225 J	0.00761	<0.0281	<0.000849	0.0424	<0.000100	0.00451 J	0.00176 J	0.000573 J	<0.0000700	0.00472 J	0.0208 J
	04/04/2024		<0.0185	0.00330	0.352	0.169 J	<0.000150	<0.00124	0.000640 J	0.00602	<0.0281	<0.000849	0.114	<0.000100 [R]	0.00124 J	0.00295	0.000817 J	<0.0000700	0.00609 J	0.0415
	04/04/2024	FD	<0.0185	0.00342	0.367	0.169 J	<0.000150	<0.00124	0.000686 J	0.00738	<0.0281	<0.000849	0.119	<0.000100 [R]	0.00124 J	0.00286	0.000759 J	<0.0000700	0.00626 J	0.0429
	10/03/2024		<0.0185	0.0114	0.133	0.0286 J	<0.000150	<0.00124	0.000929 J	0.00199 J	0.0395 J	<0.000849	0.0829	<0.0000700	0.00286 J	0.00258	<0.000300	<0.0000700	0.00131 J	0.0121 J
	10/03/2024	FD	<0.0185	0.0119	0.130	0.0319 J	<0.000150	<0.00124	0.00103 J	0.00182 J	0.0449 J	<0.000849	0.0870	<0.0000700	0.00318 J	0.00279	0.000326 J	<0.0000700	0.00133 J	0.0120 J
MW-33	06/15/2017		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/2017		0.0123 JB	0.00377	0.218	0.447	<0.000160	<0.000540	0.000834 J	0.00129 J	0.0373 J	<0.000240	0.985	<0.0000490	0.00531	0.000613 J	<0.000380	<0.000310	0.00325 J	0.00358 J
	04/05/2018		<0.00515	0.0104	0.380	0.304	<0.000160	0.00155 JB	<0.000260	0.00292 JB	0.0351 J	<0.000240	1.77	<0.0000490	0.000146 JB	0.00170 JB	<0.000380	<0.000310	0.00269 J	0.00546 J
	10/01/2018		0.00613 J	0.00411	0.481	0.194 J	<0.000160	<0.000540	<0.000260	<0.000520	0.0186 J	<0.000240	1.79	<0.0000490	0.000602 J	0.00312	<0.000380	<0.000310	0.00829 J	<0.00256
	04/04/2019		0.00865 JB	0.00179 J	0.476	0.150 J	<0.000160	<0.000540	<0.000260	0.00411 J	0.0299 J	<0.000240	1.39	<0.0000490	0.00158 J	0.00157 JB	<0.000380	<0.000310	0.0131	0.00566 J
	10/24/2019		<0.00515	0.00228	0.496	0.158 J	<0.000160	<0.000540	<0.000260	<0.000520	0.0209 J	<0.000240	1.02	<0.0000490	0.00183 J	0.00323	<0.000380	<0.000310	0.0167	0.00581 J
	06/18/2020		<0.0554	0.00202	0.500	0.163 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.816	<0.000100	0.00268 J	0.00409	<0.000657	<0.000513	0.0241	<0.00996
	10/08/2020		<0.0554	0.00322	0.423	0.167 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.699	<0.000100 [R]	0.00280 J	0.00164 J	<0.000657	<0.000513	0.0236	<0.00996
	10/08/2020	FD	<0.0554	0.00316	0.411	0.167 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.691	0.000121 J	0.00277 J	0.00111 J	<0.000657	<0.000513	0.0233	0.0171 J
	04/15/2021		<0.0185	0.00297	0.471	0.159 J	<0.000150	<0.00124	0.000108 J	<0.00151	0.526	<0.000849	0.701	<0.000100	0.00330 J	0.00198 J	<0.000300	<0.0000700	0.0322	0.00441 JB
	04/15/2021	FD	<0.0185	0.00187 J	0.441	0.159 J	<0.000150	<0.00124	0.0000890 J	0.00175 JB	<0.0281	<0.000849	0.685	<0.000100	0.00289 J	0.00178 J	<0.000300	<0.0000700	0.0308	<0.00302
	09/16/2021		<0.0185	0.00293	0.409	0.168 J	<0.000150	<0.00124	0.0000660 J	<0.00151	<0.0281	<0.000849	0.621	<0.000100	0.00267 J	0.00157 J	0.000473 J	<0.0000700	0.0314	<0.00302
	09/16/2021	FD	0.389	0.00297	0.436	0.165 J	<0.000150	<0.00124	0.000123 J	<0.00151	0.263 B	<0.000849	0.645	<0.000100	0.00266 JB	0.00234	<0.000300	<0.0000700	0.0328	<0.00302
	04/14/2022		<0.0185	0.00654	0.470	0.161 J	0.000220 J	<0.00124	0.000265 J	<0.00151	1.99	<0.000849	0.897	<0.000100	0.00278 J	0.00186 J	0.000394 J	<0.0000700	0.0353	<0.00302
	04/14/2022	FD	0.0312 J	0.00602	0.477	0.156 J	<0.000150	<0.00124	0.0000782 J	<0.00151	1.99	<0.000849	0.884	<0.000100	0.00259 J	0.00168 J	0.000665 J	<0.0000700	0.0355	0.00327 J
	10/13/2022		<0.0185	0.00677	0.557	0.143 J	<0.000150	<0.00124	0.0000730 J	<0.00151	2.01	<0.000849	0.973	<0.000100	0.00243 J	0.00209	<0.000300	<0.0000700	0.0424	0.00914 J
	10/13/2022	FD	<0.0185	0.00675	0.547	0.151 J	<0.000150	<0.00124	0.0000802 J	<0.00151	2.02	<0.000849	0.973	<0.000100	0.00237 J	0.00219	<0.000300	<0.0000700	0.0438	0.0133 J
	03/23/2023		<0.0185	0.00603	0.557	0.163 J	<0.000150	<0.00124	0.0000794 J	0.00513	1.98	<0.000849	0.992	<0.000100	0.00220 J	0.00174 J	<0.000300	<0.0000700	0.0485	0.00319 J
	03/23/2023	FD	<0.0185	0.00594	0.554	0.158 J	<0.000150	<0.00124	0.0000761 J	<0.00151	1.87	<0.000849	0.974	<0.000100	0.00213 J	0.00527	<0.000300	<0.0000700	0.0472	<0.00302
	10/05/2023		<0.0185	0.00483	0.566	0.157 J	<0.000150	0.00128 J	0.0000684 J	<0.00151	1.71	<0.000849	0.947	<0.000100	0.00215 J	0.00157 J	<0.000300	<0.0000700	0.0491	<0.00302
	10/05/2023	FD	<0.0185	0.00554	0.600	0.155 J	<0.000150	<0.00124	0.0000859 J	<0.00151	1.79	<0.000849	0.995	<0.000100	0.00212 J	0.00113 J	<0.000300	<0.0000700	0.0558	<0.00302
	04/04/2024		<0.0185	0.00402	0.717	0.166 J	<0.000150	<0.00124	0.0000959 J	<0.00151	1.59	<0.000849	0.882	<0.000100 [R]	0.00210 J	0.00102 J	<0.000300	<0.0000700	0.0611	<0.00302
	04/04/2024	FD	<0.0185	0.00376	0.719	0.165 J	<0.000150	<0.00124	0.0000981 J	<0.00151	1.58	<0.000849	0.873	<0.000100 [R]	0.00230 J	0.00101 J	<0.000300	<0.0000700	0.0598	<0.00302
	10/03/2024		<0.0160	0.00395	0.691	0.148 J	<0.000120	<0.000900	0.000167 J	<0.000700	1.28	<0.000500	0.704	<0.0000700	0.00203 J	0.00128 J	<0.000250	<0.000110	0.0600	<0.00400

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
North Well	06/18/2009		<0.0100	0.00536	0.0997	0.151	<0.00200	0.0104	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	<0.00500
	01/14/2010		<0.0100	<0.00500	0.107	0.172	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00134	0.00920
	08/24/2010		<0.0100	0.00552	0.100	0.147	<0.00200	<0.00500	<0.00500	0.00856	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.0161	<0.00500	<0.00500	<0.00500	<0.00500
	03/03/2011		<0.0100	0.00503	0.0968	0.159	<0.00200	0.0199	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0695
	07/20/2011		<0.0100	<0.00500	0.106	0.142	<0.00200	0.0140	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	02/02/2012		0.0126	<0.00500	0.0944	0.132	<0.00200	0.0145	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	07/30/2012		<0.0100	0.00523	0.106	0.159	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0178
	02/19/2013		<0.0100	0.00693	0.0998	0.162	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	0.00537	<0.00500	<0.00500	<0.00500	0.00873
	08/22/2014		0.0170	0.00530	0.106	<0.0200	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0119
	12/17/2014		<0.0100	0.00579	0.0985	0.121	<0.00100	0.00101	<0.00100	0.00108	0.0180	<0.00100	<0.00100	<0.00020	0.00346	<0.00100	0.00359	<0.00100	0.00179	0.00315
	03/09/2015		<0.035	0.0055	0.11	0.15	<0.00070	<0.0014	<0.0023	0.012 J	<0.014	0.00062 J	<0.0012	<0.000049	0.0032 J	<0.0049	0.0097 J	<0.0028	0.0016 J	0.015 J
	05/19/2015		<0.035	0.0060	0.11	0.14 J	<0.00070	0.0018 J	<0.0023	0.015 J	<0.014	0.00074 J	<0.0012	<0.000049	0.0042 J	<0.0049	0.0033	<0.0028	0.0018 J	0.017 J
	08/28/2015		<0.0350	0.00551	0.103	0.155	<0.000160	0.000676 J	<0.000260	0.00121 J	<0.0141	<0.000240	0.000878 J	<0.0000490	0.00306 J	<0.000350	0.00332	<0.000310	0.00156 J	<0.00256
	12/17/2015		<0.0350	0.00572	0.104	0.155 J	<0.000160	0.00103 J	<0.000260	0.00216 J	0.0158 J	<0.000240	0.000476 J	<0.0000490	<0.00160	0.000388 J	0.00342	<0.000310	0.00160 J	0.00427 J
	03/10/2016		0.00383 J	0.00557	0.108	0.138	<0.000160	0.00106 J	<0.000260	0.00183 JB	0.0200 J	<0.000240	0.000748 J	<0.0000490	0.00307 JB	0.000364 JB	0.00342	<0.000310	0.00161 J	0.00420 JB
	05/25/2016		<0.00200	0.00451	0.104	0.166	<0.000160	<0.000540	<0.000260	0.0141	<0.0150	0.000323 J	0.00281 J	<0.0000490	0.00272 J	0.000909 J	0.00365	<0.000310	0.00159 J	0.0101 J
	08/18/2016		0.00295 JB	0.00548	0.111	0.157	<0.000160	0.00139 JB	<0.000260	0.00146 JB	<0.0150	<0.000240	0.00101 JB	0.0000503 JB	0.00293 J	0.00103 JB	0.00367	<0.000310	0.00176 J	0.00285 JB
	12/08/2016		0.00412 JB	0.00544	0.122	0.127	<0.000160	0.00108 J	<0.000260	0.00236 J	<0.0150	<0.000240	0.000506 JB	<0.0000490	0.00281 J	<0.000350	0.00333	<0.000310	0.00177 J	0.00374 J
	02/07/2017		<0.0258	0.00615 J	0.143	0.163	<0.000800	<0.00270	<0.00130	0.00320 J	<0.0750	<0.00120	<0.00125	<0.0000490	0.00293 J	<0.00175	0.00336	<0.00155	0.00188 J	<0.0128
	05/31/2017		<0.00515	0.00559	0.127	0.149	<0.000160	0.00101 J	<0.000260	0.00435 J	<0.0150	<0.000240	0.000388 JB	<0.0000490	0.00280 J	0.000572 J	0.00322	<0.000310	0.00183 J	0.00513 JB
	08/17/2017		0.0185 JB	0.00569	0.113	0.142	<0.000160	0.00110 J	<0.000260	0.00355 J	<0.0150	0.000261 J	0.00121 JB	<0.0000490	0.00282 J	0.000633 J	0.00347	<0.000310	0.00177 J	0.00834 J
	12/14/2017		0.00620 JB	0.00598	0.109	0.135	<0.000160	0.00142 J	<0.000260	0.00253 JB	0.0491 J	0.000679 J	0.00115 J	<0.0000490	0.00282 J	0.000606 J	0.00355	<0.000310	0.00183 J	0.00679 J
	02/23/2018		0.00601 JB	0.00621	0.109	0.189 J	<0.000160	0.00134 JB	<0.000260	0.00292 J	<0.0150	<0.000240	0.000796 JB	<0.0000490	0.00304 J	0.000612 JB	0.00371	<0.000310	0.00176 J	0.00383 J
	04/05/2018		0.0183 JB	0.00657	0.118	0.156 J	0.000910 JB	0.000849 JB	0.000894 JB	0.0135	0.0237 J	0.00120 JB	0.00467 J	<0.0000490	0.00380 J	0.00244 B	0.00397	<0.000310	0.00270 J	0.0298
	07/31/2018		0.00795 JB	0.00596	0.104	0.169 J	0.000172 JB	0.00117 J	<0.000260	0.00470 J	<0.0150	0.000793 J	0.000983 J	<0.0000490	0.00283 J	0.000634 J	0.00362	<0.000310	0.00173 J	0.00798 J
	10/01/2018		0.00570 J	0.00632	0.112	0.128 J	<0.000160	0.00116 J	<0.000260	0.00233 J	<0.0150	0.000674 J	0.00161 J	<0.0000490	0.00302 J	0.000651 J	0.00409	<0.000310	0.00177 J	0.00386 J
	01/23/2019		0.0108 J	0.00621	0.110	0.152	<0.000160	0.00139 J	<0.000260	0.00259 JB	<0.0150	0.000378 J	0.00193 J	<0.0000490	0.00293 J	0.00114 JB	0.00393	<0.000310	0.00184 J	0.00809 J
	04/04/2019		0.00882 JB	0.00599	0.118	0.169 J	<0.000160	0.00137 J	<0.000260	0.0129	0.0185 J	0.000607 J	0.00509	<0.0000490	0.00295 J	0.00101 JB	0.00375	<0.000310	0.00194 J	0.0199 J
	07/11/2019		<0.00515	0.00582	0.111	0.146 J	<0.000160	0.00162 JB	<0.000260	0.00322 JB	<0.0150	0.000313 JB	0.00042 J	<0.0000490	0.00303 J	0.000416 J	0.00414	<0.000310	0.00173 J	0.006 J
	10/24/2019		<0.00515	0.00483	0.106	0.149 J	<0.000160	0.00115 J	<0.000260	0.00265 J	<0.0150	<0.000240	0.0172	0.0000637 JB	0.00279 J	0.000441 J	0.00306	<0.000310	0.00148 J	0.0105 J
	01/15/2020		0.0222 JB	0.00611	0.105	0.152 J	<0.000160	0.00159 JB	<0.000260	0.0459	<0.0150	0.00257	0.00113 JB	<0.0000490	0.00298 J	0.00184 JB	0.00381	<0.000310	0.00195 J	0.0282
	06/18/2020		<0.0554	0.00601	0.106	0.150 J	<0.000478	0.00178 J	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00297 J	0.000965 J	0.00412	<0.000513	<0.00754	<0.00996
	08/19/2020		<0.0554	0.00592	0.0976	0.150 J	<0.000478	0.00178 J	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00284 J	<0.000952	0.00352	<0.000513	<0.00754	<0.00996
	10/08/2020		<0.0554	0.00637	0.102	0.153 J	<0.000478	0.00233	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00286 J	<0.000952	0.00316	<0.000513	<0.00754	<0.00996
	01/28/2021		<0.0185	0.00505	0.106	0.143 J	<0.000150	0.00141 J	0.000118 J	0.00209 J	<0.0281	<0.000849	0.00175 J	<0.000100	0.00309 J	0.00121 J	0.00361	<0.0000700	0.00171 J	0.0109 JB
	04/15/2021		<0.0185	0.00634	0.106	0.143 J	<0.000150	0.00227 B	0.000115 J	0.0723	<0.0281	0.00354 B	0.000746 J	<0.000100	0.00314 J	0.00231	0.00462	<0.0000700	0.00161 J	0.0519
	07/15/2021		<0.0185	0.00518	0.102	0.137 J	<0.000150	0.00219	0.0000724 J	0.00672 B	<0.0281	<0.000849	0.00522 B	<0.000100	0.00282 J	0.00227 B	0.00332	<0.0000700	0.00151 J	0.0140 JB
	09/16/2021		<0.0185	0.00522	0.110	0.142 J	<0.000150	0.00205	0.000107 J	0.0439	<0.0281	0.00141 J	0.000928 J	<0.000100	0.00277 JB	0.00186 J	0.00373	<0.0000700	0.00162 J	0.0295
	01/20/2022		<0.0185	0.00319	0.107	0.150 J	<0.000150	0.00164 J	0.000177 J	0.00482 J	0.105	<0.000849	0.00420 J	<0.000100	0.00298 J	0.00103 J	0.00369	<0.0000700	0.00199 J	0.0148 J
	04/14/2022		<0.0185	0.00555	0.118	0.143 J	<0.000150	0.00284	<0.0000596	0.00334 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00281 J	0.000873 J	0.00392	<0.0000700	0.00183 J	0.00638 J
	07/14/2022		<0.0185	0.00557	0.108	0.148 J	<0.000150	0.00217	0.0000720 J	0.00467 J	<0.0281	<0.000849	0.00179 J	<0.000100	0.00281 J	0.00152 J	0.00401	<0.0000700	0.00186 J	0.0128 J
	10/13/2022		<0.0185	0.00579	0.111	0.133 J	<0.000150	0.00182 J	0.000101 J	0.00300 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00282 J	0.000828 J	0.00390	<0.0000700	0.00164 J	0.0203 J
	01/26/2023		<0.0185	0.00196	0.0829	0.131	<0.000150	0.00125	0.00234	0.00448	0.587	<0.000849	0.0460	<0.000100	0.00295	0.00117	0.00340	<0.0000700	0.00125	0.0227
	03/23/2023		<0.0185	0.00586	0.108	0.142 J	<0.000150	0.00244	<0.0000596	0.00330 J	<0.0281	<0.000849	0.00157 J	<0.000100	0.00262 J	<0.000816	0.00346	<0.0000700	0.00174 J	0.00994 J
	07/27/2023		<0.0185	0.00589	0.105	0.170 JB	<0.000150	0.00241	0.000145 J	0.00563	<0.0281	<0.000849	0.00168 J	<0.000100	0.00266 JB	0.00193 J	0.00369	<0.0000700	0.00161 J	0.0217 J
	10/05/2023		<0.0185	0.00584	0.106	0.142 J	<0.000150	0.00272	0.0000681 J	0.00375 J	<0.0281	<0.000849	0.000971 J	<0.000100	0.00275 J	0.00145 J	0.00344	<0.0000700	0.00166 J	0.0118 J
	01/25/2024		<0.0185	0.00630	0.109	0.151 J	<0.000150	0.00310	0.0000637 J	0.00276 J	0.104	<0.000849	0.00235 J	<0.000100	0.00295 J	0.000817 J	0.00341	<0.0000700	0.00190 J	0.0156 J
	04/04/2024		<0.0185	0.00653	0.109	0.148 J	<0.000150	0.00310	0.0000658 J	0.00289 J	<0.0281	<0.000849	<0.000704	<0.000100 [R]	0.00304 J	0.00102 J	0.00371	<0.0000700	0.00186 J	0.00966 J
	07/18/2024		<0.0185	0.00592	0.105	0.139 J	<0.000150	0.00238	<0.0000596	<0.00151	<0.0281	<0.000849	0.000727 J	<0.000100	0.00272 J	<0.000816	0.00360	<0.0000700	0.00156 J	0.00519 J
	10/03/2024		<0.0185	0.00563	0.104	0.132 J	<0.000150	0.00272	0.000194 J	0.00581	<0.0281	<0.000849	0.00170 J	<0.0000700	0.00276 J	0.00200 J	0.00344	<0.0000700	0.00168 J	0.0234 J

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
South Well	06/22/2009		<0.0100	<0.00500	0.154	0.189	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	<0.00500
	01/14/2010		0.0176	<0.00500	0.138	0.229	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0224	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00236	0.0207
	08/24/2010		<0.0100	<0.00500	0.172	0.186	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00576	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0329
	03/03/2011		<0.0100	<0.00500	0.147	0.261	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0226	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	07/20/2011		<0.0100	<0.00500	0.157	0.195	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00777
	02/02/2012		<0.0100	<0.00500	0.117	0.165	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00777
	07/30/2012		<0.0100	<0.00500	0.103	0.160	<0.00200	0.0111	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0401
	02/19/2013		<0.0100	0.00576	0.149	0.197	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0172
	02/28/2014		<0.0100	<0.00500	0.131	0.195	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00571	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0155
	08/22/2014		<0.0100	<0.00500	0.136	0.144	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.00670	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0159
	08/22/2014	FD	0.0689	<0.00500	0.145	<0.0200	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	0.0103	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0214
	12/17/2014		<0.0100	0.00431	0.125	0.159	<0.00100	0.00178	<0.00100	0.00128	0.0277	<0.00100	0.00422	<0.00020	0.00242	<0.00100	0.00387	<0.00100	0.00227	0.0163
	12/17/2014	FD	<0.0100	0.00422	0.126	0.162	<0.00100	0.00179	<0.00100	0.00136	0.0226	<0.00100	0.00409	<0.00020	0.00203	<0.00100	0.00359	<0.00100	0.00217	0.0151
	03/09/2015		<0.035	0.0040	0.14	0.20	<0.00070	0.0015 J	<0.0023	0.032	<0.014	0.0031	0.0046 J	<0.000049	0.0020 J	<0.0049	0.012 J	<0.0028	0.0021 J	0.049 J
	03/09/2015	FD	0.037 J	0.0042	0.14	0.20	<0.00070	<0.0014	<0.0023	0.019 J	<0.014	0.0026	0.0030 J	<0.000049	0.0021 J	<0.0049	0.015 J	<0.0028	0.0021 J	0.025 J
	05/19/2015		<0.035	0.0023	0.14	0.18 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	0.0088 J	<0.000049	0.0022 J	<0.0049	0.0034	<0.0028	0.0021 J	<0.0059
	05/19/2015	FD	<0.035	0.0024	0.14	0.18 J	<0.00070	<0.0014	<0.0023	<0.0053	<0.014	<0.00024	0.0081 J	<0.000049	0.0023 J	<0.0049	0.0032	<0.0028	0.0021 J	<0.0059
	08/28/2015		<0.0350	0.00436	0.137	0.194	<0.000700	0.00156 J	<0.00230	<0.00530	0.0168 J	0.000477 J	0.00776 J	<0.0000490	0.00204 J	<0.00490	0.00360	<0.00280	0.00214 J	0.00662 J
	08/28/2015	FD	<0.0350	0.00430	0.133	0.197	<0.000160	0.00127 J	<0.000260	0.00376 J	<0.0141	<0.000240	0.00654	0.0000599 J	0.00199 J	<0.000350	0.00328	<0.000310	0.00205 J	0.00638 J
	12/17/2015		<0.0350	0.00426	0.138	0.235	<0.000160	0.00205	<0.000260	0.00257 J	<0.0141	<0.000240	0.00564	<0.0000490	<0.00160	0.000645 J	0.00334	<0.000310	0.00238 J	0.00388 J
	12/17/2015	FD	<0.0350	0.00425	0.136	0.193 J	<0.000160	0.00160 J	<0.000260	0.00250 J	<0.0141	<0.000240	0.00546	<0.0000490	<0.00160	0.000442 J	0.00343	<0.000310	0.00238 J	0.00430 J
	03/10/2016		0.00624 J	0.00425	0.118	0.211	<0.000160	0.00135 J	<0.000260	0.00864	<0.0150	0.000256 J	0.00332 JB	<0.0000490	0.00204 JB	0.000524 JB	0.00354	<0.000310	0.00230 J	0.0119 JB
	05/25/2016		<0.00200	0.00433	0.124	0.214	<0.000160	0.00139 J	<0.000260	0.00384 J	<0.0150	<0.000240	0.00551	<0.0000490	0.00196 J	<0.000350	0.00374	<0.000310	0.00249 J	0.00351 J
	05/25/2016	FD	<0.00200	0.00459	0.125	0.224	<0.000160	0.00196 J	<0.000260	0.00445 J	<0.0150	<0.000240	0.00535	<0.0000490	0.00194 J	<0.000350	0.00343	<0.000310	0.00247 J	0.00394 J
	08/18/2016		<0.00200	0.00419	0.134	0.224	<0.000160	0.00138 J	<0.000260	0.00444 JB	<0.0150	<0.000240	0.00250 J	0.0000764 JB	0.00188 J	0.00106 JB	0.00326	<0.000310	0.00257 J	0.00833 JB
	08/18/2016	FD	0.00377 JB	0.00370	0.137	0.233	<0.000160	0.00165 J	<0.000260	0.00485 JB	<0.0150	<0.000240	0.00270 J	0.0000788 JB	0.00201 J	0.00128 JB	0.00318	<0.000310	0.00262 J	0.00936 JB
	12/08/2016		0.00439 JB	0.00310	0.120	0.188	<0.000160	0.000590 J	<0.000260	0.00192 J	<0.0150	<0.000240	0.00796	<0.0000490	0.00181 J	<0.000350	0.00373	<0.000310	0.00257 J	0.00418 J
	12/08/2016	FD	0.00364 JB	0.00313	0.120	0.194	<0.000160	0.000601 J	<0.000260	0.00215 J	<0.0150	0.000317 J	0.00673	<0.0000490	0.00184 J	<0.000350	0.00307	<0.000310	0.00253 J	0.00420 J
	02/07/2017		0.00532 J	0.00343	0.117	0.223	<0.000160	0.000753 J	<0.000260	0.00340 J	<0.0150	0.000385 JB	0.00227 J	<0.0000490	0.00190 J	<0.000350	0.00337	<0.000310	0.00229 J	0.00405 J
	02/07/2017	FD	<0.0258	0.00424 J	0.140	0.228	<0.000800	<0.00270	<0.00130	0.00352 J	<0.0750	<0.00120	0.00308 J	<0.0000490	0.00217 J	<0.00175	0.00338	<0.00155	0.00266 J	<0.0128
	05/31/2017		<0.00515	0.00327	0.144	0.209	<0.000160	0.000988 J	<0.000260	0.00419 J	<0.0150	<0.000240	0.00311 J	0.0000506 J	0.00174 J	<0.000350	0.00303	<0.000310	0.00235 J	0.00458 JB
	05/31/2017	FD	0.00778 JB	0.00326	0.139	0.197	<0.000160	0.00106 J	<0.000260	0.00419 J	<0.0150	<0.000240	0.00315 J	0.0000515 J	0.00163 J	0.000376 J	0.00338	<0.000310	0.00236 J	0.00426 JB
	08/17/2017		0.00883 JB	0.00392	0.125	0.191	<0.000160	0.00187 J	<0.000260	0.00229 J	<0.0150	<0.000240	0.00253 JB	<0.0000490	0.00183 J	<0.000350	0.00353	<0.000310	0.00230 J	0.00365 J
	08/17/2017	FD	0.00607 JB	0.00413	0.127	0.191	<0.000160	0.00204	<0.000260	0.00364 J	<0.0150	<0.000240	0.00182 JB	<0.0000490	0.00185 J	<0.000350	0.00338	<0.000310	0.00232 J	0.00339 J
	12/14/2017		<0.00515	0.00417	0.125	0.176	<0.000160	0.00221	<0.000260	0.00500 B	<0.0150	<0.000240	0.00223 J	<0.0000490	0.00180 J	0.000406 J	0.00357	<0.000310	0.00237 J	0.00659 J
	12/14/2017	FD	<0.00515	0.00417	0.129	0.184	<0.000160	0.00223	<0.000260	0.00526 B	<0.0150	0.000263 J	0.00259 J	<0.0000490	0.00185 J	0.000357 J	0.00356	<0.000310	0.00244 J	0.00474 J
	02/23/2018		0.00900 JB	0.00419	0.143	0.258	<0.000160	0.00265 B	<0.000260	0.00656	<0.0150	0.000278 JB	0.00225 J	<0.0000490	0.00191 J	0.000488 JB	0.00453	<0.000310	0.00245 J	0.00958 J
	02/23/2018	FD	0.0243 JB	0.00603	0.145	0.222	0.00194	0.00432 B	0.00187 J	0.00829	0.0231 J	0.00195 J	0.00373 J	0.0000945 J	0.00411 J	0.00243	0.00571	0.000372 J	0.00424 J	0.0115 J
	04/05/2018		0.0142 JB	0.00434	0.140	0.202	<0.000160	0.00311 B	<0.000260	0.00598	<0.0150	<0.000240	0.00245 JB	<0.0000490	0.00184 JB	<0.000350	0.00335 B	<0.000310	0.00252 J	0.00408 J
	07/31/2018		0.0109 JB	0.00377	0.130	0.239	0.000179 JB	0.00186 J	<0.000260	0.00235 JB	<0.0150	0.000264 J	0.00101 J	<0.0000490	0.00208 J	0.000389 J	0.00413	<0.000310	0.00220 J	0.0461
	07/31/2018	FD	<0.00515	0.00401	0.133	0.203	0.000172 JB	0.00180 J	<0.000260	0.00179 JB	<0.0150	<0.000240	0.00143 J	<0.0000490	0.00197 J	0.000463 J	0.00326	<0.000310	0.00219 J	0.0262
	10/01/2018		<0.00515	0.00431	0.138	0.177 J	<0.000160	0.00169 J	<0.000260	0.00177 J	<0.0150	<0.000240	0.00219 J	0.0000509 J	0.00219 J	0.00308	0.00386	<0.000310	0.00238 J	0.148
	01/23/2019		0.0343 J	0.00407	0.140	0.204	<0.000160	0.00230	<0.000260	0.00274 JB	<0.0150	<0.000240	0.00228 J	<0.0000490	0.00209 J	0.00157 JB	0.00348	<0.000310	0.00241 J	0.230
	01/23/2019	FD	0.00963 J	0.00424	0.136	0.197	<0.000160	0.00199 J	<0.000260	0.00225 JB	<0.0150	<0.000240	0.00187 J	<0.0000490	0.00202 J	0.00131 JB	0.00396	<0.000310	0.00234 J	0.0889
	04/04/2019		<0.00515	0.00421	0.140	0.612	<0.000160	0.00110 J	<0.000260	0.00172 J	<0.0150	<0.000240	0.00382 J	<0.0000490	0.00226 J	0.000640 JB	0.00325	<0.000310	0.00238 J	0.0510
	07/11/2019		<0.00515	0.00375	0.126	0.198 J	<0.000160	0.00178 JB	<0.000260	0.00191 JB	<0.0150	0.00054 JB	0.00269 J	<0.0000490	0.00229 J	0.000881 J	0.00384	<0.000310	0.00223 J	0.101
	10/24/2019		<0.00515	0.00405	0.119	0.190 J	<0.000160	0.000880 J	<0.000260	0.000922 J	<0.0150	<0.000240	0.00155 J	0.0000822 JB	0.00212 J	0.00157 J	0.00343	<0.000310	0.00188 J	0.0189 J
	01/15/2020		0.00859 JB	0.00287	0.122	0.184 J	<0.000160	0.000722 JB	<0.000260	0.00316 J	<0.0150	0.000365 JB	0.0101	<0.0000490	0.00215 J	0.0106	0.00482	<0.000310	0.00245 J	0.0942
	06/18/2020		<0.0554	0.00430	0.116	0.183 J	<0.000478	0.00168 J	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00210 J	<0.000952	0.00360	<0.000513	<0.00754	0.0142 J
	08/19/2020		<0.0554	0.00419	0.105	0.190 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.00168 J	<0.000100	0.00206 J	<0.000952	0.00417	<0.000513	<0.00754	0.0193 J
	08/19/2020	FD	<0.0554	0.00419	0.105	0.192 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.00145 J	<0.000100	0.00200 J	<0.000952	0.00394	<0.000513	<0.00754	0.0194 J
	10/08/2020		<0.0554	0.00324	0.108	0.188 J	<0.000478	<0.00149	<0.000477	<0.00250	<0.0489	<0.00249	0.00949	<0.000100	0.00225 J	0.00472	0.00400	<0.000513	<0.00754	0.0494
	10/08/2020	FD	<0.0554	0.00254	0.107	0.192 J	<0.000478	<0.00149	<0.000477	0.00292 J	<0.0489	<0.00249	0.0173	0.000114 J	0.00221 J	0.0201	0.00387	<0.000513	<0.00754	0.0868
	01/28/2021		<0.0185	0.00420	0.116	0.178 J	<0.000150	0.00173 J	<0.0000596	<0.00151	<0.0281	0.00152 J	0.00208 J	<0.000100	0.00218 J	0.000963 J	0.00367	<0.0000700	0.00241 J	0.0278 B
	01/28/2021	FD	<0.0185	0.00397	0.116	0.180 J	<0.000150	0.00125 J	<0.0000596	0.00189 J	<0.0281	<0.000849	0.00184 J	<0.000100	0.00219 J	<0.000816	0.00372	<0.0000700	0.00222 J	0.0183 JB
	04/15/2021		<0.0185	0.00233	0.112	0.177 J	<0.000150	0.00184 JB	0.000201 J	0.00881 B	0.0389 J	<0.000849	0.0174	<0.000100	0.00211 J	0.0334	0.00409	<0.0000700	0.00217 J	0.0951
	04/15/2021	FD	<0.0185	0.00391	0.109	0.183 J	<0.000150	<0.00124	<0.0000596	0.00264 JB	<0.0281	<0.000849	0.00545	<0.000100	0.00192 J	0.00192 J	0.00350	<0.0000700	0.00205 J	0.0379

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
South Well	07/15/2021		<0.0185	0.00407	0.106	0.173 J	<0.000150	0.00151 J	<0.0000596	0.00206 JB	<0.0281	<0.000849	0.00275 JB	0.000102 J	0.00227 J	0.00113 JB	0.00313	<0.0000700	0.00212 J	0.0163 JB
	07/15/2021	FD	<0.0185	0.00394	0.107	0.179 J	<0.000150	0.00161 J	0.0000875 J	0.00186 JB	<0.0281	0.00118 J	0.00411 JB	<0.000100	0.00213 J	0.00117 JB	0.00316	<0.0000700	0.00202 J	0.0175 JB
	09/16/2021		<0.0185	0.00407	0.110	0.188 J	<0.000150	0.00136 J	<0.0000596	0.00241 J	<0.0281	<0.000849	0.00199 J	<0.000100	0.00202 JB	0.00133 J	0.00370	<0.0000700	0.00222 J	0.0155 J
	09/16/2021	FD	<0.0185	0.00387	0.113	0.184 J	<0.000150	0.00177 J	0.0000678 J	0.00294 J	<0.0281	<0.000849	0.00630	<0.000100	0.00207 JB	0.00101 J	0.00372	<0.0000700	0.00217 J	0.0246 J
	01/20/2022		<0.0185	0.00293	0.122	0.187 J	<0.000150	<0.00124	0.000122 J	0.00233 J	<0.0281	<0.000849	0.00337 J	<0.000100	0.00227 J	<0.000816	0.00412	<0.0000700	0.00230 J	0.0118 J
	01/20/2022	FD	<0.0185	0.00285	0.123	0.174 J	<0.000150	<0.00124	0.0000993 J	0.00206 J	<0.0281	<0.000849	0.00299 J	<0.000100	0.00232 J	<0.000816	0.00371	<0.0000700	0.00243 J	0.0120 J
	04/14/2022		0.0370 J	0.00471	0.119	0.179 J	<0.000150	0.00217	<0.0000596	0.00206 J	0.0526 J	<0.000849	0.00182 JB	<0.000100	0.00223 J	<0.000816	0.00359	<0.0000700	0.00226 J	0.0226 J
	04/14/2022	FD	0.0244 J	0.00539	0.118	0.178 J	0.000322 J	0.00172 J	0.000109 J	0.00262 J	0.0819 J	<0.000849	0.00262 J	<0.000100	0.00232 J	0.00118 J	0.00496	<0.0000700	0.00206 J	0.0254
	07/14/2022		<0.0185	0.00365	0.116	0.176 J	<0.000150	<0.00124	<0.0000596	0.0342	<0.0281	<0.000849	0.00389 J	<0.000100	0.00209 J	0.00143 J	0.00399	<0.0000700	0.00200 J	0.232
	07/14/2022	FD	<0.0185	0.00278	0.113	0.174 J	<0.000150	<0.00124	0.0000817 J	0.00281 J	<0.0281	<0.000849	0.00923	<0.000100	0.00218 J	0.00302	0.00351	<0.0000700	0.00209 J	0.123
	10/13/2022		<0.0185	0.00455	0.122	0.285	<0.000150	0.00236	0.0000730 J	0.00353 J	0.0742 J	<0.000849	0.00636	<0.000100	0.00206 J	0.000924 J	0.00354	<0.0000700	0.00240 J	0.0239 J
	10/13/2022	FD	<0.0185	0.00447	0.119	0.274	<0.000150	0.00126 J	0.0000609 J	<0.00151	0.0501 J	<0.000849	0.00459 J	<0.000100	0.00200 J	<0.000816	0.00371	<0.0000700	0.00228 J	0.0216 J
	01/26/2023		<0.0185	0.00448	0.106	0.176	<0.000150	0.00131	0.000586	0.00386	0.0485	0.00147	0.00397	<0.000100	0.00221	0.00171	0.00371	<0.0000700	0.00199	0.0672
	01/26/2023	FD	<0.0185	0.00497	0.105	0.184	<0.000150	0.00136	<0.0000596	0.00388	0.0541	0.00225	0.00137	<0.000100	0.00219	0.000858	0.00393	<0.0000700	0.00193	0.0241
	03/23/2023		<0.0185	0.00478	0.113	0.181 J	<0.000150	0.00131 J	<0.0000596	0.00264 J	<0.0281	<0.000849	0.00170 J	<0.000100	0.00201 J	<0.000816	0.00350	<0.0000700	0.00199 J	0.0353
	03/23/2023	FD	<0.0185	0.00476	0.111	0.185 J	<0.000150	0.00125 J	<0.0000596	0.00284 J	<0.0281	<0.000849	0.00161 J	<0.000100	0.00198 J	<0.000816	0.00367	<0.0000700	0.00203 J	0.0370
	07/27/2023		<0.0185	0.00454	0.127	0.208 B	<0.000150	0.00143 J	0.000125 J	0.00267 JB	0.336	0.00250	0.00394 J	<0.000100	0.00368 J	0.00741	0.00376	<0.0000700	0.00206 J	0.123
	07/27/2023	FD	<0.0185	0.00500	0.113	0.197 JB	0.000243 J	0.00142 J	0.000371 J	0.00172 JB	<0.0281	0.00218	0.00134 J	<0.000100	0.00222 JB	0.00152 J	0.00382	<0.0000700	0.00240 J	0.0254
	10/05/2023		<0.0185	0.00453	0.117	0.172 J	<0.000150	0.00197 J	0.0000795 J	0.00248 J	0.0662 J	0.00237	0.00343 J	<0.000100	0.00227 J	0.00717	0.00356	<0.0000700	0.00193 J	0.0702
	10/05/2023	FD	<0.0185	0.00480	0.113	0.179 J	<0.000150	0.00145 J	<0.0000596	<0.00151	<0.0281	0.00199 J	0.00159 J	<0.000100	0.00222 J	0.00302	0.00388	<0.0000700	0.00217 J	0.0438
	01/25/2024		0.0328 J	0.00478	0.108	0.172 J	<0.000150	<0.00124	0.0000794 J	0.00193 J	0.205	0.000856 J	0.00295 J	<0.000100	0.00212 J	0.00372	0.00365	<0.0000700	0.00213 J	0.0291
	01/25/2024	FD	<0.0185	0.00452	0.111	0.173 J	<0.000150	<0.00124	<0.0000596	<0.00151	0.195	<0.000849	0.00281 J	<0.000100	0.00225 J	0.00268	0.00365	<0.0000700	0.00223 J	0.0276
	04/04/2024		<0.0185	0.00485	0.121	0.186 J	<0.000150	0.00144 J	<0.0000596	<0.00151	<0.0281	0.00112 J	0.000967 J	<0.000100 [R]	0.00194 J	0.00265	0.00408	<0.0000700	0.00216 J	0.0227 J
	04/04/2024	FD	<0.0185	0.00457	0.124	0.195 J	<0.000150	0.00126 J	<0.0000596	<0.00151	<0.0281	0.00195 J	0.000961 J	<0.000100 [R]	0.00223 J	0.00435	0.00392	<0.0000700	0.00220 J	0.0253
	07/18/2024		<0.0185	0.00476	0.101	0.177 J	<0.000150	<0.00124	<0.0000596	<0.00151	0.0312 J	<0.000849	0.00265 J	<0.000100	0.00209 J	0.00139 J	0.00327	<0.0000700	0.00204 J	0.0182 J
	07/18/2024	FD	<0.0185	0.00473	0.0990	0.176 J	<0.000150	<0.00124	0.000117 J	<0.00151	0.0538 J	<0.000849	0.00439 J	<0.000100	0.00200 J	0.00379	0.00326	<0.0000700	0.00206 J	0.0490
	10/03/2024		<0.0185	0.00465	0.104	0.174 J	<0.000150	0.00125 J	0.0000649 J	<0.00151	<0.0281	<0.000849	0.00242 J	<0.0000700	0.00192 J	0.00610	0.00359	<0.0000700	0.00201 J	0.0383
	10/03/2024	FD	<0.0185	0.00463	0.102	0.172 J	<0.000150	0.00165 J	<0.0000596	<0.00151	0.0317 J	<0.000849	0.00359 J	<0.0000700	0.00202 J	0.00958	0.00342	<0.0000700	0.00197 J	0.0549
East Well	06/18/2009		0.0131	<0.00500	0.0820	0.143	<0.00200	<0.00500	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	- -	0.0291
	01/14/2010		<0.0100	<0.00500	0.0941	0.154	<0.00200	0.0119	<0.00500	0.00953	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	0.00111	0.0146
	08/25/2010		<0.0100	<0.00500	0.0873	0.136	<0.00200	0.0145	<0.00500	0.00745	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0347
	03/03/2011		<0.0100	<0.00500	0.0970	0.152	<0.00200	0.0189	<0.00500	<0.00500	<0.200	0.00662	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00936
	07/20/2011		<0.0100	<0.00500	0.104	0.142	<0.00200	0.0200	<0.00500	<0.00500	<0.200	0.0116	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0937
	02/02/2012		0.0150	<0.00500	0.0993	0.145	<0.00200	0.0166	<0.00500	<0.00500	<0.200	0.00988	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0937
	07/30/2012		<0.0100	<0.00500	0.0922	0.136	<0.00200	0.0157	<0.00500	0.00774	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0166
	08/27/2012		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.000200	- -	- -	- -	- -	- -	- -
	09/26/2012		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.000200	- -	- -	- -	- -	- -	- -
	10/22/2012		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.000200	- -	- -	- -	- -	- -	- -
	12/27/2012		- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	<0.000200	- -	- -	- -	- -	- -	- -
	02/28/2014		0.0104	<0.00500	0.116	0.158	<0.00200	0.0139	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0317
	08/22/2014		<0.0100	<0.00500	0.103	<0.0200	<0.00200	0.0119	<0.00500	<0.00500	<0.200	<0.00500	0.00812	<0.000200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0156
	12/17/2014		<0.0100	0.00436	0.0905	0.120	<0.00100	0.0112	<0.00100	<0.00100	0.143	<0.00100	0.00430	<0.00020	0.00241	<0.00100	0.00395	<0.00100	0.00181	0.0147
	03/09/2015		<0.035	0.0046	0.10	0.15	<0.00070	0.012	<0.0023	0.068	<0.014	0.0012 J	0.0021 J	<0.000049	0.0023 J	<0.0049	0.010 J	<0.0028	0.0018 J	0.086
	05/19/2015		<0.035	0.0050	0.10	0.14 J	<0.00070	0.012	<0.0023	<0.0053	<0.014	<0.00024	0.0016 J	<0.000049	0.0028 J	<0.0049	0.0037	<0.0028	0.0019 J	0.013 J
	08/28/2015		<0.0350	0.00445	0.0981	0.149	<0.000700	0.00866 J	<0.00230	<0.00530	0.0248 J	0.000241 J	0.0129	<0.0000490	0.00236 J	<0.00490	0.00388	<0.00280	0.00174 J	0.0284 J
	12/17/2015		0.0668 J	0.00507	0.0997	0.167 J	<0.000160	0.00866	<0.000260	0.00143 J	<0.0141	<0.000240	0.00217 J	<0.0000490	<0.00160	0.000365 J	0.00387	<0.000310	0.00188 J	0.0101 J
	03/10/2016		0.00534 J	0.00454	0.0926	0.143	<0.000160	0.00835	<0.000260	0.000987 J	<0.0150	<0.000240	0.00274 JB	<0.0000490	0.00246 JB	0.000662 JB	0.00384	<0.000310	0.00166 J	0.0260 B
	05/25/2016		<0.00200	0.00483	0.0906	0.154	<0.000160	0.00902	<0.000260	0.0315	<0.0150	0.00141 J	0.00181 JB	<0.0000490	0.00217 J	<0.000350	0.00376	<0.000310	0.00181 J	0.0399
	08/18/2016		0.00258 JB	0.00454	0.0939	0.162	<0.000160	0.00451 B	<0.000260	0.00196 JB	0.0337 J	<0.000240	0.00346 J	<0.0000490	0.00288 J	0.00121 JB	0.00386	<0.000310	0.00194 J	0.0291 B
	12/08/2016		0.00471 JB	0.00464	0.0858	0.122	<0.000160	0.00702	<0.000260	0.00390 J	<0.0150	<0.000240	0.00178 J	<0.0000490	0.00254 J	<0.000350	0.00384	<0.000310	0.00172 J	0.0269
	02/07/2017		<0.0258	0.00523 J	0.105	0.158	<0.000800	0.00749 J	<0.00130	<0.00260	<0.0750	<0.00120	0.00214 J	<0.0000490	0.00260 J	<0.00175	0.00358	<0.00155	0.00201 J	0.0141 J
	05/31/2017		<0.00515	0.00462	0.0928	0.144	<0.000160	0.00662	<0.000260	0.0259	<0.0150	0.00115 J	0.00132 J	<0.0000490	0.00228 J	0.000529 J	0.00351	<0.000310	0.00184 J	0.0297
	08/17/2017		0.0583 J	0.00476	0.0903	0.134	<0.000160	0.00699	<0.000260	0.000968 J	<0.0150	<0.000240	0.000802 JB	<0.0000490	0.00237 J	<0.000350	0.00396	<0.000310	0.00181 J	0.00556 J
	12/14/2017		0.0284 JB	0.00527	0.0881	0.128	0.000195 J	0.00619	0.000334 J	0.00244 JB	0.0331 J	0.000575 J	0.00129 J	<0.0000490	0.00286 J	0.000638 J	0.00386	<0.000310	0.00221 J	0.00987 J
	02/23/2018		0.0326 JB	0.00531	0.0893	0.150 J	0.000266 J	0.00730	0.000381 J	0.00559	0.0313 J	0.00188 J	0.000591 JB	<0.0000490	0.00303 J	0.000904 JB	0.00491	<0.000310	0.00212 J	0.0340
	04/05/2018		0.00660 JB	0.00515	0.0947	0.148 J	<0.000160	0.00555	<0.000260	0.00183 JB	<0.0150	0.000365 JB	0.000358 JB	<0.0000490	0.00243 JB	0.000394 JB	0.00402	<0.000310	0.00195 JB	0.0666
	07/31/2018		0.0113 JB	0.00384	0.0902	0.132 J	0.000193 JB	0.00369	<0.000260	0.00911	<0.0150	0.000287 J	0.00145 J	<0.0000490	0.00244 J	0.000789 J	0.00374	<0.000310	0.00182 J	0.210

Received by OCD: 4/15/2025 7:55:48 AM

Table 4. Dissolved Metals and Total Mercury Concentrations in Groundwater
HF Sinclair Navajo Refining LLC, AP-110, Lovington, New Mexico

Monitor Well	Sample Date	Duplicate	Aluminum (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Total Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium 238 (mg/L)	Zinc (mg/L)
New Mexico WQCC Groundwater Standards			5.0	0.01	2	0.75	0.005	0.05	0.05	1.0	1.0	0.015	0.2	0.002	1.0	0.2	0.05	0.05	0.03	10.0
East Well	10/01/2018		0.00755 J	0.00534	0.0961	0.114 J	<0.000160	0.00537	<0.000260	0.00189 J	<0.0150	0.000589 J	0.000543 J	<0.0000490	0.00277 J	<0.000350	0.00472	<0.000310	0.00189 J	0.0536
	01/23/2019		0.0301 J	0.00520	0.0908	0.137	0.000279 J	0.00585	0.000346 J	0.00249 JB	0.0297 J	0.000666 J	0.000402 J	<0.0000490	0.00287 J	0.00104 JB	0.00382	<0.000310	0.00231 J	0.0208 J
	04/04/2019		<0.00515	0.00472	0.0919	0.195 J	<0.000160	0.00504	<0.000260	0.0109	<0.0150	0.000844 J	0.000373 JB	<0.0000490	0.00243 J	<0.000350	0.00341	<0.000310	0.00193 J	0.0476
	07/11/2019		<0.00515	0.00495	0.0952	0.142 J	<0.000160	0.00647	<0.000260	0.00995 B	<0.0150	0.000637 JB	<0.000250	<0.0000490	0.00266 J	0.000563 J	0.00341	<0.000310	0.00186 J	0.0128 J
	10/24/2019		<0.00515	0.00454	0.0937	0.138 J	<0.000160	0.00320	<0.000260	<0.000520	<0.0150	<0.000240	0.000903 J	0.0000613 JB	0.00260 J	0.000377 J	0.00393	<0.000310	0.00168 J	0.00418 J
	01/15/2020		<0.00515	0.00436	0.0986	0.143 J	<0.000160	0.000797 JB	<0.000260	0.000843 J	<0.0150	<0.000240	0.00221 JB	<0.0000490	0.00269 J	0.000845 JB	0.00564	<0.000310	0.00209 J	0.00523 J
	06/18/2020		<0.0554	0.00489	0.0965	0.140 J	<0.000478	0.00504	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00258 J	<0.000952	0.00420	<0.000513	<0.00754	0.0300
	08/19/2020		<0.0554	0.00516	0.0909	0.148 J	<0.000478	0.00348	<0.000477	<0.00250	<0.0489	<0.00249	0.00242 J	<0.000100	0.00254 J	<0.000952	0.00419	<0.000513	<0.00754	<0.00996
	10/08/2020		<0.0554	0.00495	0.0927	0.146 J	<0.000478	0.00482	<0.000477	<0.00250	<0.0489	<0.00249	<0.00132	<0.000100	0.00262 J	<0.000952	0.00404	<0.000513	<0.00754	0.0112 J
	01/28/2021		<0.0185	0.00516	0.0975	0.142 J	<0.000150	0.00541	0.0000716 J	0.00497 J	<0.0281	0.00224	0.000778 J	<0.000100	0.00269 J	0.000993 J	0.00419	<0.0000700	0.00192 J	0.0338
	04/15/2021		0.0274 J	0.00504	0.0943	0.139 J	<0.000150	0.00473 B	0.0000755 J	<0.00151	<0.0281	<0.000849	<0.000704	<0.000100	0.00239 J	0.000944 J	0.00448	<0.0000700	0.00182 J	0.0102 J
	07/15/2021		<0.0185	0.00481	0.0870	0.129 J	<0.000150	0.00511	0.0000821 J	0.00159 JB	<0.0281	<0.000849	0.00152 JB	<0.000100	0.00263 J	0.000916 JB	0.00404	<0.0000700	0.00170 J	0.0101 JB
	09/16/2021		<0.0185	0.00452	0.0920	0.150 J	<0.000150	0.00342	0.0000724 J	0.00303 J	<0.0281	<0.000849	0.00522	<0.000100	0.00257 JB	<0.000816	0.00403	<0.0000700	0.00191 J	0.0321
	11/10/2021		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/10/2021	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/2022		<0.0185	0.00396	0.0975	0.149 J	<0.000150	<0.00124	0.000260 J	<0.00151	<0.0281	<0.000849	0.00328 J	<0.000100	0.00285 J	<0.000816	0.00454	<0.0000700	0.00201 J	<0.00302
	04/14/2022		<0.0185	0.00578	0.0938	0.142 J	0.000301 J	0.00394	0.000137 J	0.00253 J	0.0601 J	0.00281	0.00553	<0.000100	0.00295 J	0.00126 J	0.0197	<0.0000700	0.00186 J	0.0149 J
	07/14/2022		<0.0185	0.00450	0.0851	0.146 J	<0.000150	0.00279	0.0000825 J	0.00232 J	<0.0281	<0.000849	0.00278 J	<0.000100	0.00272 J	0.00164 J	0.00414	<0.0000700	0.00182 J	0.00870 J
	10/13/2022		<0.0185	0.00529	0.0883	0.136 J	<0.000150	0.00364	0.000135 J	<0.00151	0.0510 J	<0.000849	0.00114 J	<0.000100	0.00267 J	0.00196 J	0.00418	<0.0000700	0.00184 J	0.0167 J
	01/26/2023		<0.0185	0.00483	0.0824	0.140	<0.000150	0.00302	0.0000771	0.00188	0.115	<0.000849	0.00368	<0.000100	0.00259	0.00195	0.00425	<0.0000700	0.00177	0.0127
	03/23/2023		<0.0185	0.00511	0.0891	0.144 J	<0.000150	0.00338	0.0000632 J	0.00201 J	0.0643 J	<0.000849	0.00207 J	<0.000100	0.00255 J	<0.000816	0.00388	<0.0000700	0.00172 J	0.00557 J
	07/27/2023		<0.0185	0.00525	0.0878	0.164 B	<0.000150	0.00402	0.000160 J	0.00265 JB	0.0444 J	<0.000849	0.00143 J	<0.000100	0.00274 JB	0.000821 J	0.00431	<0.0000700	0.00175 J	<0.00302
	10/05/2023		<0.0185	0.00547	0.0874	0.144 J	<0.000150	0.00354	<0.0000596	0.00279 J	0.0427 J	<0.000849	0.00271 J	<0.000100	0.00276 J	0.00224	0.00425	<0.0000700	0.00191 J	0.00692 J
	01/25/2024		<0.0185	0.00526	0.116	0.158 J	<0.000150	0.00328	0.0000750 J	0.00411 J	0.0604 J	<0.000849	0.00481 J	<0.000100	0.00256 J	0.00607	0.00437	<0.0000700	0.00195 J	0.161
	04/04/2024		<0.0185	0.00553	0.0829	0.142 J	<0.000150	0.00184 J	0.0000669 J	0.00278 J	<0.0281	<0.000849	0.00153 J	<0.000100 [R]	0.00273 J	<0.000816	0.00411	<0.0000700	0.00167 J	0.0115 J
	07/18/2024		<0.0185	0.00512	0.0802	0.138 J	<0.000150	0.00255	<0.0000596	0.00163 J	<0.0281	<0.000849	0.00152 J	<0.000100	0.00241 J	0.000836 J	0.00359	<0.0000700	0.00161 J	0.00800 J
	10/03/2024		<0.0185	0.00503	0.0833	0.135 J	<0.000150	0.00252	0.0000642 J	0.00191 J	0.0373 J	<0.000849	0.00172 J	<0.0000700	0.00249 J	0.000881 J	0.00384	<0.0000700	0.00165 J	0.00856 J

Notes:
Shading indicates detected result exceeded the New Mexico Water Quality Control Commission (WQCC) Groundwater Standard
N/A = Not Applicable, no New Mexico WQCC Groundwater Standard established for constituent
mg/L = milligrams per liter
FD = Field Duplicate
< = Not reported above laboratory reporting limit
-- = Not Analyzed
(1)= Not analyzed due to insufficient water volume
(2)= Not analyzed due to refinery operations (inaccessible)
J = analyte was detected below the laboratory reporting limit (June 2009 to December 2014) or the method quantitation limit (February 2015 to April 2021), or reported detection limit (July 2021, to October 2024), reported value is estimated
B = same analyte was detected in the associated laboratory blank or equipment blank; sample concentration is within 5 times the blank concentration
[R] analyte not usable for project objectives according to the United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Inorganic Superfund Methods* (USEPA, November 2020)
Samples collected for metals analysis (except for Total Mercury) were field- or lab-filtered with 0.45 micron filter
June 2009 to August 2014 analyses completed by ALS Laboratory Group, Houston, Texas
December 2014 analyses completed by Hall Environmental Analysis Laboratory in Albuquerque, New Mexico
February 2015 to present analyses completed by Pace Analytical National Center for Testing & Innovation (formerly ESC Lab Sciences) in Mount Juliet, Tennessee
Analytical data from 2009 to 2011 were provided by a previous consultant and could not be confirmed against the original data packages

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Table 5. Summary of Releases in 2024
HF Sinclair Navajo Refining LLC, GW-014, Lovington, New Mexico

Date Release Discovered	Release Location	Estimated Volume Released to Ground*	Estimated Volume Recovered from Ground	Released Material	Release Summary	Corrective Action
January 20, 2024	Unit: 86 Lovington - Utilities	<1 gallon	0 gallons	Utility Water	Operator discovered water leaking from the pipe rack in the utility aisle near the Demin Building. Utility water line, which supplies the safety shower and utility drop, had frozen and burst, causing a blockage and leakage. Approximately 1 gallon of utility water was released to the ground.	Supply of utility water was stopped. Repair completed.
March 5, 2024	Unit: 84 Lovington - Crude Unit	3 barrels	0 barrels	Firewater	The firewater monitor north of TK-1201C was discovered leaking by the Environmental Team. Approximately 3 barrels of firewater was released to the ground.	The valve to the monitor was closed and clean-up efforts were made. Repair completed.
April 5, 2024	Unit: 84 Lovington - Tankage/Trucks/Loading	2 gallons	<2 gallons	Crude Oil	During routine inspections, the mixer on TK-1201A was found leaking. The seal had a constant drip. Approximately 1 to 2 gallons of crude oil was released to the ground at the mixer.	Outside operators placed a container under the seal leak. Repair completed. Absorbent pads were placed on the impacted soil.
May 28, 2024	Unit: 84 Lovington - Tankage/Trucks/Loading	1 barrel	<1 barrel	Spent Caustic	While moving spent caustic with a vacuum truck from temporary spent caustic holding tanks, one of the holding tanks started leaking from the back manway wing nuts. Operator was walking around the holding tank and noticed spent caustic in the secondary containment. The operator also found that part of the secondary containment had rolled up due to wind, allowing approximately 1 barrel of spent caustic to be released to the ground from the holding tank.	The operator immediately unrolled the containment and tightened the manway wing nuts to stop the flow of spent caustic. The operator then used the vacuum truck to remove spent caustic from the secondary containment and any excess spent caustic pooled on the ground. Operations then spread absorbent on the contaminated ground.
June 16, 2024	Unit: 85 Lovington - Offgas Treatment	5 gallons	<5 gallons	Spent Caustic	Spent caustic discovered leaking from Frac Tank #13 during a routine inspection. Approximately 5 gallons of spent caustic spilled on to the ground and another 20 gallons were contained in the secondary containment.	The ball valve was found open on the bottom of the frac tank sight glass. The operator closed and plugged the valve. The operator also inspected all new frac tanks awaiting for service and found the valves open as well and immediately closed them. Vacuum truck used to remove spent caustic released to secondary containment and from the ground as much as possible. Absorbent pads used on impacted soil.
September 10, 2024	Unit: 84 Lovington - Offgas Treatment	2 gallons	<2 gallons	Diesel	A leak was discovered on the 12-inch reducer on the north side of Tank 103B where it was welded together with the pipe.	The proper personnel were notified and a containment was placed for the leak. Impacted soil was removed and placed in a drum. Repair in progress.
September 16, 2024	Unit: 84 Lovington - Tankage/Trucks/Loading	1 quart	<1 quart	Diesel	P1204 was discovered vibrating and leaking with a puddle of diesel on top of the pump case/seal area. Approximately 1 quart of diesel was released to ground.	The transfer was shut off. Absorbent pad used on impacted soil. Repair completed.
September 25, 2024	Unit: 84 Lovington - Tankage/Trucks/Loading	2 barrels	<2 barrels	Hydrocarbon/oil (mixed with rainwater)	During a routine inspection, operations noticed water mixed with hydrocarbon coming from the roof drain at TK-1201A and pooling on the ground around the tank. The roof drain had been opened due to heavy rainfall over the weekend. Further investigation revealed excess oil on the floating roof tank along with rainwater. Several tank leg socks had fallen off the legs. Approximately 2 barrels of hydrocarbon/oil and rainwater mix were released to the ground.	The operator immediately closed the roof drain and reported the situation to the supervisor. A WA was submitted and provisions were being made for the cleanup of contaminated soil and the tank roof. Roof was repaired. Impacted soils were removed and placed in a hard top roll-off bin.
October 19, 2024	Unit: 82 Lovington - Crude Unit	10 gallons	<10 gallons	Crude Oil	While making rounds, the operator noticed a sizable area of crude oil on the ground coming from P-137 (Pre-Flash Bottoms Pump). Upon further investigation, the operator found that the seal cooler tubing inlet to P-137 was leaking. As the operator was observing the leak, the tubing completely separated from the connection, causing crude oil to be released. Approximately 10 gallons of crude were released to ground before the pump could be isolated.	The operator notified the board operator of the tubing failure on P-137 and began blocking in the pump to stop the crude leak. Absorbent pads were placed on the released crude oil and then placed in a 55 gallon drum.
October 23, 2024	Unit: 82 Lovington - Crude Unit	<1 gallon	0 gallons	Caustic	The discharge pressure gauge on the caustic day pot chemical pump was found leaking. Approximately less than one gallon of caustic liquid was released to the ground.	The outside operator donned a self-contained breathing apparatus (SCBA) and chemical-resistant personal protective equipment (PPE), blocked gauge in, and replaced the gauge with a new one. Absorbent pads were placed on the released caustic and then placed in a 55 gallon drum.
October 30, 2024	Unit: 86 Lovington - Utilities	2 barrels	0 barrels	Raw Water to Reverse Osmosis (RO) Unit	The contractor notified operations of a large water leak at the RO unit. Operations found that a 6-inch PVC pipe had completely broken off the flange to the RO unit feed, causing raw water to spray from the inlet. Approximately 2 barrels of raw water were released to the ground.	The raw water feed to the RO unit was blocked in and locked out/tagged out. Contractor called out to make repairs. Repairs completed.

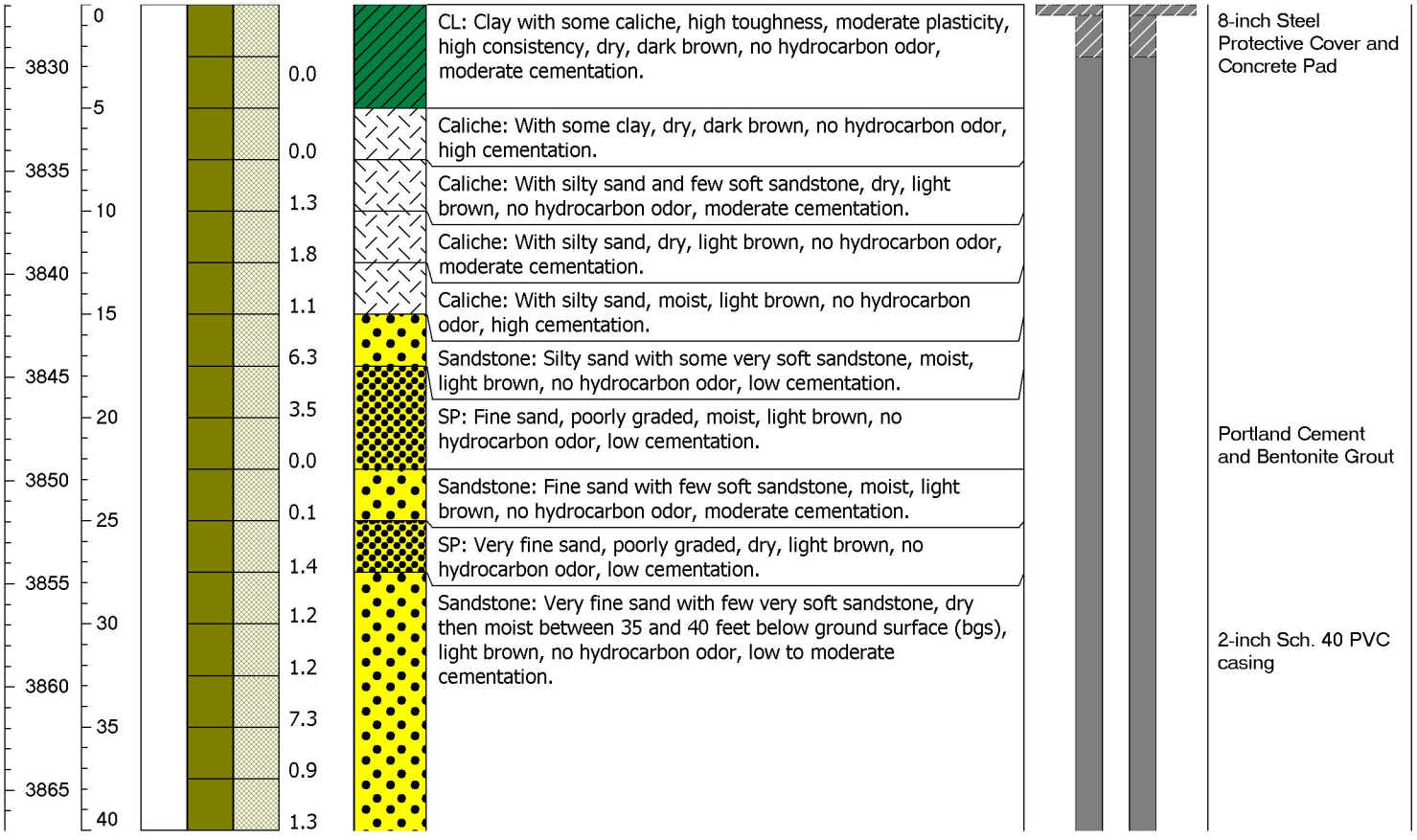
* Releases that resulted in any of the released material contacting the ground surface are included in this table. Releases that were entirely contained within any lined or cemented secondary containment are not included in this table.

APPENDIX A

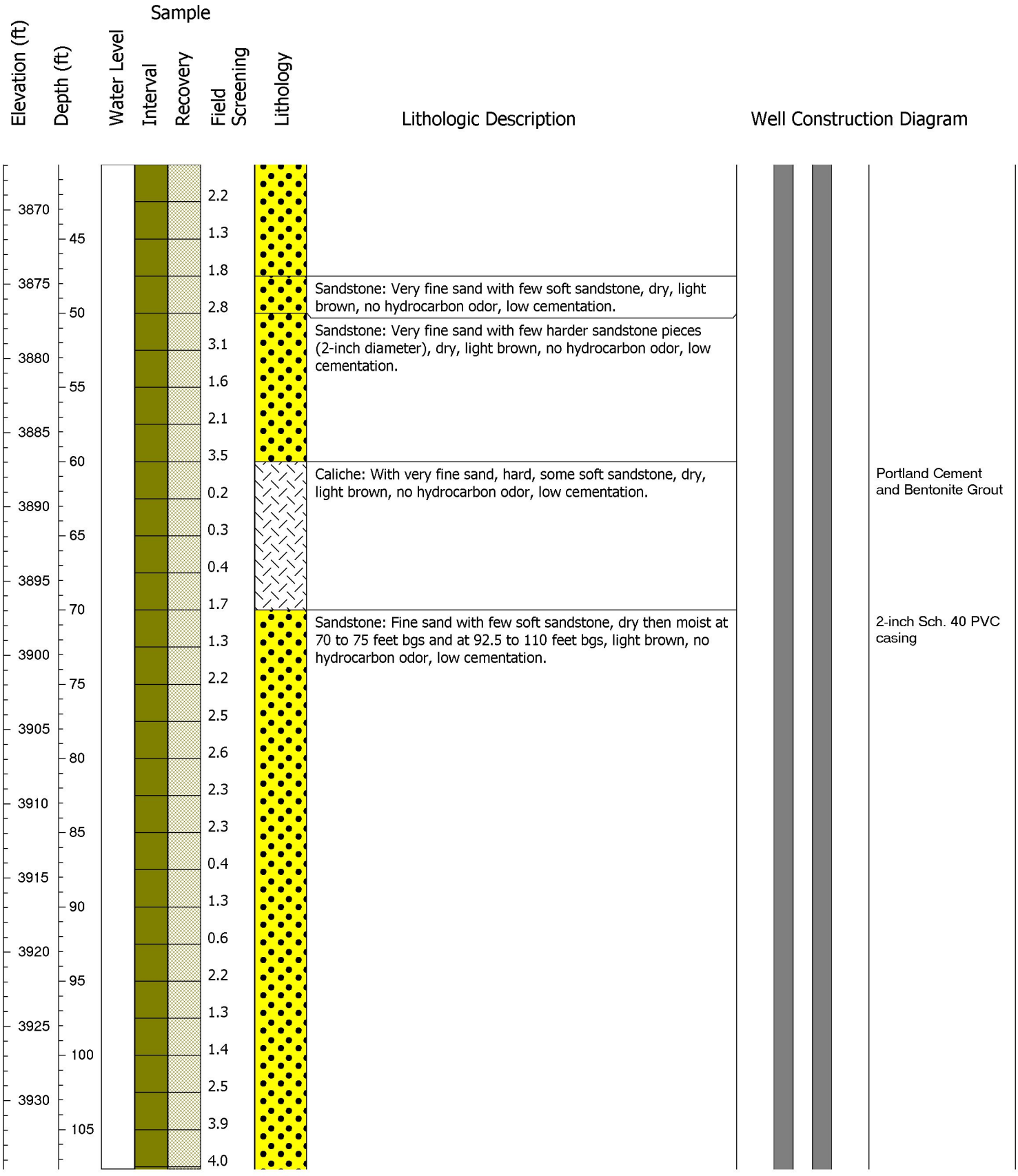
BORING LOGS

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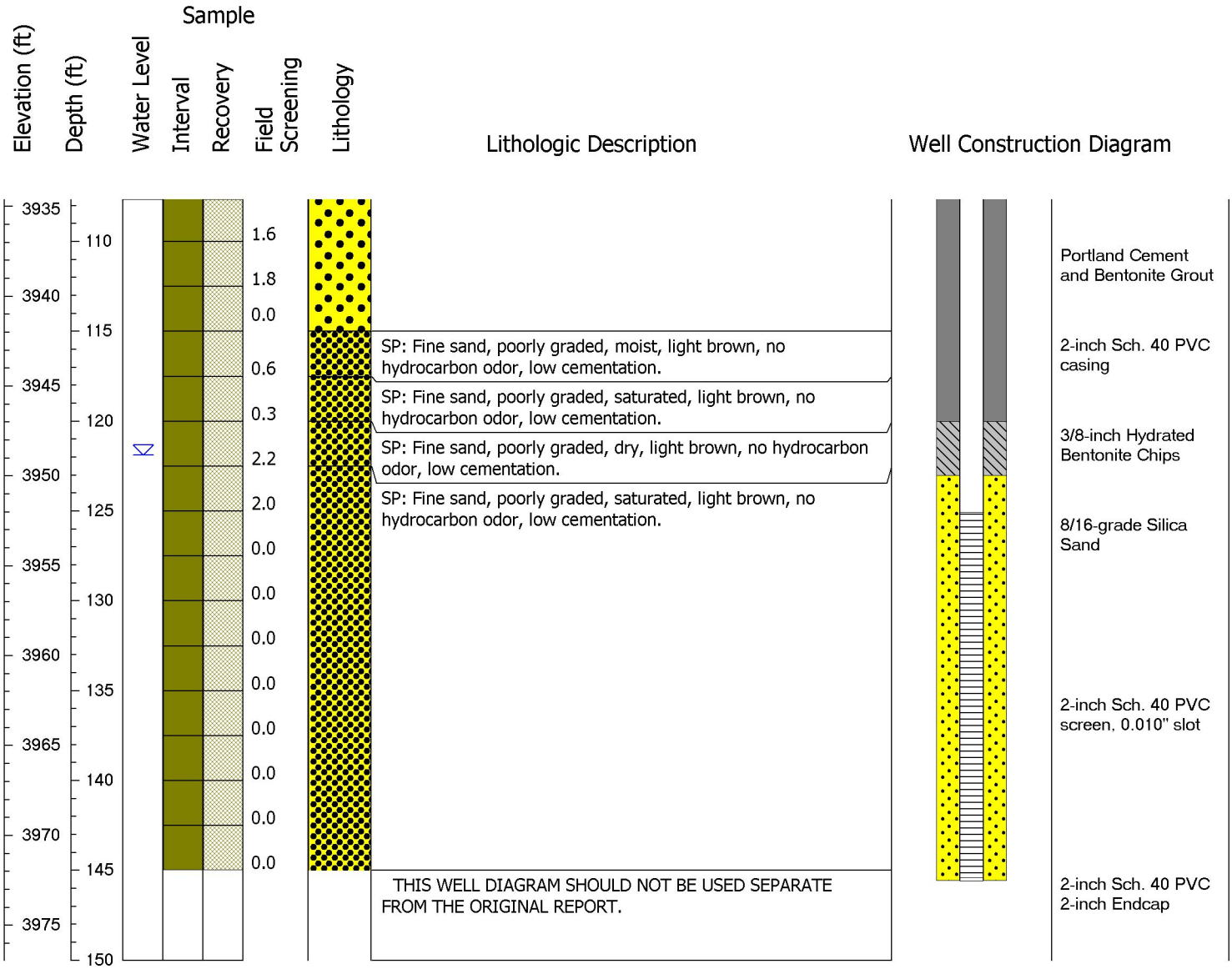
TRC BORING LOG and WELL CONSTRUCTION	MW-28R
Client: HF Sinclair Navajo Refining LLC	TRC Project #: 626568
Site: Navajo Lovington Refinery	Start Date: 10/17/2024
Address: 7406 South Main Street, Lovington, New Mexico 88260	End Date: 10/21/2024
Project: Lovington Well Replacement 2024	Permit Number: L-12562
Drilling Company: Cascade Drilling Crew: K. Rogers and crew	TRC Site Rep.: R. Niehay
Drilling Method: Roto-sonic	TRC Reviewer: A. Eljuri
Boring Diameter (in): 7 Boring Depth (ft bgs): 145.23	X-Y Coord. System: NM State Plan Coord.
Sampling Method: Continuous Core	Latitude: 32°52'52.60923"
Blow Count Method: Not applicable	Longitude: -103°18'02.94397"
Field Screening Parameter: Volatile Organic Compounds	Elevation Datum: GEOID18 Model
Meter: RKI GX-6000 PID Units: ppm	Ground Elevation (ft): 3833.390
Well Depth (ft bgs): 145.57 Well Depth (ft toc): 145.23	Well Elevation (ft): 3833.053
Casing Length (ft): 125.06 Screen Length (ft): 20	Well Measuring Point: Top of Casing
Surface Completion: 8-inch flush mount steel cover and concrete pad	Depth to Water (ft toc): 121.54
Well Development: Pumped and surged ~40 gallons	Date/Time: 10/22/2024 11:05



TRC BORING LOG and WELL CONSTRUCTION	MW-28R	
Client: HF Sinclair Navajo Refining LLC	Site: Navajo Lovington Refinery	Page 2 of 3



TRC BORING LOG and WELL CONSTRUCTION	MW-28R	
Client: HF Sinclair Navajo Refining LLC	Site: Navajo Lovington Refinery	Page 3 of 3



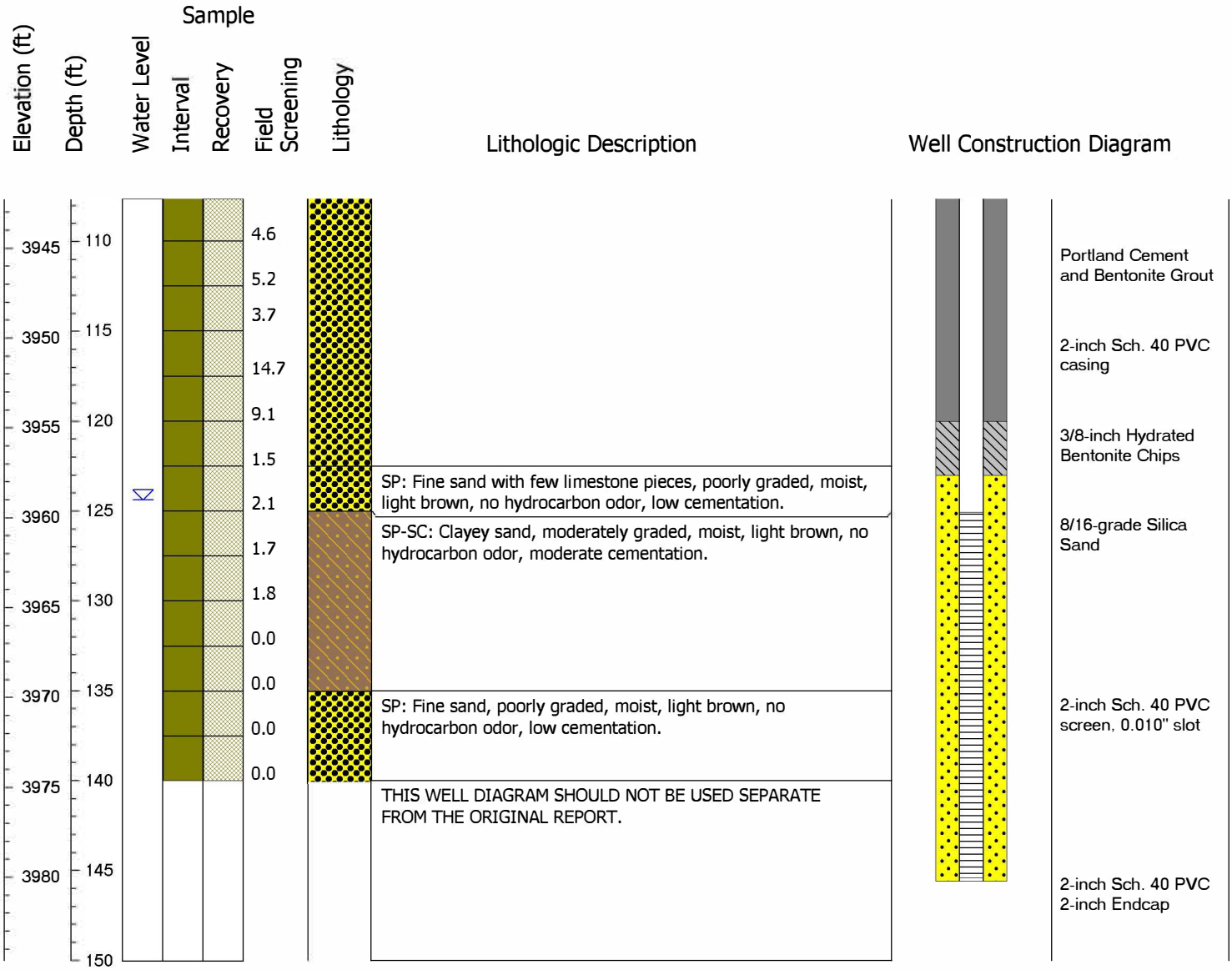
TRC BORING LOG and WELL CONSTRUCTION	MW-29R
Client: HF Sinclair Navajo Refining LLC	TRC Project #: 626568
Site: Navajo Lovington Refinery	Start Date: 10/17/2024
Address: 7406 South Main Street, Lovington, New Mexico 88260	End Date: 10/21/2024
Project: Lovington Well Replacement 2024	Permit Number: L-12562
Drilling Company: Cascade Drilling Crew: K. Rogers and crew	TRC Site Rep.: R. Niehay
Drilling Method: Roto-sonic	TRC Reviewer: A. Eljuri
Boring Diameter (in): 7 Boring Depth (ft bgs): 145.22	X-Y Coord. System: NM State Plan Coord.
Sampling Method: Continuous Core	Latitude: 32° 52'50.81585"
Blow Count Method: Not applicable	Longitude: -103° 18'07.06607"
Field Screening Parameter: Volatile Organic Compounds	Elevation Datum: GEOID18 Model
Meter: RKI GX-6000 PID Units: ppm	Ground Elevation (ft): 3835.688
Well Depth (ft bgs): 145.54 Well Depth (ft toc): 145.22	Well Elevation (ft): 3835.371
Casing Length (ft): 125.06 Screen Length (ft): 20	Well Measuring Point: Top of Casing
Surface Completion: 8-inch flush mount steel cover and concrete pad	Depth to Water (ft toc): 124.05
Well Development: Pumped and surged ~39 gallons	Date/Time: 10/22/2024 11:00

Elevation (ft)	Depth (ft)	Water Level	Sample Interval	Sample Recovery	Field Screening	Lithology	Lithologic Description	Well Construction Diagram
3835	0			0.0			Caliche: With gravel, some silty sand, dry, grey, no hydrocarbon odor, high cementation.	8-inch Steel Protective Cover and Concrete Pad
3840	5			0.0			SP-SM: Silty sand with caliche, poorly graded, no toughness, no plasticity, high to moderate consistency, dry, light brown, no hydrocarbon odor, moderate cementation.	
3845	10			1.7			SP-SM: Silty sand with caliche and some cobbles, poorly graded, no toughness, no plasticity, moderate consistency, dry, light brown, no hydrocarbon odor, moderate cementation.	
3850	15			3.8				
3855	20			1.7				Portland Cement and Bentonite Grout
3860	25			3.1				
3865	30			0.2				
3870	35			3.1			SP-SM: Fine silty sand with some sandstone, poorly graded, no toughness, no plasticity, moderate consistency, moist, brown, no hydrocarbon odor, moderate cementation.	
	40			2.3			SP-SM: Fine silty sand, no toughness, poorly graded, moderate plasticity, high consistency, moist, light brown, no hydrocarbon odor, moderate cementation.	
				1.2				
				3.8				
				6.7			SP: Fine sand with some caliche, poorly graded, dry, light brown, no hydrocarbon odor, high cementation.	2-inch Sch. 40 PVC casing
				5.7				
				4.5			SP: Very fine sand with some caliche, poorly graded, dry, light brown, no hydrocarbon odor, moderate cementation.	
				10.1				
				5.4				

TRC BORING LOG and WELL CONSTRUCTION	MW-29R	
Client: HF Sinclair Navajo Refining LLC	Site: Navajo Lovington Refinery	Page 2 of 3

Elevation (ft)	Depth (ft)	Water Level	Sample Interval	Sample Recovery	Field Screening	Lithology	Lithologic Description	Well Construction Diagram
3875					2.8		SP: Very fine sand, poorly graded, dry, light brown, no hydrocarbon odor, low to moderate cementation.	
3880	45				3.9			
					3.1			
3885	50				0.7			
					0.6			
3890	55				1.5		SP: Very fine sand with some soft sandstone, poorly graded, dry, light brown, no hydrocarbon odor, moderate cementation.	
					0.8		SP: Very fine sand with some siltstone, poorly graded, dry, light brown, no hydrocarbon odor, high cementation.	
3895	60				1.7		SP: Very fine sand, poorly graded, dry, light brown, no hydrocarbon odor, low cementation then high cementation from 60 to 65 feet below ground surface (bgs).	Portland Cement and Bentonite Grout
					1.8			
3900	65				1.6			
					5.7			
3905	70				4.5			2-inch Sch. 40 PVC casing
					2.8			
3910	75				2.1			
					7.1			
3915	80				6.4			
					3.4		SP: Fine sand with some caliche, poorly graded, dry, light brown, no hydrocarbon odor, moderate cementation.	
3920	85				4.6		SP: Very fine sand, poorly graded, dry then moist from 85 to 105 feet bgs and from 107.5 to 122.5 feet bgs, light brown, no hydrocarbon odor, low cementation.	
					2.5			
3925	90				2.9			
					3.7			
3930	95				2.5			
					2.8			
3935	100				3.0			
					2.8			
3940	105				3.0			
					4.7			

TRC BORING LOG and WELL CONSTRUCTION	MW-29R	
Client: HF Sinclair Navajo Refining LLC	Site: Navajo Lovington Refinery	Page 3 of 3

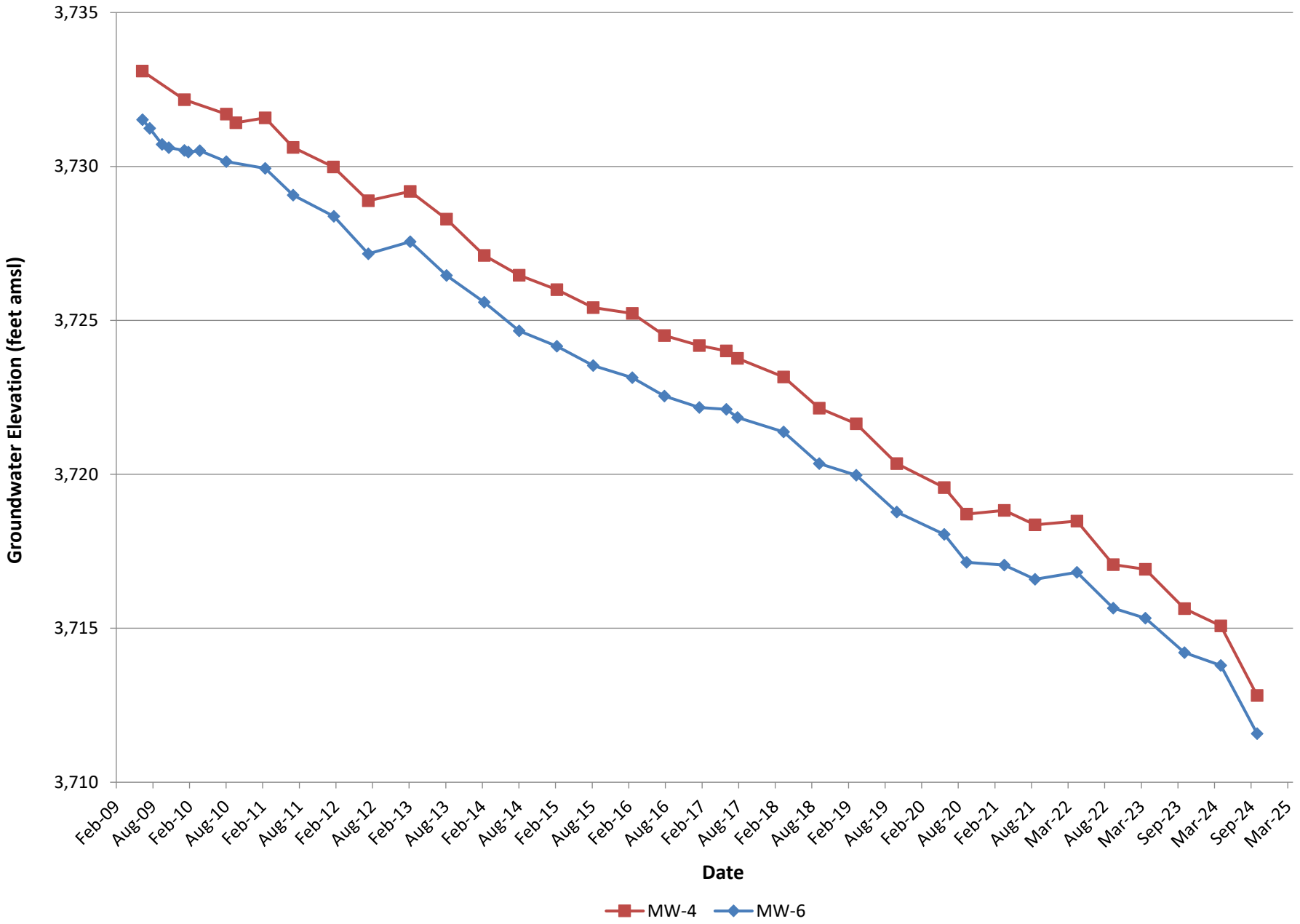


APPENDIX B

PLOT OF GROUNDWATER ELEVATIONS OVER TIME

Released to Imaging: 5/2/2025 9:53:52 AM

APPENDIX B - GROUNDWATER ELEVATIONS OVER TIME
HF Sinclair Navajo Refining LLC
GW-014, Lovington, New Mexico



APPENDIX C

LABORATORY ANALYTICAL REPORTS

Released to Imaging: 5/2/2025 9:53:52 AM

ANALYTICAL REPORT

February 07, 2024

TRC Solutions - Austin, TX

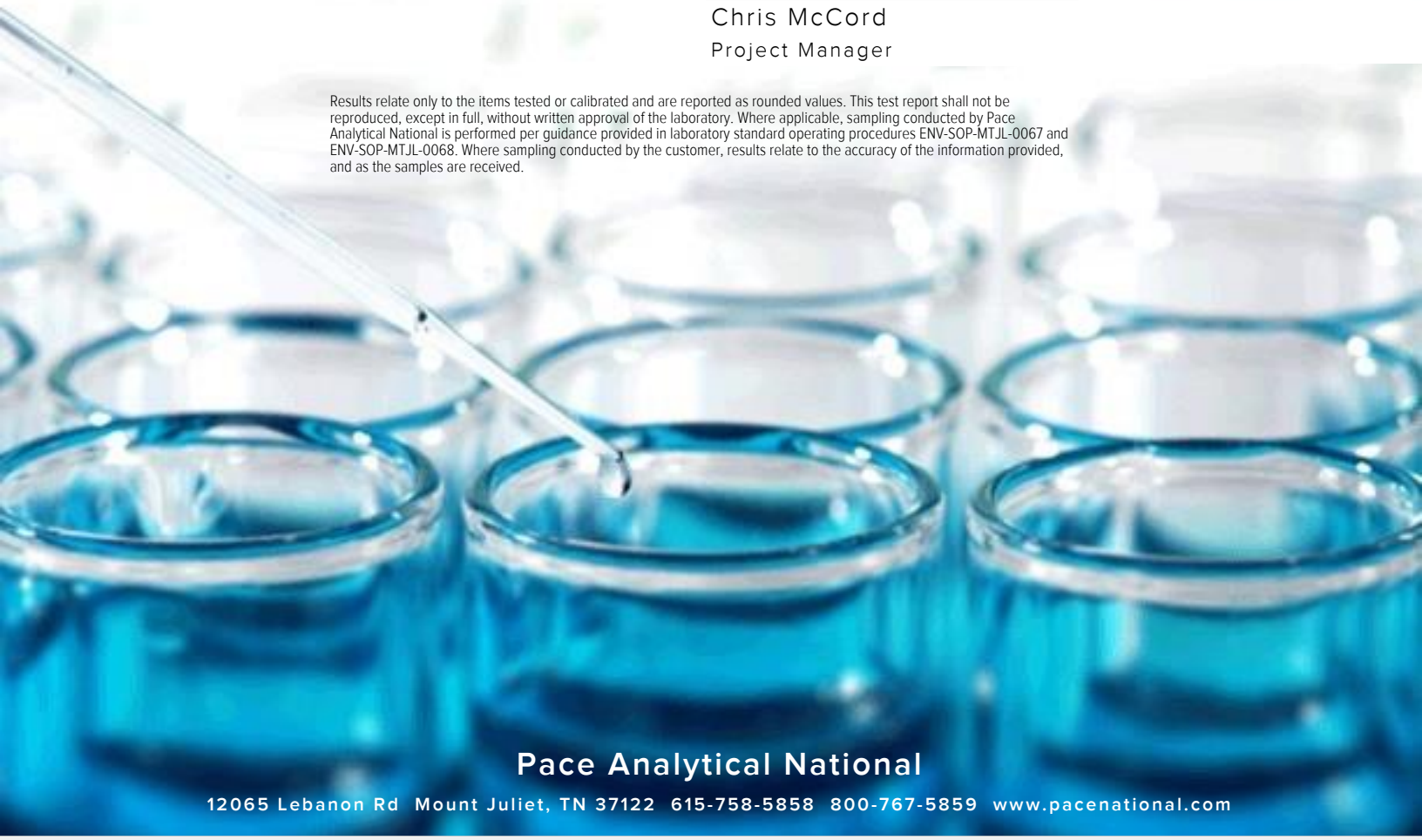
Sample Delivery Group:	L1699138
Samples Received:	01/26/2024
Project Number:	584880.0000.0000
Description:	Lovington Lea Refinery

Report To: Julie Speer
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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

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WW-NORTH L1699138-01 GW

Collected by: BB / HMI Team | Collected date/time: 01/25/24 10:20 | Received date/time: 01/26/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2214321	1	01/26/24 18:30	01/27/24 22:13	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2214883	1	01/28/24 14:20	01/28/24 14:20	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2213797	1	01/26/24 15:56	01/26/24 15:56	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2214167	1	01/28/24 10:23	01/28/24 18:57	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2214859	1	02/01/24 11:03	02/01/24 21:33	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2214111	1	01/30/24 04:50	01/31/24 00:55	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2216785	1	01/31/24 20:23	01/31/24 20:23	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2214292	1	01/27/24 03:48	01/27/24 03:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2218743	1	02/02/24 12:27	02/02/24 12:27	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2214556	1	01/27/24 15:10	01/29/24 16:01	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2214422	1	01/27/24 06:17	01/29/24 18:57	ALM	Mt. Juliet, TN

WW-SOUTH L1699138-02 GW

Collected by: BB / HMI Team | Collected date/time: 01/25/24 09:35 | Received date/time: 01/26/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2214321	1	01/27/24 12:50	01/27/24 22:13	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2214883	1	01/28/24 14:27	01/28/24 14:27	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2213797	1	01/26/24 16:59	01/26/24 16:59	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2213797	5	01/26/24 17:15	01/26/24 17:15	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2214167	1	01/28/24 10:23	01/28/24 18:59	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2214859	1	02/01/24 11:03	02/01/24 21:36	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2214111	1	01/30/24 04:50	01/31/24 00:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2217480	1	02/01/24 05:05	02/01/24 05:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2214292	1	01/27/24 04:10	01/27/24 04:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2218743	1	02/02/24 12:48	02/02/24 12:48	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2214556	1	01/27/24 15:10	01/29/24 15:41	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2214422	1	01/27/24 06:17	01/29/24 19:19	ALM	Mt. Juliet, TN

WW-EAST L1699138-03 GW

Collected by: BB / HMI Team | Collected date/time: 01/25/24 11:15 | Received date/time: 01/26/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2214321	1	01/26/24 18:30	01/27/24 22:13	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2214883	1	01/28/24 14:32	01/28/24 14:32	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2213797	1	01/26/24 17:31	01/26/24 17:31	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2214167	1	01/28/24 10:23	01/28/24 19:01	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2214859	1	02/01/24 11:03	02/01/24 21:38	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2214111	1	01/30/24 04:50	01/31/24 01:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2217480	1	02/01/24 05:27	02/01/24 05:27	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2214292	1	01/27/24 04:31	01/27/24 04:31	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2218743	1	02/02/24 13:11	02/02/24 13:11	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2214960	1	01/29/24 07:07	01/30/24 17:33	TGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2217038	1	01/28/24 06:47	02/06/24 20:53	JRM	Mt. Juliet, TN

DUP-01 L1699138-04 GW

Collected by: BB / HMI Team | Collected date/time: 01/25/24 10:00 | Received date/time: 01/26/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2214321	1	01/26/24 18:30	01/27/24 22:13	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2214883	1	01/28/24 14:39	01/28/24 14:39	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2213797	1	01/26/24 18:19	01/26/24 18:19	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2213797	5	01/26/24 18:35	01/26/24 18:35	ASM	Mt. Juliet, TN

SAMPLE SUMMARY

DUP-01 L1699138-04 GW

Collected by: BB / HMI Team
Collected date/time: 01/25/24 10:00
Received date/time: 01/26/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2214167	1	01/28/24 10:23	01/28/24 19:08	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2214859	1	02/01/24 11:03	02/01/24 21:41	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2214111	1	01/30/24 04:50	01/31/24 01:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2217480	1	02/01/24 05:49	02/01/24 05:49	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2214292	1	01/27/24 04:52	01/27/24 04:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2218743	1	02/02/24 13:33	02/02/24 13:33	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2214960	1	01/29/24 07:07	01/30/24 17:54	TGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2217038	1	01/28/24 06:47	02/06/24 21:14	JRM	Mt. Juliet, TN

TRIP BLANK L1699138-05 GW

Collected by: BB / HMI Team
Collected date/time: 01/25/24 00:00
Received date/time: 01/26/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2214292	1	01/26/24 23:28	01/26/24 23:28	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.



Chris McCord
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	540		10.0	1	01/27/2024 22:13	WG2214321

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Alkalinity	185		8.45	20.0	1	01/28/2024 14:20	WG2214883

Sample Narrative:

L1699138-01 WG2214883: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	114	J6	0.379	1.00	1	01/26/2024 15:56	WG2213797
Fluoride	0.877		0.0640	0.150	1	01/26/2024 15:56	WG2213797
Nitrate	3.60		0.0480	0.100	1	01/26/2024 15:56	WG2213797
Nitrite	U		0.0420	0.100	1	01/26/2024 15:56	WG2213797
Sulfate	76.9	J6	0.594	5.00	1	01/26/2024 15:56	WG2213797

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	01/28/2024 18:57	WG2214167

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.151	J	0.0200	0.200	1	02/01/2024 21:33	WG2214859

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	01/31/2024 00:55	WG2214111
Arsenic,Dissolved	0.00630		0.000180	0.00200	1	01/31/2024 00:55	WG2214111
Barium,Dissolved	0.109		0.000381	0.00200	1	01/31/2024 00:55	WG2214111
Cadmium,Dissolved	U		0.000150	0.00100	1	01/31/2024 00:55	WG2214111
Chromium,Dissolved	0.00310		0.00124	0.00200	1	01/31/2024 00:55	WG2214111
Copper,Dissolved	0.00276	J	0.00151	0.00500	1	01/31/2024 00:55	WG2214111
Cobalt,Dissolved	0.0000637	J	0.0000596	0.00200	1	01/31/2024 00:55	WG2214111
Iron,Dissolved	0.104		0.0281	0.100	1	01/31/2024 00:55	WG2214111
Lead,Dissolved	U		0.000849	0.00200	1	01/31/2024 00:55	WG2214111
Manganese,Dissolved	0.00235	J	0.000704	0.00500	1	01/31/2024 00:55	WG2214111
Molybdenum,Dissolved	0.00295	J	0.000348	0.00500	1	01/31/2024 00:55	WG2214111
Nickel,Dissolved	0.000817	J	0.000816	0.00200	1	01/31/2024 00:55	WG2214111
Selenium,Dissolved	0.00341		0.000300	0.00200	1	01/31/2024 00:55	WG2214111
Silver,Dissolved	U		0.0000700	0.00200	1	01/31/2024 00:55	WG2214111
Uranium,Dissolved	0.00190	J	0.0000700	0.0200	1	01/31/2024 00:55	WG2214111
Zinc,Dissolved	0.0156	J	0.00302	0.0250	1	01/31/2024 00:55	WG2214111

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	01/31/2024 20:23	WG2216785
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*78.0-120*		*01/31/2024 20:23*	WG2216785

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	01/27/2024 03:48	WG2214292
Benzene	U		0.0000941	0.00100	1	01/27/2024 03:48	WG2214292
Bromodichloromethane	U		0.000136	0.00100	1	01/27/2024 03:48	WG2214292
Bromoform	U		0.000129	0.00100	1	01/27/2024 03:48	WG2214292
Bromomethane	U		0.000605	0.00500	1	01/27/2024 03:48	WG2214292
n-Butylbenzene	U		0.000157	0.00100	1	01/27/2024 03:48	WG2214292
sec-Butylbenzene	U		0.000125	0.00100	1	01/27/2024 03:48	WG2214292
tert-Butylbenzene	U		0.000127	0.00100	1	01/27/2024 03:48	WG2214292
Carbon disulfide	U		0.0000962	0.00100	1	01/27/2024 03:48	WG2214292
Carbon tetrachloride	U	J4	0.000128	0.00100	1	01/27/2024 03:48	WG2214292
Chlorobenzene	U		0.000116	0.00100	1	01/27/2024 03:48	WG2214292
Chlorodibromomethane	U		0.000140	0.00100	1	01/27/2024 03:48	WG2214292
Chloroethane	U		0.000192	0.00500	1	01/27/2024 03:48	WG2214292
Chloroform	U		0.000111	0.00500	1	02/02/2024 12:27	WG2218743
Chloromethane	U		0.000960	0.00250	1	01/27/2024 03:48	WG2214292
1,2-Dibromoethane	U		0.000126	0.00100	1	01/27/2024 03:48	WG2214292
1,1-Dichloroethane	U		0.000100	0.00100	1	01/27/2024 03:48	WG2214292
1,2-Dichloroethane	U	J4	0.0000819	0.00100	1	01/27/2024 03:48	WG2214292
1,1-Dichloroethene	U		0.000188	0.00100	1	01/27/2024 03:48	WG2214292
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	01/27/2024 03:48	WG2214292
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	01/27/2024 03:48	WG2214292
1,2-Dichloropropane	U		0.000149	0.00100	1	01/27/2024 03:48	WG2214292
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	01/27/2024 03:48	WG2214292
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	01/27/2024 03:48	WG2214292
Ethylbenzene	U		0.000137	0.00100	1	01/27/2024 03:48	WG2214292
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	01/27/2024 03:48	WG2214292
2-Hexanone	U		0.000787	0.0100	1	01/27/2024 03:48	WG2214292
Isopropylbenzene	U		0.000105	0.00100	1	01/27/2024 03:48	WG2214292
p-Isopropyltoluene	U		0.000120	0.00100	1	01/27/2024 03:48	WG2214292
2-Butanone (MEK)	U		0.00119	0.0100	1	01/27/2024 03:48	WG2214292
Methylene Chloride	U		0.000430	0.00500	1	01/27/2024 03:48	WG2214292
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	01/27/2024 03:48	WG2214292
Methyl tert-butyl ether	U		0.000101	0.00100	1	01/27/2024 03:48	WG2214292
Naphthalene	U		0.00100	0.00500	1	01/27/2024 03:48	WG2214292
n-Propylbenzene	U		0.0000993	0.00100	1	01/27/2024 03:48	WG2214292
Styrene	U		0.000118	0.00100	1	01/27/2024 03:48	WG2214292
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	01/27/2024 03:48	WG2214292
Tetrachloroethene	U		0.000300	0.00100	1	01/27/2024 03:48	WG2214292
Toluene	U		0.000278	0.00100	1	01/27/2024 03:48	WG2214292
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	01/27/2024 03:48	WG2214292
1,1,2-Trichloroethane	U		0.000158	0.00100	1	01/27/2024 03:48	WG2214292
Trichloroethene	U		0.000190	0.00100	1	01/27/2024 03:48	WG2214292
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	01/27/2024 03:48	WG2214292
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	01/27/2024 03:48	WG2214292
Vinyl chloride	U		0.000234	0.00100	1	01/27/2024 03:48	WG2214292
Xylenes, Total	U		0.000174	0.00300	1	01/27/2024 03:48	WG2214292
(S) Toluene-d8	*103*			*80.0-120*		*01/27/2024 03:48*	WG2214292
(S) Toluene-d8	*99.4*			*80.0-120*		*02/02/2024 12:27*	WG2218743
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*01/27/2024 03:48*	WG2214292

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*02/02/2024 12:27*	WG2218743
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*01/27/2024 03:48*	WG2214292
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*02/02/2024 12:27*	WG2218743

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0688	B J	0.0247	0.100	1	01/29/2024 16:01	WG2214556
(S) o-Terphenyl	*78.4*			*31.0-160*		*01/29/2024 16:01*	WG2214556

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	01/29/2024 18:57	WG2214422
Acenaphthylene	U		0.0000921	0.00100	1	01/29/2024 18:57	WG2214422
Acetophenone	U		0.000208	0.0100	1	01/29/2024 18:57	WG2214422
Anthracene	U		0.0000804	0.00100	1	01/29/2024 18:57	WG2214422
Atrazine	U		0.000255	0.0100	1	01/29/2024 18:57	WG2214422
Benzo(a)anthracene	U		0.000199	0.00100	1	01/29/2024 18:57	WG2214422
Benzaldehyde	U		0.00169	0.0100	1	01/29/2024 18:57	WG2214422
Benzo(b)fluoranthene	U		0.000130	0.00100	1	01/29/2024 18:57	WG2214422
Benzo(k)fluoranthene	U		0.000120	0.00100	1	01/29/2024 18:57	WG2214422
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	01/29/2024 18:57	WG2214422
Benzo(a)pyrene	U		0.0000381	0.000200	1	01/29/2024 18:57	WG2214422
Biphenyl	U		0.000790	0.0100	1	01/29/2024 18:57	WG2214422
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	01/29/2024 18:57	WG2214422
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	01/29/2024 18:57	WG2214422
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	01/29/2024 18:57	WG2214422
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	01/29/2024 18:57	WG2214422
2-Chloronaphthalene	U		0.0000648	0.00100	1	01/29/2024 18:57	WG2214422
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	01/29/2024 18:57	WG2214422
Caprolactam	U		0.000309	0.0100	1	01/29/2024 18:57	WG2214422
Carbazole	U		0.000111	0.0100	1	01/29/2024 18:57	WG2214422
Chrysene	U		0.000130	0.00100	1	01/29/2024 18:57	WG2214422
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	01/29/2024 18:57	WG2214422
Dibenzofuran	U		0.0000970	0.0100	1	01/29/2024 18:57	WG2214422
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	01/29/2024 18:57	WG2214422
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	01/29/2024 18:57	WG2214422
2,6-Dinitrotoluene	U		0.000250	0.0100	1	01/29/2024 18:57	WG2214422
Fluoranthene	U		0.000102	0.00100	1	01/29/2024 18:57	WG2214422
Fluorene	U		0.0000844	0.00100	1	01/29/2024 18:57	WG2214422
Hexachlorobenzene	U		0.0000755	0.00100	1	01/29/2024 18:57	WG2214422
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	01/29/2024 18:57	WG2214422
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	01/29/2024 18:57	WG2214422
Hexachloroethane	U		0.000127	0.0100	1	01/29/2024 18:57	WG2214422
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	01/29/2024 18:57	WG2214422
Isophorone	U		0.000143	0.0100	1	01/29/2024 18:57	WG2214422
1-Methylnaphthalene	U		0.0000790	0.00100	1	01/29/2024 18:57	WG2214422
2-Methylnaphthalene	U		0.000117	0.00100	1	01/29/2024 18:57	WG2214422
Naphthalene	U		0.000159	0.00100	1	01/29/2024 18:57	WG2214422
Nitrobenzene	U		0.000297	0.0100	1	01/29/2024 18:57	WG2214422
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	01/29/2024 18:57	WG2214422
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	01/29/2024 18:57	WG2214422
Phenanthrene	U		0.000112	0.00100	1	01/29/2024 18:57	WG2214422
Benzylbutyl phthalate	U		0.000765	0.00300	1	01/29/2024 18:57	WG2214422

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	01/29/2024 18:57	WG2214422
Di-n-butyl phthalate	U		0.000453	0.00300	1	01/29/2024 18:57	WG2214422
Diethyl phthalate	U		0.000287	0.00300	1	01/29/2024 18:57	WG2214422
Dimethyl phthalate	U		0.000260	0.00300	1	01/29/2024 18:57	WG2214422
Di-n-octyl phthalate	U		0.000932	0.00300	1	01/29/2024 18:57	WG2214422
Pyrene	U		0.000107	0.00100	1	01/29/2024 18:57	WG2214422
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	01/29/2024 18:57	WG2214422
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	01/29/2024 18:57	WG2214422
2-Chlorophenol	U		0.000133	0.0100	1	01/29/2024 18:57	WG2214422
2,4-Dichlorophenol	U		0.000102	0.0100	1	01/29/2024 18:57	WG2214422
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	01/29/2024 18:57	WG2214422
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	01/29/2024 18:57	WG2214422
2,4-Dinitrophenol	U		0.00593	0.0100	1	01/29/2024 18:57	WG2214422
2-Nitrophenol	U		0.000117	0.0100	1	01/29/2024 18:57	WG2214422
2-Nitroaniline	U		0.000102	0.0100	1	01/29/2024 18:57	WG2214422
2-Methylphenol	U	J3	0.0000929	0.0100	1	01/29/2024 18:57	WG2214422
3&4-Methyl Phenol	U		0.000168	0.0100	1	01/29/2024 18:57	WG2214422
3-Nitroaniline	U		0.0000869	0.0100	1	01/29/2024 18:57	WG2214422
4-Chloroaniline	U		0.000234	0.0100	1	01/29/2024 18:57	WG2214422
4-Nitroaniline	U		0.0000910	0.0100	1	01/29/2024 18:57	WG2214422
4-Nitrophenol	U		0.000143	0.0100	1	01/29/2024 18:57	WG2214422
Pentachlorophenol	U		0.000313	0.0100	1	01/29/2024 18:57	WG2214422
Phenol	U		0.00433	0.0100	1	01/29/2024 18:57	WG2214422
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	01/29/2024 18:57	WG2214422
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	01/29/2024 18:57	WG2214422
(S) 2-Fluorophenol	*24.3*			*10.0-120*		*01/29/2024 18:57*	WG2214422
(S) Phenol-d5	*16.9*			*10.0-120*		*01/29/2024 18:57*	WG2214422
(S) Nitrobenzene-d5	*49.6*			*10.0-127*		*01/29/2024 18:57*	WG2214422
(S) 2-Fluorobiphenyl	*64.6*			*10.0-130*		*01/29/2024 18:57*	WG2214422
(S) 2,4,6-Tribromophenol	*57.0*			*10.0-155*		*01/29/2024 18:57*	WG2214422
(S) p-Terphenyl-d14	*79.2*			*10.0-128*		*01/29/2024 18:57*	WG2214422

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	812		13.3	1	01/27/2024 22:13	WG2214321

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	189		8.45	20.0	1	01/28/2024 14:27	WG2214883

Sample Narrative:

L1699138-02 WG2214883: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	232		1.90	5.00	5	01/26/2024 17:15	WG2213797
Fluoride	0.696		0.0640	0.150	1	01/26/2024 16:59	WG2213797
Nitrate	3.72		0.0480	0.100	1	01/26/2024 16:59	WG2213797
Nitrite	U		0.0420	0.100	1	01/26/2024 16:59	WG2213797
Sulfate	83.1		0.594	5.00	1	01/26/2024 16:59	WG2213797

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	01/28/2024 18:59	WG2214167

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.172	J	0.0200	0.200	1	02/01/2024 21:36	WG2214859

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	0.0328	J	0.0185	0.100	1	01/31/2024 00:59	WG2214111
Arsenic,Dissolved	0.00478		0.000180	0.00200	1	01/31/2024 00:59	WG2214111
Barium,Dissolved	0.108		0.000381	0.00200	1	01/31/2024 00:59	WG2214111
Cadmium,Dissolved	U		0.000150	0.00100	1	01/31/2024 00:59	WG2214111
Chromium,Dissolved	U		0.00124	0.00200	1	01/31/2024 00:59	WG2214111
Copper,Dissolved	0.00193	J	0.00151	0.00500	1	01/31/2024 00:59	WG2214111
Cobalt,Dissolved	0.0000794	J	0.0000596	0.00200	1	01/31/2024 00:59	WG2214111
Iron,Dissolved	0.205		0.0281	0.100	1	01/31/2024 00:59	WG2214111
Lead,Dissolved	0.000856	J	0.000849	0.00200	1	01/31/2024 00:59	WG2214111
Manganese,Dissolved	0.00295	J	0.000704	0.00500	1	01/31/2024 00:59	WG2214111
Molybdenum,Dissolved	0.00212	J	0.000348	0.00500	1	01/31/2024 00:59	WG2214111
Nickel,Dissolved	0.00372		0.000816	0.00200	1	01/31/2024 00:59	WG2214111
Selenium,Dissolved	0.00365		0.000300	0.00200	1	01/31/2024 00:59	WG2214111
Silver,Dissolved	U		0.0000700	0.00200	1	01/31/2024 00:59	WG2214111
Uranium,Dissolved	0.00213	J	0.0000700	0.0200	1	01/31/2024 00:59	WG2214111
Zinc,Dissolved	0.0291		0.00302	0.0250	1	01/31/2024 00:59	WG2214111

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	02/01/2024 05:05	WG2217480
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*02/01/2024 05:05*	WG2217480

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	01/27/2024 04:10	WG2214292
Benzene	U		0.0000941	0.00100	1	01/27/2024 04:10	WG2214292
Bromodichloromethane	U		0.000136	0.00100	1	01/27/2024 04:10	WG2214292
Bromoform	U		0.000129	0.00100	1	01/27/2024 04:10	WG2214292
Bromomethane	U		0.000605	0.00500	1	01/27/2024 04:10	WG2214292
n-Butylbenzene	U		0.000157	0.00100	1	01/27/2024 04:10	WG2214292
sec-Butylbenzene	U		0.000125	0.00100	1	01/27/2024 04:10	WG2214292
tert-Butylbenzene	U		0.000127	0.00100	1	01/27/2024 04:10	WG2214292
Carbon disulfide	U		0.0000962	0.00100	1	01/27/2024 04:10	WG2214292
Carbon tetrachloride	0.000309	J J4	0.000128	0.00100	1	01/27/2024 04:10	WG2214292
Chlorobenzene	U		0.000116	0.00100	1	01/27/2024 04:10	WG2214292
Chlorodibromomethane	U		0.000140	0.00100	1	01/27/2024 04:10	WG2214292
Chloroethane	U		0.000192	0.00500	1	01/27/2024 04:10	WG2214292
Chloroform	0.000701	J	0.000111	0.00500	1	02/02/2024 12:48	WG2218743
Chloromethane	U		0.000960	0.00250	1	01/27/2024 04:10	WG2214292
1,2-Dibromoethane	U		0.000126	0.00100	1	01/27/2024 04:10	WG2214292
1,1-Dichloroethane	U		0.000100	0.00100	1	01/27/2024 04:10	WG2214292
1,2-Dichloroethane	U	J4	0.0000819	0.00100	1	01/27/2024 04:10	WG2214292
1,1-Dichloroethene	U		0.000188	0.00100	1	01/27/2024 04:10	WG2214292
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	01/27/2024 04:10	WG2214292
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	01/27/2024 04:10	WG2214292
1,2-Dichloropropane	U		0.000149	0.00100	1	01/27/2024 04:10	WG2214292
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	01/27/2024 04:10	WG2214292
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	01/27/2024 04:10	WG2214292
Ethylbenzene	U		0.000137	0.00100	1	01/27/2024 04:10	WG2214292
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	01/27/2024 04:10	WG2214292
2-Hexanone	U		0.000787	0.0100	1	01/27/2024 04:10	WG2214292
Isopropylbenzene	U		0.000105	0.00100	1	01/27/2024 04:10	WG2214292
p-Isopropyltoluene	U		0.000120	0.00100	1	01/27/2024 04:10	WG2214292
2-Butanone (MEK)	U		0.00119	0.0100	1	01/27/2024 04:10	WG2214292
Methylene Chloride	U		0.000430	0.00500	1	01/27/2024 04:10	WG2214292
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	01/27/2024 04:10	WG2214292
Methyl tert-butyl ether	U		0.000101	0.00100	1	01/27/2024 04:10	WG2214292
Naphthalene	U		0.00100	0.00500	1	01/27/2024 04:10	WG2214292
n-Propylbenzene	U		0.0000993	0.00100	1	01/27/2024 04:10	WG2214292
Styrene	U		0.000118	0.00100	1	01/27/2024 04:10	WG2214292
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	01/27/2024 04:10	WG2214292
Tetrachloroethene	U		0.000300	0.00100	1	01/27/2024 04:10	WG2214292
Toluene	U		0.000278	0.00100	1	01/27/2024 04:10	WG2214292
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	01/27/2024 04:10	WG2214292
1,1,2-Trichloroethane	U		0.000158	0.00100	1	01/27/2024 04:10	WG2214292
Trichloroethene	U		0.000190	0.00100	1	01/27/2024 04:10	WG2214292
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	01/27/2024 04:10	WG2214292
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	01/27/2024 04:10	WG2214292
Vinyl chloride	U		0.000234	0.00100	1	01/27/2024 04:10	WG2214292
Xylenes, Total	U		0.000174	0.00300	1	01/27/2024 04:10	WG2214292
(S) Toluene-d8	*93.5*			*80.0-120*		*01/27/2024 04:10*	WG2214292
(S) Toluene-d8	*101*			*80.0-120*		*02/02/2024 12:48*	WG2218743
(S) 4-Bromofluorobenzene	*95.6*			*77.0-126*		*01/27/2024 04:10*	WG2214292

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*02/02/2024 12:48*	WG2218743
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*01/27/2024 04:10*	WG2214292
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*02/02/2024 12:48*	WG2218743

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0720	B J	0.0247	0.100	1	01/29/2024 15:41	WG2214556
(S) o-Terphenyl	*75.8*			*31.0-160*		*01/29/2024 15:41*	WG2214556

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	01/29/2024 19:19	WG2214422
Acenaphthylene	U		0.0000921	0.00100	1	01/29/2024 19:19	WG2214422
Acetophenone	U		0.000208	0.0100	1	01/29/2024 19:19	WG2214422
Anthracene	U		0.0000804	0.00100	1	01/29/2024 19:19	WG2214422
Atrazine	U		0.000255	0.0100	1	01/29/2024 19:19	WG2214422
Benzo(a)anthracene	U		0.000199	0.00100	1	01/29/2024 19:19	WG2214422
Benzaldehyde	U		0.00169	0.0100	1	01/29/2024 19:19	WG2214422
Benzo(b)fluoranthene	U		0.000130	0.00100	1	01/29/2024 19:19	WG2214422
Benzo(k)fluoranthene	U		0.000120	0.00100	1	01/29/2024 19:19	WG2214422
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	01/29/2024 19:19	WG2214422
Benzo(a)pyrene	U		0.0000381	0.000200	1	01/29/2024 19:19	WG2214422
Biphenyl	U		0.000790	0.0100	1	01/29/2024 19:19	WG2214422
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	01/29/2024 19:19	WG2214422
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	01/29/2024 19:19	WG2214422
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	01/29/2024 19:19	WG2214422
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	01/29/2024 19:19	WG2214422
2-Chloronaphthalene	U		0.0000648	0.00100	1	01/29/2024 19:19	WG2214422
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	01/29/2024 19:19	WG2214422
Caprolactam	U		0.000309	0.0100	1	01/29/2024 19:19	WG2214422
Carbazole	U		0.000111	0.0100	1	01/29/2024 19:19	WG2214422
Chrysene	U		0.000130	0.00100	1	01/29/2024 19:19	WG2214422
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	01/29/2024 19:19	WG2214422
Dibenzofuran	U		0.0000970	0.0100	1	01/29/2024 19:19	WG2214422
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	01/29/2024 19:19	WG2214422
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	01/29/2024 19:19	WG2214422
2,6-Dinitrotoluene	U		0.000250	0.0100	1	01/29/2024 19:19	WG2214422
Fluoranthene	U		0.000102	0.00100	1	01/29/2024 19:19	WG2214422
Fluorene	U		0.0000844	0.00100	1	01/29/2024 19:19	WG2214422
Hexachlorobenzene	U		0.0000755	0.00100	1	01/29/2024 19:19	WG2214422
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	01/29/2024 19:19	WG2214422
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	01/29/2024 19:19	WG2214422
Hexachloroethane	U		0.000127	0.0100	1	01/29/2024 19:19	WG2214422
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	01/29/2024 19:19	WG2214422
Isophorone	U		0.000143	0.0100	1	01/29/2024 19:19	WG2214422
1-Methylnaphthalene	U		0.0000790	0.00100	1	01/29/2024 19:19	WG2214422
2-Methylnaphthalene	U		0.000117	0.00100	1	01/29/2024 19:19	WG2214422
Naphthalene	U		0.000159	0.00100	1	01/29/2024 19:19	WG2214422
Nitrobenzene	U		0.000297	0.0100	1	01/29/2024 19:19	WG2214422
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	01/29/2024 19:19	WG2214422
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	01/29/2024 19:19	WG2214422
Phenanthrene	U		0.000112	0.00100	1	01/29/2024 19:19	WG2214422
Benzylbutyl phthalate	U		0.000765	0.00300	1	01/29/2024 19:19	WG2214422

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	01/29/2024 19:19	WG2214422
Di-n-butyl phthalate	U		0.000453	0.00300	1	01/29/2024 19:19	WG2214422
Diethyl phthalate	U		0.000287	0.00300	1	01/29/2024 19:19	WG2214422
Dimethyl phthalate	U		0.000260	0.00300	1	01/29/2024 19:19	WG2214422
Di-n-octyl phthalate	U		0.000932	0.00300	1	01/29/2024 19:19	WG2214422
Pyrene	U		0.000107	0.00100	1	01/29/2024 19:19	WG2214422
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	01/29/2024 19:19	WG2214422
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	01/29/2024 19:19	WG2214422
2-Chlorophenol	U		0.000133	0.0100	1	01/29/2024 19:19	WG2214422
2,4-Dichlorophenol	U		0.000102	0.0100	1	01/29/2024 19:19	WG2214422
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	01/29/2024 19:19	WG2214422
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	01/29/2024 19:19	WG2214422
2,4-Dinitrophenol	U		0.00593	0.0100	1	01/29/2024 19:19	WG2214422
2-Nitrophenol	U		0.000117	0.0100	1	01/29/2024 19:19	WG2214422
2-Nitroaniline	U		0.000102	0.0100	1	01/29/2024 19:19	WG2214422
2-Methylphenol	U	J3	0.0000929	0.0100	1	01/29/2024 19:19	WG2214422
3&4-Methyl Phenol	U		0.000168	0.0100	1	01/29/2024 19:19	WG2214422
3-Nitroaniline	U		0.0000869	0.0100	1	01/29/2024 19:19	WG2214422
4-Chloroaniline	U		0.000234	0.0100	1	01/29/2024 19:19	WG2214422
4-Nitroaniline	U		0.0000910	0.0100	1	01/29/2024 19:19	WG2214422
4-Nitrophenol	U		0.000143	0.0100	1	01/29/2024 19:19	WG2214422
Pentachlorophenol	U		0.000313	0.0100	1	01/29/2024 19:19	WG2214422
Phenol	U		0.00433	0.0100	1	01/29/2024 19:19	WG2214422
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	01/29/2024 19:19	WG2214422
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	01/29/2024 19:19	WG2214422
(S) 2-Fluorophenol	*27.3*			*10.0-120*		*01/29/2024 19:19*	WG2214422
(S) Phenol-d5	*17.5*			*10.0-120*		*01/29/2024 19:19*	WG2214422
(S) Nitrobenzene-d5	*51.8*			*10.0-127*		*01/29/2024 19:19*	WG2214422
(S) 2-Fluorobiphenyl	*63.5*			*10.0-130*		*01/29/2024 19:19*	WG2214422
(S) 2,4,6-Tribromophenol	*62.0*			*10.0-155*		*01/29/2024 19:19*	WG2214422
(S) p-Terphenyl-d14	*79.4*			*10.0-128*		*01/29/2024 19:19*	WG2214422

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	499		10.0	1	01/27/2024 22:13	WG2214321

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Alkalinity	179		8.45	20.0	1	01/28/2024 14:32	WG2214883

Sample Narrative:

L1699138-03 WG2214883: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	96.0		0.379	1.00	1	01/26/2024 17:31	WG2213797
Fluoride	0.868		0.0640	0.150	1	01/26/2024 17:31	WG2213797
Nitrate	3.47		0.0480	0.100	1	01/26/2024 17:31	WG2213797
Nitrite	U		0.0420	0.100	1	01/26/2024 17:31	WG2213797
Sulfate	80.4		0.594	5.00	1	01/26/2024 17:31	WG2213797

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	01/28/2024 19:01	WG2214167

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.158	J	0.0200	0.200	1	02/01/2024 21:38	WG2214859

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	01/31/2024 01:02	WG2214111
Arsenic,Dissolved	0.00526		0.000180	0.00200	1	01/31/2024 01:02	WG2214111
Barium,Dissolved	0.116		0.000381	0.00200	1	01/31/2024 01:02	WG2214111
Cadmium,Dissolved	U		0.000150	0.00100	1	01/31/2024 01:02	WG2214111
Chromium,Dissolved	0.00328		0.00124	0.00200	1	01/31/2024 01:02	WG2214111
Copper,Dissolved	0.00411	J	0.00151	0.00500	1	01/31/2024 01:02	WG2214111
Cobalt,Dissolved	0.0000750	J	0.0000596	0.00200	1	01/31/2024 01:02	WG2214111
Iron,Dissolved	0.0604	J	0.0281	0.100	1	01/31/2024 01:02	WG2214111
Lead,Dissolved	U		0.000849	0.00200	1	01/31/2024 01:02	WG2214111
Manganese,Dissolved	0.00481	J	0.000704	0.00500	1	01/31/2024 01:02	WG2214111
Molybdenum,Dissolved	0.00256	J	0.000348	0.00500	1	01/31/2024 01:02	WG2214111
Nickel,Dissolved	0.00607		0.000816	0.00200	1	01/31/2024 01:02	WG2214111
Selenium,Dissolved	0.00437		0.000300	0.00200	1	01/31/2024 01:02	WG2214111
Silver,Dissolved	U		0.0000700	0.00200	1	01/31/2024 01:02	WG2214111
Uranium,Dissolved	0.00195	J	0.0000700	0.0200	1	01/31/2024 01:02	WG2214111
Zinc,Dissolved	0.161		0.00302	0.0250	1	01/31/2024 01:02	WG2214111

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	02/01/2024 05:27	WG2217480
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*78.0-120*		*02/01/2024 05:27*	WG2217480

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	01/27/2024 04:31	WG2214292
Benzene	U		0.0000941	0.00100	1	01/27/2024 04:31	WG2214292
Bromodichloromethane	U		0.000136	0.00100	1	01/27/2024 04:31	WG2214292
Bromoform	U		0.000129	0.00100	1	01/27/2024 04:31	WG2214292
Bromomethane	U		0.000605	0.00500	1	01/27/2024 04:31	WG2214292
n-Butylbenzene	U		0.000157	0.00100	1	01/27/2024 04:31	WG2214292
sec-Butylbenzene	U		0.000125	0.00100	1	01/27/2024 04:31	WG2214292
tert-Butylbenzene	U		0.000127	0.00100	1	01/27/2024 04:31	WG2214292
Carbon disulfide	U		0.0000962	0.00100	1	01/27/2024 04:31	WG2214292
Carbon tetrachloride	U	J4	0.000128	0.00100	1	01/27/2024 04:31	WG2214292
Chlorobenzene	U		0.000116	0.00100	1	01/27/2024 04:31	WG2214292
Chlorodibromomethane	U		0.000140	0.00100	1	01/27/2024 04:31	WG2214292
Chloroethane	U		0.000192	0.00500	1	01/27/2024 04:31	WG2214292
Chloroform	U		0.000111	0.00500	1	02/02/2024 13:11	WG2218743
Chloromethane	U		0.000960	0.00250	1	01/27/2024 04:31	WG2214292
1,2-Dibromoethane	U		0.000126	0.00100	1	01/27/2024 04:31	WG2214292
1,1-Dichloroethane	U		0.000100	0.00100	1	01/27/2024 04:31	WG2214292
1,2-Dichloroethane	U	J4	0.0000819	0.00100	1	01/27/2024 04:31	WG2214292
1,1-Dichloroethene	U		0.000188	0.00100	1	01/27/2024 04:31	WG2214292
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	01/27/2024 04:31	WG2214292
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	01/27/2024 04:31	WG2214292
1,2-Dichloropropane	U		0.000149	0.00100	1	01/27/2024 04:31	WG2214292
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	01/27/2024 04:31	WG2214292
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	01/27/2024 04:31	WG2214292
Ethylbenzene	U		0.000137	0.00100	1	01/27/2024 04:31	WG2214292
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	01/27/2024 04:31	WG2214292
2-Hexanone	U		0.000787	0.0100	1	01/27/2024 04:31	WG2214292
Isopropylbenzene	U		0.000105	0.00100	1	01/27/2024 04:31	WG2214292
p-Isopropyltoluene	U		0.000120	0.00100	1	01/27/2024 04:31	WG2214292
2-Butanone (MEK)	U		0.00119	0.0100	1	01/27/2024 04:31	WG2214292
Methylene Chloride	U		0.000430	0.00500	1	01/27/2024 04:31	WG2214292
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	01/27/2024 04:31	WG2214292
Methyl tert-butyl ether	U		0.000101	0.00100	1	01/27/2024 04:31	WG2214292
Naphthalene	U		0.00100	0.00500	1	01/27/2024 04:31	WG2214292
n-Propylbenzene	U		0.0000993	0.00100	1	01/27/2024 04:31	WG2214292
Styrene	U		0.000118	0.00100	1	01/27/2024 04:31	WG2214292
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	01/27/2024 04:31	WG2214292
Tetrachloroethene	U		0.000300	0.00100	1	01/27/2024 04:31	WG2214292
Toluene	U		0.000278	0.00100	1	01/27/2024 04:31	WG2214292
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	01/27/2024 04:31	WG2214292
1,1,2-Trichloroethane	U		0.000158	0.00100	1	01/27/2024 04:31	WG2214292
Trichloroethene	U		0.000190	0.00100	1	01/27/2024 04:31	WG2214292
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	01/27/2024 04:31	WG2214292
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	01/27/2024 04:31	WG2214292
Vinyl chloride	U		0.000234	0.00100	1	01/27/2024 04:31	WG2214292
Xylenes, Total	U		0.000174	0.00300	1	01/27/2024 04:31	WG2214292
(S) Toluene-d8	*107*			*80.0-120*		*01/27/2024 04:31*	WG2214292
(S) Toluene-d8	*87.9*			*80.0-120*		*02/02/2024 13:11*	WG2218743
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*01/27/2024 04:31*	WG2214292

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*67.8*	J2		*77.0-126*		*02/02/2024 13:11*	WG2218743
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*01/27/2024 04:31*	WG2214292
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*02/02/2024 13:11*	WG2218743

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0373	J	0.0247	0.100	1	01/30/2024 17:33	WG2214960
(S) o-Terphenyl	*84.2*			*31.0-160*		*01/30/2024 17:33*	WG2214960

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	02/06/2024 20:53	WG2217038
Acenaphthylene	U		0.0000921	0.00100	1	02/06/2024 20:53	WG2217038
Acetophenone	U		0.000208	0.0100	1	02/06/2024 20:53	WG2217038
Anthracene	U		0.0000804	0.00100	1	02/06/2024 20:53	WG2217038
Atrazine	U		0.000255	0.0100	1	02/06/2024 20:53	WG2217038
Benzo(a)anthracene	U		0.000199	0.00100	1	02/06/2024 20:53	WG2217038
Benzaldehyde	U	J4	0.00169	0.0100	1	02/06/2024 20:53	WG2217038
Benzo(b)fluoranthene	U		0.000130	0.00100	1	02/06/2024 20:53	WG2217038
Benzo(k)fluoranthene	U		0.000120	0.00100	1	02/06/2024 20:53	WG2217038
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	02/06/2024 20:53	WG2217038
Benzo(a)pyrene	U		0.0000381	0.000200	1	02/06/2024 20:53	WG2217038
Biphenyl	U		0.000790	0.0100	1	02/06/2024 20:53	WG2217038
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	02/06/2024 20:53	WG2217038
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	02/06/2024 20:53	WG2217038
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	02/06/2024 20:53	WG2217038
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	02/06/2024 20:53	WG2217038
2-Chloronaphthalene	U		0.0000648	0.00100	1	02/06/2024 20:53	WG2217038
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	02/06/2024 20:53	WG2217038
Caprolactam	U		0.000309	0.0100	1	02/06/2024 20:53	WG2217038
Carbazole	U		0.000111	0.0100	1	02/06/2024 20:53	WG2217038
Chrysene	U		0.000130	0.00100	1	02/06/2024 20:53	WG2217038
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	02/06/2024 20:53	WG2217038
Dibenzofuran	U		0.0000970	0.0100	1	02/06/2024 20:53	WG2217038
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	02/06/2024 20:53	WG2217038
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	02/06/2024 20:53	WG2217038
2,6-Dinitrotoluene	U		0.000250	0.0100	1	02/06/2024 20:53	WG2217038
Fluoranthene	U		0.000102	0.00100	1	02/06/2024 20:53	WG2217038
Fluorene	U		0.0000844	0.00100	1	02/06/2024 20:53	WG2217038
Hexachlorobenzene	U		0.0000755	0.00100	1	02/06/2024 20:53	WG2217038
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	02/06/2024 20:53	WG2217038
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	02/06/2024 20:53	WG2217038
Hexachloroethane	U		0.000127	0.0100	1	02/06/2024 20:53	WG2217038
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	02/06/2024 20:53	WG2217038
Isophorone	U		0.000143	0.0100	1	02/06/2024 20:53	WG2217038
1-Methylnaphthalene	U		0.0000790	0.00100	1	02/06/2024 20:53	WG2217038
2-Methylnaphthalene	U		0.000117	0.00100	1	02/06/2024 20:53	WG2217038
Naphthalene	U		0.000159	0.00100	1	02/06/2024 20:53	WG2217038
Nitrobenzene	U		0.000297	0.0100	1	02/06/2024 20:53	WG2217038
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	02/06/2024 20:53	WG2217038
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	02/06/2024 20:53	WG2217038
Phenanthrene	U		0.000112	0.00100	1	02/06/2024 20:53	WG2217038
Benzylbutyl phthalate	U		0.000765	0.00300	1	02/06/2024 20:53	WG2217038

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	02/06/2024 20:53	WG2217038
Di-n-butyl phthalate	U		0.000453	0.00300	1	02/06/2024 20:53	WG2217038
Diethyl phthalate	U		0.000287	0.00300	1	02/06/2024 20:53	WG2217038
Dimethyl phthalate	U		0.000260	0.00300	1	02/06/2024 20:53	WG2217038
Di-n-octyl phthalate	U		0.000932	0.00300	1	02/06/2024 20:53	WG2217038
Pyrene	U		0.000107	0.00100	1	02/06/2024 20:53	WG2217038
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	02/06/2024 20:53	WG2217038
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	02/06/2024 20:53	WG2217038
2-Chlorophenol	U		0.000133	0.0100	1	02/06/2024 20:53	WG2217038
2,4-Dichlorophenol	U		0.000102	0.0100	1	02/06/2024 20:53	WG2217038
2,4-Dimethylphenol	U		0.0000636	0.0100	1	02/06/2024 20:53	WG2217038
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	02/06/2024 20:53	WG2217038
2,4-Dinitrophenol	U		0.00593	0.0100	1	02/06/2024 20:53	WG2217038
2-Nitrophenol	U		0.000117	0.0100	1	02/06/2024 20:53	WG2217038
2-Nitroaniline	U		0.000102	0.0100	1	02/06/2024 20:53	WG2217038
2-Methylphenol	U		0.0000929	0.0100	1	02/06/2024 20:53	WG2217038
3&4-Methyl Phenol	U		0.000168	0.0100	1	02/06/2024 20:53	WG2217038
3-Nitroaniline	U		0.0000869	0.0100	1	02/06/2024 20:53	WG2217038
4-Chloroaniline	U		0.000234	0.0100	1	02/06/2024 20:53	WG2217038
4-Nitroaniline	U		0.0000910	0.0100	1	02/06/2024 20:53	WG2217038
4-Nitrophenol	U	J4	0.000143	0.0100	1	02/06/2024 20:53	WG2217038
Pentachlorophenol	U		0.000313	0.0100	1	02/06/2024 20:53	WG2217038
Phenol	U		0.00433	0.0100	1	02/06/2024 20:53	WG2217038
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	02/06/2024 20:53	WG2217038
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	02/06/2024 20:53	WG2217038
(S) 2-Fluorophenol	*30.3*			*10.0-120*		*02/06/2024 20:53*	WG2217038
(S) Phenol-d5	*21.1*			*10.0-120*		*02/06/2024 20:53*	WG2217038
(S) Nitrobenzene-d5	*55.7*			*10.0-127*		*02/06/2024 20:53*	WG2217038
(S) 2-Fluorobiphenyl	*70.3*			*10.0-130*		*02/06/2024 20:53*	WG2217038
(S) 2,4,6-Tribromophenol	*75.8*			*10.0-155*		*02/06/2024 20:53*	WG2217038
(S) p-Terphenyl-d14	*84.5*			*10.0-128*		*02/06/2024 20:53*	WG2217038

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	808		13.3	1	01/27/2024 22:13	WG2214321

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	189		8.45	20.0	1	01/28/2024 14:39	WG2214883

Sample Narrative:

L1699138-04 WG2214883: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	233		1.90	5.00	5	01/26/2024 18:35	WG2213797
Fluoride	0.748		0.0640	0.150	1	01/26/2024 18:19	WG2213797
Nitrate	3.71		0.0480	0.100	1	01/26/2024 18:19	WG2213797
Nitrite	U		0.0420	0.100	1	01/26/2024 18:19	WG2213797
Sulfate	83.0		0.594	5.00	1	01/26/2024 18:19	WG2213797

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	01/28/2024 19:08	WG2214167

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.173	J	0.0200	0.200	1	02/01/2024 21:41	WG2214859

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	01/31/2024 01:05	WG2214111
Arsenic,Dissolved	0.00452		0.000180	0.00200	1	01/31/2024 01:05	WG2214111
Barium,Dissolved	0.111		0.000381	0.00200	1	01/31/2024 01:05	WG2214111
Cadmium,Dissolved	U		0.000150	0.00100	1	01/31/2024 01:05	WG2214111
Chromium,Dissolved	U		0.00124	0.00200	1	01/31/2024 01:05	WG2214111
Copper,Dissolved	U		0.00151	0.00500	1	01/31/2024 01:05	WG2214111
Cobalt,Dissolved	U		0.0000596	0.00200	1	01/31/2024 01:05	WG2214111
Iron,Dissolved	0.195		0.0281	0.100	1	01/31/2024 01:05	WG2214111
Lead,Dissolved	U		0.000849	0.00200	1	01/31/2024 01:05	WG2214111
Manganese,Dissolved	0.00281	J	0.000704	0.00500	1	01/31/2024 01:05	WG2214111
Molybdenum,Dissolved	0.00225	J	0.000348	0.00500	1	01/31/2024 01:05	WG2214111
Nickel,Dissolved	0.00268		0.000816	0.00200	1	01/31/2024 01:05	WG2214111
Selenium,Dissolved	0.00365		0.000300	0.00200	1	01/31/2024 01:05	WG2214111
Silver,Dissolved	U		0.0000700	0.00200	1	01/31/2024 01:05	WG2214111
Uranium,Dissolved	0.00223	J	0.0000700	0.0200	1	01/31/2024 01:05	WG2214111
Zinc,Dissolved	0.0276		0.00302	0.0250	1	01/31/2024 01:05	WG2214111

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	02/01/2024 05:49	WG2217480
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*02/01/2024 05:49*	WG2217480

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	01/27/2024 04:52	WG2214292
Benzene	U		0.0000941	0.00100	1	01/27/2024 04:52	WG2214292
Bromodichloromethane	U		0.000136	0.00100	1	01/27/2024 04:52	WG2214292
Bromoform	U		0.000129	0.00100	1	01/27/2024 04:52	WG2214292
Bromomethane	U		0.000605	0.00500	1	01/27/2024 04:52	WG2214292
n-Butylbenzene	U		0.000157	0.00100	1	01/27/2024 04:52	WG2214292
sec-Butylbenzene	U		0.000125	0.00100	1	01/27/2024 04:52	WG2214292
tert-Butylbenzene	U		0.000127	0.00100	1	01/27/2024 04:52	WG2214292
Carbon disulfide	U		0.0000962	0.00100	1	01/27/2024 04:52	WG2214292
Carbon tetrachloride	0.000457	J J4	0.000128	0.00100	1	01/27/2024 04:52	WG2214292
Chlorobenzene	U		0.000116	0.00100	1	01/27/2024 04:52	WG2214292
Chlorodibromomethane	U		0.000140	0.00100	1	01/27/2024 04:52	WG2214292
Chloroethane	U		0.000192	0.00500	1	01/27/2024 04:52	WG2214292
Chloroform	0.000658	J	0.000111	0.00500	1	02/02/2024 13:33	WG2218743
Chloromethane	U		0.000960	0.00250	1	01/27/2024 04:52	WG2214292
1,2-Dibromoethane	U		0.000126	0.00100	1	01/27/2024 04:52	WG2214292
1,1-Dichloroethane	U		0.000100	0.00100	1	01/27/2024 04:52	WG2214292
1,2-Dichloroethane	U	J4	0.0000819	0.00100	1	01/27/2024 04:52	WG2214292
1,1-Dichloroethene	U		0.000188	0.00100	1	01/27/2024 04:52	WG2214292
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	01/27/2024 04:52	WG2214292
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	01/27/2024 04:52	WG2214292
1,2-Dichloropropane	U		0.000149	0.00100	1	01/27/2024 04:52	WG2214292
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	01/27/2024 04:52	WG2214292
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	01/27/2024 04:52	WG2214292
Ethylbenzene	U		0.000137	0.00100	1	01/27/2024 04:52	WG2214292
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	01/27/2024 04:52	WG2214292
2-Hexanone	U		0.000787	0.0100	1	01/27/2024 04:52	WG2214292
Isopropylbenzene	U		0.000105	0.00100	1	01/27/2024 04:52	WG2214292
p-Isopropyltoluene	U		0.000120	0.00100	1	01/27/2024 04:52	WG2214292
2-Butanone (MEK)	U		0.00119	0.0100	1	01/27/2024 04:52	WG2214292
Methylene Chloride	U		0.000430	0.00500	1	01/27/2024 04:52	WG2214292
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	01/27/2024 04:52	WG2214292
Methyl tert-butyl ether	U		0.000101	0.00100	1	01/27/2024 04:52	WG2214292
Naphthalene	U		0.00100	0.00500	1	01/27/2024 04:52	WG2214292
n-Propylbenzene	U		0.0000993	0.00100	1	01/27/2024 04:52	WG2214292
Styrene	U		0.000118	0.00100	1	01/27/2024 04:52	WG2214292
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	01/27/2024 04:52	WG2214292
Tetrachloroethene	U		0.000300	0.00100	1	01/27/2024 04:52	WG2214292
Toluene	U		0.000278	0.00100	1	01/27/2024 04:52	WG2214292
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	01/27/2024 04:52	WG2214292
1,1,2-Trichloroethane	U		0.000158	0.00100	1	01/27/2024 04:52	WG2214292
Trichloroethene	U		0.000190	0.00100	1	01/27/2024 04:52	WG2214292
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	01/27/2024 04:52	WG2214292
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	01/27/2024 04:52	WG2214292
Vinyl chloride	U		0.000234	0.00100	1	01/27/2024 04:52	WG2214292
Xylenes, Total	U		0.000174	0.00300	1	01/27/2024 04:52	WG2214292
(S) Toluene-d8	*109*			*80.0-120*		*01/27/2024 04:52*	WG2214292
(S) Toluene-d8	*102*			*80.0-120*		*02/02/2024 13:33*	WG2218743
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*01/27/2024 04:52*	WG2214292

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*02/02/2024 13:33*	WG2218743
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*01/27/2024 04:52*	WG2214292
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*02/02/2024 13:33*	WG2218743

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0863	J	0.0247	0.100	1	01/30/2024 17:54	WG2214960
(S) o-Terphenyl	*89.5*			*31.0-160*		*01/30/2024 17:54*	WG2214960

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	02/06/2024 21:14	WG2217038
Acenaphthylene	U		0.0000921	0.00100	1	02/06/2024 21:14	WG2217038
Acetophenone	U		0.000208	0.0100	1	02/06/2024 21:14	WG2217038
Anthracene	U		0.0000804	0.00100	1	02/06/2024 21:14	WG2217038
Atrazine	U		0.000255	0.0100	1	02/06/2024 21:14	WG2217038
Benzo(a)anthracene	U		0.000199	0.00100	1	02/06/2024 21:14	WG2217038
Benzaldehyde	U	J4	0.00169	0.0100	1	02/06/2024 21:14	WG2217038
Benzo(b)fluoranthene	U		0.000130	0.00100	1	02/06/2024 21:14	WG2217038
Benzo(k)fluoranthene	U		0.000120	0.00100	1	02/06/2024 21:14	WG2217038
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	02/06/2024 21:14	WG2217038
Benzo(a)pyrene	U		0.0000381	0.000200	1	02/06/2024 21:14	WG2217038
Biphenyl	U		0.000790	0.0100	1	02/06/2024 21:14	WG2217038
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	02/06/2024 21:14	WG2217038
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	02/06/2024 21:14	WG2217038
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	02/06/2024 21:14	WG2217038
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	02/06/2024 21:14	WG2217038
2-Chloronaphthalene	U		0.0000648	0.00100	1	02/06/2024 21:14	WG2217038
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	02/06/2024 21:14	WG2217038
Caprolactam	U		0.000309	0.0100	1	02/06/2024 21:14	WG2217038
Carbazole	U		0.000111	0.0100	1	02/06/2024 21:14	WG2217038
Chrysene	U		0.000130	0.00100	1	02/06/2024 21:14	WG2217038
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	02/06/2024 21:14	WG2217038
Dibenzofuran	U		0.0000970	0.0100	1	02/06/2024 21:14	WG2217038
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	02/06/2024 21:14	WG2217038
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	02/06/2024 21:14	WG2217038
2,6-Dinitrotoluene	U		0.000250	0.0100	1	02/06/2024 21:14	WG2217038
Fluoranthene	U		0.000102	0.00100	1	02/06/2024 21:14	WG2217038
Fluorene	U		0.0000844	0.00100	1	02/06/2024 21:14	WG2217038
Hexachlorobenzene	U		0.0000755	0.00100	1	02/06/2024 21:14	WG2217038
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	02/06/2024 21:14	WG2217038
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	02/06/2024 21:14	WG2217038
Hexachloroethane	U		0.000127	0.0100	1	02/06/2024 21:14	WG2217038
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	02/06/2024 21:14	WG2217038
Isophorone	U		0.000143	0.0100	1	02/06/2024 21:14	WG2217038
1-Methylnaphthalene	U		0.0000790	0.00100	1	02/06/2024 21:14	WG2217038
2-Methylnaphthalene	U		0.000117	0.00100	1	02/06/2024 21:14	WG2217038
Naphthalene	U		0.000159	0.00100	1	02/06/2024 21:14	WG2217038
Nitrobenzene	U		0.000297	0.0100	1	02/06/2024 21:14	WG2217038
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	02/06/2024 21:14	WG2217038
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	02/06/2024 21:14	WG2217038
Phenanthrene	U		0.000112	0.00100	1	02/06/2024 21:14	WG2217038
Benzylbutyl phthalate	U		0.000765	0.00300	1	02/06/2024 21:14	WG2217038

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	02/06/2024 21:14	WG2217038
Di-n-butyl phthalate	U		0.000453	0.00300	1	02/06/2024 21:14	WG2217038
Diethyl phthalate	U		0.000287	0.00300	1	02/06/2024 21:14	WG2217038
Dimethyl phthalate	U		0.000260	0.00300	1	02/06/2024 21:14	WG2217038
Di-n-octyl phthalate	U		0.000932	0.00300	1	02/06/2024 21:14	WG2217038
Pyrene	U		0.000107	0.00100	1	02/06/2024 21:14	WG2217038
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	02/06/2024 21:14	WG2217038
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	02/06/2024 21:14	WG2217038
2-Chlorophenol	U		0.000133	0.0100	1	02/06/2024 21:14	WG2217038
2,4-Dichlorophenol	U		0.000102	0.0100	1	02/06/2024 21:14	WG2217038
2,4-Dimethylphenol	U		0.0000636	0.0100	1	02/06/2024 21:14	WG2217038
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	02/06/2024 21:14	WG2217038
2,4-Dinitrophenol	U		0.00593	0.0100	1	02/06/2024 21:14	WG2217038
2-Nitrophenol	U		0.000117	0.0100	1	02/06/2024 21:14	WG2217038
2-Nitroaniline	U		0.000102	0.0100	1	02/06/2024 21:14	WG2217038
2-Methylphenol	U		0.0000929	0.0100	1	02/06/2024 21:14	WG2217038
3&4-Methyl Phenol	U		0.000168	0.0100	1	02/06/2024 21:14	WG2217038
3-Nitroaniline	U		0.0000869	0.0100	1	02/06/2024 21:14	WG2217038
4-Chloroaniline	U		0.000234	0.0100	1	02/06/2024 21:14	WG2217038
4-Nitroaniline	U		0.0000910	0.0100	1	02/06/2024 21:14	WG2217038
4-Nitrophenol	U	J4	0.000143	0.0100	1	02/06/2024 21:14	WG2217038
Pentachlorophenol	U		0.000313	0.0100	1	02/06/2024 21:14	WG2217038
Phenol	U		0.00433	0.0100	1	02/06/2024 21:14	WG2217038
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	02/06/2024 21:14	WG2217038
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	02/06/2024 21:14	WG2217038
(S) 2-Fluorophenol	*34.8*			*10.0-120*		*02/06/2024 21:14*	WG2217038
(S) Phenol-d5	*24.2*			*10.0-120*		*02/06/2024 21:14*	WG2217038
(S) Nitrobenzene-d5	*56.7*			*10.0-127*		*02/06/2024 21:14*	WG2217038
(S) 2-Fluorobiphenyl	*73.2*			*10.0-130*		*02/06/2024 21:14*	WG2217038
(S) 2,4,6-Tribromophenol	*81.5*			*10.0-155*		*02/06/2024 21:14*	WG2217038
(S) p-Terphenyl-d14	*89.9*			*10.0-128*		*02/06/2024 21:14*	WG2217038

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	01/26/2024 23:28	WG2214292
Benzene	U		0.0000941	0.00100	1	01/26/2024 23:28	WG2214292
Bromodichloromethane	U		0.000136	0.00100	1	01/26/2024 23:28	WG2214292
Bromoform	U		0.000129	0.00100	1	01/26/2024 23:28	WG2214292
Bromomethane	U		0.000605	0.00500	1	01/26/2024 23:28	WG2214292
n-Butylbenzene	U		0.000157	0.00100	1	01/26/2024 23:28	WG2214292
sec-Butylbenzene	U		0.000125	0.00100	1	01/26/2024 23:28	WG2214292
tert-Butylbenzene	U		0.000127	0.00100	1	01/26/2024 23:28	WG2214292
Carbon disulfide	U		0.0000962	0.00100	1	01/26/2024 23:28	WG2214292
Carbon tetrachloride	U	J4	0.000128	0.00100	1	01/26/2024 23:28	WG2214292
Chlorobenzene	U		0.000116	0.00100	1	01/26/2024 23:28	WG2214292
Chlorodibromomethane	U		0.000140	0.00100	1	01/26/2024 23:28	WG2214292
Chloroethane	U		0.000192	0.00500	1	01/26/2024 23:28	WG2214292
Chloroform	U		0.000111	0.00500	1	01/26/2024 23:28	WG2214292
Chloromethane	U		0.000960	0.00250	1	01/26/2024 23:28	WG2214292
1,2-Dibromoethane	U		0.000126	0.00100	1	01/26/2024 23:28	WG2214292
1,1-Dichloroethane	U		0.000100	0.00100	1	01/26/2024 23:28	WG2214292
1,2-Dichloroethane	U	J4	0.0000819	0.00100	1	01/26/2024 23:28	WG2214292
1,1-Dichloroethene	U		0.000188	0.00100	1	01/26/2024 23:28	WG2214292
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	01/26/2024 23:28	WG2214292
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	01/26/2024 23:28	WG2214292
1,2-Dichloropropane	U		0.000149	0.00100	1	01/26/2024 23:28	WG2214292
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	01/26/2024 23:28	WG2214292
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	01/26/2024 23:28	WG2214292
Ethylbenzene	U		0.000137	0.00100	1	01/26/2024 23:28	WG2214292
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	01/26/2024 23:28	WG2214292
2-Hexanone	U		0.000787	0.0100	1	01/26/2024 23:28	WG2214292
Isopropylbenzene	U		0.000105	0.00100	1	01/26/2024 23:28	WG2214292
p-Isopropyltoluene	U		0.000120	0.00100	1	01/26/2024 23:28	WG2214292
2-Butanone (MEK)	U		0.00119	0.0100	1	01/26/2024 23:28	WG2214292
Methylene Chloride	U		0.000430	0.00500	1	01/26/2024 23:28	WG2214292
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	01/26/2024 23:28	WG2214292
Methyl tert-butyl ether	U		0.000101	0.00100	1	01/26/2024 23:28	WG2214292
Naphthalene	U		0.00100	0.00500	1	01/26/2024 23:28	WG2214292
n-Propylbenzene	U		0.0000993	0.00100	1	01/26/2024 23:28	WG2214292
Styrene	U		0.000118	0.00100	1	01/26/2024 23:28	WG2214292
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	01/26/2024 23:28	WG2214292
Tetrachloroethene	U		0.000300	0.00100	1	01/26/2024 23:28	WG2214292
Toluene	U		0.000278	0.00100	1	01/26/2024 23:28	WG2214292
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	01/26/2024 23:28	WG2214292
1,1,2-Trichloroethane	U		0.000158	0.00100	1	01/26/2024 23:28	WG2214292
Trichloroethene	U		0.000190	0.00100	1	01/26/2024 23:28	WG2214292
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	01/26/2024 23:28	WG2214292
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	01/26/2024 23:28	WG2214292
Vinyl chloride	U		0.000234	0.00100	1	01/26/2024 23:28	WG2214292
Xylenes, Total	U		0.000174	0.00300	1	01/26/2024 23:28	WG2214292
(S) Toluene-d8	*97.9*			*80.0-120*		*01/26/2024 23:28*	WG2214292
(S) 4-Bromofluorobenzene	*97.0*			*77.0-126*		*01/26/2024 23:28*	WG2214292
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*01/26/2024 23:28*	WG2214292

Method Blank (MB)

(MB) R4027424-1 01/27/24 22:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1699138-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1699138-03 01/27/24 22:13 • (DUP) R4027424-3 01/27/24 22:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	499	497	1	0.402		10

L1699138-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1699138-04 01/27/24 22:13 • (DUP) R4027424-4 01/27/24 22:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	808	829	1	2.61		10

Laboratory Control Sample (LCS)

(LCS) R4027424-2 01/27/24 22:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8680	98.6	85.0-115	

Method Blank (MB)

(MB) R4027023-2 01/28/24 13:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1698660-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1698660-01 01/28/24 13:33 • (DUP) R4027023-4 01/28/24 13:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	61.6	62.2	1	0.847		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1699162-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1699162-01 01/28/24 15:08 • (DUP) R4027023-6 01/28/24 15:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	178	176	1	1.10		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4027023-1 01/28/24 13:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	103	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4027022-1 01/26/24 08:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1699138-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1699138-01 01/26/24 15:56 • (DUP) R4027022-3 01/26/24 16:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	114	114	1	0.139		15
Fluoride	0.877	0.869	1	0.859		15
Nitrate	3.60	3.60	1	0.00833		15
Nitrite	U	U	1	0.000		15
Sulfate	76.9	76.8	1	0.145		15

L1699149-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1699149-05 01/26/24 20:10 • (DUP) R4027022-6 01/26/24 20:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	61.8	61.7	1	0.0813		15
Fluoride	U	U	1	0.000		15
Nitrate	4.61	4.58	1	0.694		15
Nitrite	U	U	1	0.000		15
Sulfate	65.0	65.0	1	0.0781		15

Laboratory Control Sample (LCS)

(LCS) R4027022-2 01/26/24 09:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.7	99.1	80.0-120	
Fluoride	8.00	8.14	102	80.0-120	
Nitrate	8.00	7.71	96.3	80.0-120	
Nitrite	8.00	7.99	99.9	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4027022-2 01/26/24 09:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	41.3	103	80.0-120	

L1699138-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1699138-01 01/26/24 15:56 • (MS) R4027022-4 01/26/24 16:28 • (MSD) R4027022-5 01/26/24 16:43

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 %
Chloride	40.0	114	131	131	41.4	41.2	1	80.0-120	J6	J6	0.0688	15
Fluoride	8.00	0.877	8.02	8.50	89.3	95.3	1	80.0-120			5.81	15
Nitrate	8.00	3.60	10.9	10.9	91.6	91.5	1	80.0-120			0.0778	15
Nitrite	8.00	U	8.16	8.17	102	102	1	80.0-120			0.0796	15
Sulfate	40.0	76.9	105	104	69.1	68.3	1	80.0-120	J6	J6	0.295	15

Sample Narrative:

MS: SO4/Cl spike failed due to sample matrix

MSD: SO4/Cl spike failed due to sample matrix

L1699149-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1699149-05 01/26/24 20:10 • (MS) R4027022-7 01/26/24 20:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	61.8	89.1	68.3	1	80.0-120	J6
Fluoride	8.00	U	7.80	97.5	1	80.0-120	
Nitrate	8.00	4.61	11.6	87.2	1	80.0-120	
Nitrite	8.00	U	7.96	99.5	1	80.0-120	
Sulfate	40.0	65.0	93.9	72.3	1	80.0-120	J6

Sample Narrative:

MS: SO4/Cl spike failed due to sample matrix

Method Blank (MB)

(MB) R4027060-1 01/28/24 18:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R4027060-2 01/28/24 18:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00265	88.4	80.0-120	

L1699191-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1699191-01 01/28/24 18:44 • (MS) R4027060-3 01/28/24 18:47 • (MSD) R4027060-4 01/28/24 18:49

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 %
Mercury	0.00300	U	0.00265	0.00259	88.5	86.3	1	75.0-125			2.46	20

Method Blank (MB)

(MB) R4029051-1 02/01/24 20:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R4029051-2 02/01/24 20:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.966	96.6	80.0-120	

L1699162-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1699162-01 02/01/24 20:49 • (MS) R4029051-4 02/01/24 20:55 • (MSD) R4029051-5 02/01/24 20:57

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 %
Boron,Dissolved	1.00	0.542	1.50	1.52	95.9	97.5	1	75.0-125			1.02	20

Method Blank (MB)

(MB) R4028113-1 01/31/24 00:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0185	0.100
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Molybdenum,Dissolved	U		0.000348	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Silver,Dissolved	U		0.0000700	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Zinc,Dissolved	U		0.00302	0.0250

Laboratory Control Sample (LCS)

(LCS) R4028113-2 01/31/24 00:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	0.998	99.8	80.0-120	
Arsenic,Dissolved	0.0500	0.0512	102	80.0-120	
Barium,Dissolved	0.0500	0.0504	101	80.0-120	
Cadmium,Dissolved	0.0500	0.0520	104	80.0-120	
Chromium,Dissolved	0.0500	0.0530	106	80.0-120	
Copper,Dissolved	0.0500	0.0496	99.1	80.0-120	
Cobalt,Dissolved	0.0500	0.0523	105	80.0-120	
Iron,Dissolved	1.00	1.04	104	80.0-120	
Lead,Dissolved	0.0500	0.0455	91.0	80.0-120	
Manganese,Dissolved	0.0500	0.0516	103	80.0-120	
Molybdenum,Dissolved	0.0500	0.0508	102	80.0-120	
Nickel,Dissolved	0.0500	0.0526	105	80.0-120	
Selenium,Dissolved	0.0500	0.0516	103	80.0-120	
Silver,Dissolved	0.0500	0.0529	106	80.0-120	
Uranium,Dissolved	0.0500	0.0475	95.1	80.0-120	
Zinc,Dissolved	0.0500	0.0488	97.6	80.0-120	

L1699201-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1699201-05 01/31/24 00:42 • (MS) R4028113-4 01/31/24 00:49 • (MSD) R4028113-5 01/31/24 00:52

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 %
Aluminum,Dissolved	1.00	U	0.991	1.00	99.1	100	1	75.0-125			1.35	20
Arsenic,Dissolved	0.0500	0.000963	0.0469	0.0496	91.8	97.3	1	75.0-125			5.69	20
Barium,Dissolved	0.0500	1.66	1.77	1.68	225	51.1	1	75.0-125	V	V	5.04	20
Cadmium,Dissolved	0.0500	U	0.0492	0.0519	98.4	104	1	75.0-125			5.30	20
Chromium,Dissolved	0.0500	U	0.0467	0.0492	93.4	98.4	1	75.0-125			5.20	20
Copper,Dissolved	0.0500	U	0.0475	0.0492	95.0	98.5	1	75.0-125			3.52	20
Cobalt,Dissolved	0.0500	0.000578	0.0459	0.0484	90.7	95.7	1	75.0-125			5.30	20
Iron,Dissolved	1.00	0.103	1.00	1.07	89.7	97.1	1	75.0-125			7.08	20
Lead,Dissolved	0.0500	U	0.0490	0.0523	98.0	105	1	75.0-125			6.54	20
Manganese,Dissolved	0.0500	0.311	0.333	0.349	44.7	77.0	1	75.0-125	V		4.73	20
Molybdenum,Dissolved	0.0500	0.000609	0.0500	0.0507	99.9	101	1	75.0-125			1.38	20
Nickel,Dissolved	0.0500	0.00141	0.0478	0.0491	92.7	95.3	1	75.0-125			2.69	20
Selenium,Dissolved	0.0500	U	0.0522	0.0522	104	104	1	75.0-125			0.106	20
Silver,Dissolved	0.0500	U	0.0522	0.0521	104	104	1	75.0-125			0.0483	20
Uranium,Dissolved	0.0500	U	0.0521	0.0556	104	111	1	75.0-125			6.53	20
Zinc,Dissolved	0.0500	0.00378	0.0449	0.0482	89.9	96.3	1	75.0-125			6.92	20

Method Blank (MB)

(MB) R4028484-3 01/31/24 14:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*78.0-120*

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

(LCS) R4028484-1 01/31/24 11:51 • (LCSD) R4028484-2 01/31/24 13:17

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 %
TPH (GC/FID) Low Fraction	5.50	4.99	4.66	90.7	84.7	72.0-127			6.84	20
(S) a,a,a-Trifluorotoluene(FID)				*89.1*	*91.8*	*78.0-120*				

Method Blank (MB)

(MB) R4028821-2 02/01/24 01:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*

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

(LCS) R4028821-1 01/31/24 23:38 • (LCSD) R4028821-3 02/01/24 02:32

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 %
TPH (GC/FID) Low Fraction	5.50	4.94	4.73	89.8	86.0	72.0-127			4.34	20
(S) a,a,a-Trifluorotoluene(FID)				*96.9*	*94.1*	*78.0-120*				

Method Blank (MB)

(MB) R4029129-3 01/26/24 22:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	0.000254	J	0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
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
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
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
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100

Method Blank (MB)

(MB) R4029129-3 01/26/24 22:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	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	*100*			*80.0-120*
(S) 4-Bromofluorobenzene	*112*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*

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

(LCS) R4029129-1 01/26/24 21:25 • (LCSD) R4029129-2 01/26/24 21:52

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	0.0348	0.0338	139	135	19.0-160			2.92	27
Benzene	0.00500	0.00538	0.00489	108	97.8	70.0-123			9.54	20
Bromodichloromethane	0.00500	0.00580	0.00529	116	106	75.0-120			9.20	20
Bromoform	0.00500	0.00535	0.00553	107	111	68.0-132			3.31	20
Bromomethane	0.00500	0.00574	0.00515	115	103	10.0-160			10.8	25
n-Butylbenzene	0.00500	0.00529	0.00451	106	90.2	73.0-125			15.9	20
sec-Butylbenzene	0.00500	0.00509	0.00489	102	97.8	75.0-125			4.01	20
tert-Butylbenzene	0.00500	0.00407	0.00389	81.4	77.8	76.0-124			4.52	20
Carbon disulfide	0.00500	0.00433	0.00419	86.6	83.8	61.0-128			3.29	20
Carbon tetrachloride	0.00500	0.00676	0.00664	135	133	68.0-126	J4	J4	1.79	20
Chlorobenzene	0.00500	0.00534	0.00539	107	108	80.0-121			0.932	20
Chlorodibromomethane	0.00500	0.00603	0.00601	121	120	77.0-125			0.332	20
Chloroethane	0.00500	0.00484	0.00447	96.8	89.4	47.0-150			7.95	20
Chloroform	0.00500	0.00575	0.00524	115	105	73.0-120			9.28	20
Chloromethane	0.00500	0.00465	0.00438	93.0	87.6	41.0-142			5.98	20
1,2-Dibromoethane	0.00500	0.00525	0.00548	105	110	80.0-122			4.29	20
1,1-Dichloroethane	0.00500	0.00510	0.00522	102	104	70.0-126			2.33	20
1,2-Dichloroethane	0.00500	0.00649	0.00641	130	128	70.0-128	J4		1.24	20
1,1-Dichloroethene	0.00500	0.00547	0.00515	109	103	71.0-124			6.03	20
cis-1,2-Dichloroethene	0.00500	0.00573	0.00559	115	112	73.0-120			2.47	20
trans-1,2-Dichloroethene	0.00500	0.00570	0.00508	114	102	73.0-120			11.5	20
1,2-Dichloropropane	0.00500	0.00480	0.00447	96.0	89.4	77.0-125			7.12	20
cis-1,3-Dichloropropene	0.00500	0.00550	0.00532	110	106	80.0-123			3.33	20
trans-1,3-Dichloropropene	0.00500	0.00525	0.00546	105	109	78.0-124			3.92	20

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

(LCS) R4029129-1 01/26/24 21:25 • (LCSD) R4029129-2 01/26/24 21:52

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 %
Ethylbenzene	0.00500	0.00548	0.00526	110	105	79.0-123			4.10	20
Hexachloro-1,3-butadiene	0.00500	0.00501	0.00489	100	97.8	54.0-138			2.42	20
2-Hexanone	0.0250	0.0273	0.0245	109	98.0	67.0-149			10.8	20
Isopropylbenzene	0.00500	0.00551	0.00522	110	104	76.0-127			5.41	20
p-Isopropyltoluene	0.00500	0.00491	0.00494	98.2	98.8	76.0-125			0.609	20
2-Butanone (MEK)	0.0250	0.0275	0.0255	110	102	44.0-160			7.55	20
Methylene Chloride	0.00500	0.00489	0.00443	97.8	88.6	67.0-120			9.87	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0258	0.0249	103	99.6	68.0-142			3.55	20
Methyl tert-butyl ether	0.00500	0.00512	0.00517	102	103	68.0-125			0.972	20
Naphthalene	0.00500	0.00481	0.00492	96.2	98.4	54.0-135			2.26	20
n-Propylbenzene	0.00500	0.00514	0.00492	103	98.4	77.0-124			4.37	20
Styrene	0.00500	0.00540	0.00462	108	92.4	73.0-130			15.6	20
1,1,2,2-Tetrachloroethane	0.00500	0.00467	0.00406	93.4	81.2	65.0-130			14.0	20
Tetrachloroethene	0.00500	0.00570	0.00532	114	106	72.0-132			6.90	20
Toluene	0.00500	0.00525	0.00521	105	104	79.0-120			0.765	20
1,1,1-Trichloroethane	0.00500	0.00652	0.00635	130	127	73.0-124	J4	J4	2.64	20
1,1,2-Trichloroethane	0.00500	0.00516	0.00518	103	104	80.0-120			0.387	20
Trichloroethene	0.00500	0.00472	0.00510	94.4	102	78.0-124			7.74	20
1,2,4-Trimethylbenzene	0.00500	0.00528	0.00473	106	94.6	76.0-121			11.0	20
1,3,5-Trimethylbenzene	0.00500	0.00504	0.00485	101	97.0	76.0-122			3.84	20
Vinyl chloride	0.00500	0.00532	0.00513	106	103	67.0-131			3.64	20
Xylenes, Total	0.0150	0.0156	0.0162	104	108	79.0-123			3.77	20
(S) Toluene-d8				*94.0*	*97.5*	*80.0-120*				
(S) 4-Bromofluorobenzene				*100*	*97.0*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*114*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R4029975-4 02/02/24 11:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloroform	U		0.000111	0.00500
(S) Toluene-d8	*99.3*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

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

(LCS) R4029975-1 02/02/24 09:47 • (LCSD) R4029975-2 02/02/24 10:09

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 %
Chloroform	0.00500	0.00554	0.00491	111	98.2	73.0-120			12.1	20
(S) Toluene-d8				*96.7*	*97.9*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*100*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*106*	*101*	*70.0-130*				

Method Blank (MB)

(MB) R4027938-1 01/29/24 01:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0293	J	0.0247	0.100
(S) o-Terphenyl	*71.0*			*31.0-160*

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

(LCS) R4027938-2 01/29/24 02:13 • (LCSD) R4027938-3 01/29/24 02:33

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 %
TPH (GC/FID) High Fraction	1.50	1.53	1.59	102	106	50.0-150			3.85	20
(S) o-Terphenyl				*74.5*	*76.5*	*31.0-160*				

Method Blank (MB)

(MB) R4028582-1 01/30/24 16:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*80.5*			*31.0-160*

Laboratory Control Sample (LCS)

(LCS) R4028582-3 01/30/24 16:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	1.50	1.62	108	50.0-150	
(S) o-Terphenyl			*90.5*	*31.0-160*	

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4027740-3 01/29/24 14:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4027740-3 01/29/24 14:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*30.0*			*10.0-120*
(S) Phenol-d5	*21.7*			*10.0-120*
(S) Nitrobenzene-d5	*56.0*			*10.0-127*
(S) 2-Fluorobiphenyl	*80.3*			*10.0-130*
(S) 2,4,6-Tribromophenol	*70.0*			*10.0-155*
(S) p-Terphenyl-d14	*84.2*			*10.0-128*

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

(LCS) R4027740-1 01/29/24 13:56 • (LCSD) R4027740-2 01/29/24 14:18

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 %
Acenaphthene	0.0500	0.0358	0.0408	71.6	81.6	41.0-120			13.1	22
Acenaphthylene	0.0500	0.0316	0.0360	63.2	72.0	43.0-120			13.0	22
Acetophenone	0.0500	0.0274	0.0321	54.8	64.2	29.0-120			15.8	28
Anthracene	0.0500	0.0332	0.0363	66.4	72.6	45.0-120			8.92	20
Atrazine	0.0500	0.0409	0.0412	81.8	82.4	39.0-141			0.731	20
Benzo(a)anthracene	0.0500	0.0371	0.0378	74.2	75.6	47.0-120			1.87	20
Benzaldehyde	0.0500	0.0700	0.0768	140	154	10.0-160			9.26	40
Benzo(b)fluoranthene	0.0500	0.0386	0.0398	77.2	79.6	46.0-120			3.06	20
Benzo(k)fluoranthene	0.0500	0.0408	0.0399	81.6	79.8	46.0-120			2.23	21
Benzo(g,h,i)perylene	0.0500	0.0335	0.0346	67.0	69.2	48.0-121			3.23	20
Benzo(a)pyrene	0.0500	0.0383	0.0384	76.6	76.8	47.0-120			0.261	20
Biphenyl	0.0500	0.0340	0.0385	68.0	77.0	38.0-120			12.4	27
Bis(2-chlorethoxy)methane	0.0500	0.0300	0.0326	60.0	65.2	33.0-120			8.31	24
Bis(2-chloroethyl)ether	0.0500	0.0314	0.0350	62.8	70.0	23.0-120			10.8	33
2,2-Oxybis(1-Chloropropane)	0.0500	0.0294	0.0330	58.8	66.0	28.0-120			11.5	31
4-Bromophenyl-phenylether	0.0500	0.0346	0.0402	69.2	80.4	45.0-120			15.0	20
2-Chloronaphthalene	0.0500	0.0329	0.0362	65.8	72.4	37.0-120			9.55	25
4-Chlorophenyl-phenylether	0.0500	0.0386	0.0404	77.2	80.8	44.0-120			4.56	20
Caprolactam	0.0500	0.00847	0.00801	16.9	16.0	10.0-120			5.58	26
Carbazole	0.0500	0.0371	0.0411	74.2	82.2	51.0-122			10.2	20
Chrysene	0.0500	0.0369	0.0379	73.8	75.8	48.0-120			2.67	20
Dibenz(a,h)anthracene	0.0500	0.0350	0.0369	70.0	73.8	47.0-120			5.29	20
Dibenzofuran	0.0500	0.0347	0.0383	69.4	76.6	44.0-120			9.86	22
3,3-Dichlorobenzidine	0.100	0.0735	0.0760	73.5	76.0	44.0-120			3.34	20
2,4-Dinitrotoluene	0.0500	0.0393	0.0410	78.6	82.0	49.0-124			4.23	20
2,6-Dinitrotoluene	0.0500	0.0390	0.0418	78.0	83.6	46.0-120			6.93	21
Fluoranthene	0.0500	0.0351	0.0380	70.2	76.0	51.0-120			7.93	20
Fluorene	0.0500	0.0363	0.0405	72.6	81.0	47.0-120			10.9	20
Hexachlorobenzene	0.0500	0.0368	0.0417	73.6	83.4	44.0-120			12.5	20
Hexachloro-1,3-butadiene	0.0500	0.0231	0.0259	46.2	51.8	19.0-120			11.4	32
Hexachlorocyclopentadiene	0.0500	0.0197	0.0220	39.4	44.0	15.0-120			11.0	31
Hexachloroethane	0.0500	0.0237	0.0278	47.4	55.6	15.0-120			15.9	37
Indeno(1,2,3-cd)pyrene	0.0500	0.0336	0.0346	67.2	69.2	49.0-122			2.93	20
Isophorone	0.0500	0.0272	0.0299	54.4	59.8	36.0-120			9.46	23
1-Methylnaphthalene	0.0500	0.0320	0.0367	64.0	73.4	33.0-120			13.7	24
2-Methylnaphthalene	0.0500	0.0303	0.0336	60.6	67.2	33.0-120			10.3	25
Naphthalene	0.0500	0.0285	0.0314	57.0	62.8	27.0-120			9.68	27
Nitrobenzene	0.0500	0.0245	0.0269	49.0	53.8	27.0-120			9.34	29
n-Nitrosodiphenylamine	0.0500	0.0341	0.0397	68.2	79.4	47.0-120			15.2	20
n-Nitrosodi-n-propylamine	0.0500	0.0280	0.0336	56.0	67.2	31.0-120			18.2	28

Received by OCD: 4/15/2025 7:55:48 AM

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

(LCS) R4027740-1 01/29/24 13:56 • (LCSD) R4027740-2 01/29/24 14:18

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 %
Phenanthrene	0.0500	0.0343	0.0384	68.6	76.8	46.0-120			11.3	20
Benzylbutyl phthalate	0.0500	0.0474	0.0490	94.8	98.0	43.0-121			3.32	20
Bis(2-ethylhexyl)phthalate	0.0500	0.0496	0.0500	99.2	100	43.0-122			0.803	20
Di-n-butyl phthalate	0.0500	0.0433	0.0473	86.6	94.6	49.0-121			8.83	20
Diethyl phthalate	0.0500	0.0418	0.0435	83.6	87.0	48.0-122			3.99	20
Dimethyl phthalate	0.0500	0.0409	0.0435	81.8	87.0	48.0-120			6.16	20
Di-n-octyl phthalate	0.0500	0.0483	0.0486	96.6	97.2	42.0-125			0.619	20
Pyrene	0.0500	0.0396	0.0411	79.2	82.2	47.0-120			3.72	20
1,2,4-Trichlorobenzene	0.0500	0.0252	0.0299	50.4	59.8	24.0-120			17.1	29
4-Chloro-3-methylphenol	0.0500	0.0222	0.0287	44.4	57.4	40.0-120		J3	25.5	21
2-Chlorophenol	0.0500	0.0232	0.0319	46.4	63.8	25.0-120			31.6	35
2,4-Dichlorophenol	0.0500	0.0275	0.0335	55.0	67.0	36.0-120			19.7	26
2,4-Dimethylphenol	0.0500	0.0200	0.0305	40.0	61.0	33.0-120		J3	41.6	26
4,6-Dinitro-2-methylphenol	0.0500	0.0404	0.0420	80.8	84.0	38.0-138			3.88	25
2,4-Dinitrophenol	0.0500	0.0434	0.0485	86.8	97.0	10.0-120			11.1	39
2-Nitrophenol	0.0500	0.0305	0.0362	61.0	72.4	31.0-120			17.1	29
2-Nitroaniline	0.0500	0.0385	0.0430	77.0	86.0	43.0-120			11.0	22
2-Methylphenol	0.0500	0.0165	0.0231	33.0	46.2	28.0-120		J3	33.3	29
3&4-Methyl Phenol	0.0500	0.0175	0.0232	35.0	46.4	31.0-120			28.0	30
3-Nitroaniline	0.0500	0.0334	0.0391	66.8	78.2	38.0-120			15.7	21
4-Chloroaniline	0.0500	0.0219	0.0259	43.8	51.8	25.0-120			16.7	25
4-Nitroaniline	0.0500	0.0368	0.0411	73.6	82.2	18.0-160			11.0	21
4-Nitrophenol	0.0500	0.0118	0.0117	23.6	23.4	10.0-120			0.851	33
Pentachlorophenol	0.0500	0.0302	0.0342	60.4	68.4	23.0-120			12.4	25
Phenol	0.0500	0.00863	0.0100	17.3	20.0	10.0-120			14.7	36
2,4,5-Trichlorophenol	0.0500	0.0335	0.0360	67.0	72.0	44.0-120			7.19	22
2,4,6-Trichlorophenol	0.0500	0.0306	0.0351	61.2	70.2	42.0-120			13.7	23
(S) 2-Fluorophenol				*23.5*	*29.8*	*10.0-120*				
(S) Phenol-d5				*16.6*	*18.1*	*10.0-120*				
(S) Nitrobenzene-d5				*45.2*	*52.2*	*10.0-127*				
(S) 2-Fluorobiphenyl				*75.4*	*81.0*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*67.5*	*77.0*	*10.0-155*				
(S) p-Terphenyl-d14				*86.6*	*86.7*	*10.0-128*				

Released to Imaging: 5/2/2025 9:53:52 AM

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4030581-2 02/06/24 19:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4030581-2 02/06/24 19:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*34.3*			*10.0-120*
(S) Phenol-d5	*23.4*			*10.0-120*
(S) Nitrobenzene-d5	*50.6*			*10.0-127*
(S) 2-Fluorobiphenyl	*71.1*			*10.0-130*
(S) 2,4,6-Tribromophenol	*77.0*			*10.0-155*
(S) p-Terphenyl-d14	*85.2*			*10.0-128*

Laboratory Control Sample (LCS)

(LCS) R4030581-1 02/06/24 19:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0402	80.4	41.0-120	
Acenaphthylene	0.0500	0.0381	76.2	43.0-120	
Acetophenone	0.0500	0.0361	72.2	29.0-120	
Anthracene	0.0500	0.0379	75.8	45.0-120	
Atrazine	0.0500	0.0468	93.6	39.0-141	
Benzo(a)anthracene	0.0500	0.0380	76.0	47.0-120	
Benzaldehyde	0.0500	0.0919	184	10.0-160	J4
Benzo(b)fluoranthene	0.0500	0.0406	81.2	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0421	84.2	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0381	76.2	48.0-121	
Benzo(a)pyrene	0.0500	0.0399	79.8	47.0-120	
Biphenyl	0.0500	0.0393	78.6	38.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0319	63.8	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0379	75.8	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0386	77.2	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0416	83.2	45.0-120	
2-Chloronaphthalene	0.0500	0.0375	75.0	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0418	83.6	44.0-120	
Caprolactam	0.0500	0.0132	26.4	10.0-120	
Carbazole	0.0500	0.0409	81.8	51.0-122	
Chrysene	0.0500	0.0387	77.4	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0405	81.0	47.0-120	
Dibenzofuran	0.0500	0.0404	80.8	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0785	78.5	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0448	89.6	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0427	85.4	46.0-120	
Fluoranthene	0.0500	0.0396	79.2	51.0-120	
Fluorene	0.0500	0.0416	83.2	47.0-120	
Hexachlorobenzene	0.0500	0.0437	87.4	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0310	62.0	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0176	35.2	15.0-120	
Hexachloroethane	0.0500	0.0339	67.8	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0380	76.0	49.0-122	
Isophorone	0.0500	0.0295	59.0	36.0-120	
1-Methylnaphthalene	0.0500	0.0393	78.6	33.0-120	
2-Methylnaphthalene	0.0500	0.0381	76.2	33.0-120	
Naphthalene	0.0500	0.0353	70.6	27.0-120	
Nitrobenzene	0.0500	0.0273	54.6	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0395	79.0	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0365	73.0	31.0-120	

Laboratory Control Sample (LCS)

(LCS) R4030581-1 02/06/24 19:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	0.0500	0.0392	78.4	46.0-120	
Benzylbutyl phthalate	0.0500	0.0475	95.0	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0486	97.2	43.0-122	
Di-n-butyl phthalate	0.0500	0.0461	92.2	49.0-121	
Diethyl phthalate	0.0500	0.0430	86.0	48.0-122	
Dimethyl phthalate	0.0500	0.0438	87.6	48.0-120	
Di-n-octyl phthalate	0.0500	0.0474	94.8	42.0-125	
Pyrene	0.0500	0.0408	81.6	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0328	65.6	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0274	54.8	40.0-120	
2-Chlorophenol	0.0500	0.0348	69.6	25.0-120	
2,4-Dichlorophenol	0.0500	0.0346	69.2	36.0-120	
2,4-Dimethylphenol	0.0500	0.0342	68.4	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0455	91.0	38.0-138	
2,4-Dinitrophenol	0.0500	0.0484	96.8	10.0-120	
2-Nitrophenol	0.0500	0.0394	78.8	31.0-120	
2-Nitroaniline	0.0500	0.0471	94.2	43.0-120	
2-Methylphenol	0.0500	0.0251	50.2	28.0-120	
3&4-Methyl Phenol	0.0500	0.0274	54.8	31.0-120	
3-Nitroaniline	0.0500	0.0387	77.4	38.0-120	
4-Chloroaniline	0.0500	0.0223	44.6	25.0-120	
4-Nitroaniline	0.0500	0.0443	88.6	18.0-160	
4-Nitrophenol	0.0500	0.125	250	10.0-120	J4
Pentachlorophenol	0.0500	0.0335	67.0	23.0-120	
Phenol	0.0500	0.0153	30.6	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0369	73.8	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0370	74.0	42.0-120	
(S) 2-Fluorophenol			*38.3*	*10.0-120*	
(S) Phenol-d5			*27.3*	*10.0-120*	
(S) Nitrobenzene-d5			*58.7*	*10.0-127*	
(S) 2-Fluorobiphenyl			*80.6*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*86.0*	*10.0-155*	
(S) p-Terphenyl-d14			*91.5*	*10.0-128*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Received by OCD: 4/15/2025 7:55:48 AM

TRC Solutions - Austin, TX

505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: **Julie Speer**

Email To: jspeer@trccompanies.com;aeljuri@trccompanie

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT (MT) CT ET

Phone: **512-684-3176**

Client Project # **377274.0000.0000.**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Bryan Bayles + HMI Team

Site/Facility ID #

P.O. # **197162**

Collected by (signature): Bryan Bayles

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp	Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**NO3,Cl,NO2,F,SO4** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	ALK,TDS 500mlHDPE-NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3 <2	NAVAJOMETALSDISS-FF 250mlHDPE HNO3 <2	V8260 40mlAmb-HCl	V8260-TripBlank 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
WW-NORTH			GW		1/25/24	1020	13	X	X	X	X	X	X	X	X			01
WW-SOUTH			GW			935	13	X	X	X	X	X	X	X	X			02
WW-EAST			GW			1115	13	X	X	X	X	X	X	X	X			03
DUP-01			GW			1000	13	X	X	X	X	X	X	X	X			04
TRIP BLANK			GW			—	1									X		05

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

Remarks:NAVAJOMETALSDISS are Field Filtered.
** Wet Chem - 48hT ** needs to analyze Nitrate, Nitrite (Sample + ship same day)

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier _____

Tracking # 7210 2112 6443

PH-10BDH6021 TRC-2352362
CR6-20221V

Relinquished by : (Signature) Bryan Bayles | Date: 1/25/24 | Time: 1330 | Received by: (Signature)

Relinquished by : (Signature) | Date: | Time: | Received by: (Signature)

Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Christopher Mullins | Date: 1/26/24 | Time: 0900

Trip Blank Received: Yes / No HCl / MeoH TBR

Temp: 0.0 °C 1.9 °C | Bottles Received: 52

Hold: | Condition: NCF / OK

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

If preservation required by Login: Date/Time

Chain of Custody Page 1 of 1

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 # L1699138

F066

Acctnum: **TRCATX**
Template: **T118335**
Prelogin: **P1046768**
PM: **526 - Chris McCord**
PB: 1/31/24 CAM

Shipped Via: **FedEX Ground**

Released to Imaging: 5/2/2025 9:53:52 AM

ANALYTICAL REPORT

July 10, 2024

Revised Report

TRC Solutions - Austin, TX

Sample Delivery Group:	L1722760
Samples Received:	04/05/2024
Project Number:	584880.0000.0000
Description:	Lovington Lea Refinery

Report To: Julie Speer
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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

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MW-1 L1722760-01 GW

Collected by	Collected date/time	Received date/time
	04/04/24 08:45	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/05/24 21:57	04/05/24 21:57	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2266241	1	04/13/24 05:07	04/13/24 05:07	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:10	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 12:38	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262893	1	04/09/24 02:02	04/11/24 19:16	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2265555	1	04/12/24 10:43	04/12/24 19:01	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 18:48	04/07/24 18:48	DWR	Mt. Juliet, TN

MW-2 L1722760-02 GW

Collected by	Collected date/time	Received date/time
	04/04/24 09:25	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/05/24 22:13	04/05/24 22:13	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 06:23	04/06/24 06:23	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:12	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 12:41	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262893	1	04/09/24 02:02	04/11/24 19:19	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2265555	1	04/12/24 10:43	04/12/24 17:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 19:08	04/07/24 19:08	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 00:09	DSH	Mt. Juliet, TN

MW-4 L1722760-03 GW

Collected by	Collected date/time	Received date/time
	04/04/24 09:35	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/05/24 22:30	04/05/24 22:30	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2266241	1	04/13/24 05:20	04/13/24 05:20	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:14	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 12:44	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262893	1	04/09/24 02:02	04/11/24 19:23	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2265555	1	04/12/24 10:43	04/12/24 17:26	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 19:27	04/07/24 19:27	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 00:30	DSH	Mt. Juliet, TN

MW-5 L1722760-04 GW

Collected by	Collected date/time	Received date/time
	04/04/24 11:30	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/05/24 22:47	04/05/24 22:47	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:17	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 12:46	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262893	1	04/09/24 02:02	04/11/24 19:26	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2265555	1	04/12/24 10:43	04/12/24 17:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 01:53	04/12/24 01:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 19:46	04/07/24 19:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 20:47	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 00:52	DSH	Mt. Juliet, TN

MW-6 L1722760-05 GW

Collected by | Collected date/time 04/04/24 09:25 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/05/24 23:04	04/05/24 23:04	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2266241	1	04/13/24 05:32	04/13/24 05:32	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:19	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 12:49	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:09	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 20:05	04/07/24 20:05	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 01:13	DSH	Mt. Juliet, TN

MW-8 L1722760-06 GW

Collected by | Collected date/time 04/04/24 08:25 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/05/24 23:55	04/05/24 23:55	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 06:40	04/06/24 06:40	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:21	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 12:53	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:12	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 20:24	04/07/24 20:24	DWR	Mt. Juliet, TN

MW-9 L1722760-07 GW

Collected by | Collected date/time 04/04/24 10:25 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 00:12	04/06/24 00:12	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 06:57	04/06/24 06:57	DLH	Mt. Juliet, TN

MW-10 L1722760-08 GW

Collected by | Collected date/time 04/04/24 11:05 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 00:29	04/06/24 00:29	DLH	Mt. Juliet, TN

MW-11R L1722760-09 GW

Collected by | Collected date/time 04/04/24 08:45 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 01:19	04/06/24 01:19	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 07:13	04/06/24 07:13	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:24	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 12:56	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:16	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 22:56	04/07/24 22:56	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 01:35	DSH	Mt. Juliet, TN

MW-13R L1722760-10 GW

Collected by	Collected date/time	Received date/time
	04/04/24 10:50	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 01:36	04/06/24 01:36	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 07:30	04/06/24 07:30	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:26	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 13:04	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 20:43	04/07/24 20:43	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 01:56	DSH	Mt. Juliet, TN

MW-14R L1722760-11 GW

Collected by	Collected date/time	Received date/time
	04/04/24 10:25	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 01:53	04/06/24 01:53	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2266241	1	04/13/24 06:11	04/13/24 06:11	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:28	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 13:07	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:22	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 21:02	04/07/24 21:02	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 02:17	DSH	Mt. Juliet, TN

MW-15R L1722760-12 GW

Collected by	Collected date/time	Received date/time
	04/04/24 08:40	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 02:10	04/06/24 02:10	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 07:47	04/06/24 07:47	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:35	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 13:10	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:25	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 21:21	04/07/24 21:21	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 02:38	DSH	Mt. Juliet, TN

MW-16R L1722760-13 GW

Collected by	Collected date/time	Received date/time
	04/04/24 10:30	04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 02:27	04/06/24 02:27	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261622	1	04/07/24 18:50	04/08/24 17:37	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 13:13	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 21:40	04/07/24 21:40	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263382	1	04/09/24 16:21	04/10/24 03:00	DSH	Mt. Juliet, TN

MW-18R L1722760-14 GW

Collected by | Collected date/time 04/04/24 09:40 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264361	1	04/11/24 09:47	04/11/24 12:25	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 04:08	04/06/24 04:08	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 09:53	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262635	1	04/09/24 00:07	04/09/24 13:15	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:32	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 21:59	04/07/24 21:59	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 01:41	ALM	Mt. Juliet, TN

MW-19R L1722760-15 GW

Collected by | Collected date/time 04/04/24 09:05 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 04:25	04/06/24 04:25	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 08:04	04/06/24 08:04	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 09:55	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:32	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:35	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262002	1	04/07/24 22:18	04/07/24 22:18	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1.05	04/10/24 07:35	04/16/24 02:03	ALM	Mt. Juliet, TN

MW-20R L1722760-16 GW

Collected by | Collected date/time 04/04/24 09:50 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 04:42	04/06/24 04:42	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2266241	1	04/13/24 06:49	04/13/24 06:49	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 09:57	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:36	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:39	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/06/24 23:18	04/06/24 23:18	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1.05	04/10/24 07:35	04/16/24 02:24	ALM	Mt. Juliet, TN

MW-23R L1722760-17 GW

Collected by | Collected date/time 04/04/24 10:35 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 04:58	04/06/24 04:58	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 08:21	04/06/24 08:21	DLH	Mt. Juliet, TN

MW-24R L1722760-18 GW

Collected by | Collected date/time 04/04/24 11:15 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 05:15	04/06/24 05:15	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 09:59	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:39	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/06/24 23:36	04/06/24 23:36	DWR	Mt. Juliet, TN

MW-24R L1722760-18 GW

Collected by | Collected date/time 04/04/24 11:15 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 02:46	ALM	Mt. Juliet, TN

MW-26R L1722760-19 GW

Collected by | Collected date/time 04/04/24 10:10 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2261452	1	04/06/24 05:32	04/06/24 05:32	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261452	5	04/06/24 08:55	04/06/24 08:55	DLH	Mt. Juliet, TN

MW-3 L1722760-20 GW

Collected by | Collected date/time 04/04/24 09:25 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 00:32	04/17/24 00:32	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263166	1	04/12/24 20:53	04/12/24 20:53	GEB	Mt. Juliet, TN

MW-12R2 L1722760-21 GW

Collected by | Collected date/time 04/04/24 11:15 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 00:44	04/17/24 00:44	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263166	1	04/12/24 21:06	04/12/24 21:06	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:02	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:43	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/06/24 23:55	04/06/24 23:55	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1.05	04/10/24 07:35	04/16/24 03:07	ALM	Mt. Juliet, TN

MW-32 L1722760-22 GW

Collected by | Collected date/time 04/04/24 08:50 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 00:57	04/17/24 00:57	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263166	1	04/12/24 22:23	04/12/24 22:23	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:04	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:46	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 18:57	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 02:16	04/12/24 02:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 00:14	04/07/24 00:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 21:08	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 08:50	ALM	Mt. Juliet, TN

MW-33 L1722760-23 GW

Collected by | Collected date/time 04/04/24 10:00 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 01:10	04/17/24 01:10	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 12:21	04/12/24 12:21	GEB	Mt. Juliet, TN

MW-33 L1722760-23 GW

Collected by | Collected date/time 04/04/24 10:00 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 09:29	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 08:49	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 17:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 02:38	04/12/24 02:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 00:33	04/07/24 00:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 21:28	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 03:28	ALM	Mt. Juliet, TN

WW-NORTH L1722760-24 GW

Collected by | Collected date/time 04/04/24 09:50 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 01:47	04/17/24 01:47	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 13:12	04/12/24 13:12	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:06	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:50	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 19:00	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 03:02	04/12/24 03:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 00:52	04/07/24 00:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 22:29	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 04:33	ALM	Mt. Juliet, TN

WW-SOUTH L1722760-25 GW

Collected by | Collected date/time 04/04/24 09:05 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 02:25	04/17/24 02:25	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 13:51	04/12/24 13:51	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	5	04/12/24 14:03	04/12/24 14:03	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:08	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:53	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 19:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 03:24	04/12/24 03:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 01:11	04/07/24 01:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 22:50	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 04:54	ALM	Mt. Juliet, TN

WW-EAST L1722760-26 GW

Collected by | Collected date/time 04/04/24 10:50 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 02:38	04/17/24 02:38	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 14:16	04/12/24 14:16	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:11	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 09:57	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 19:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 03:47	04/12/24 03:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 01:30	04/07/24 01:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 23:10	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 05:16	ALM	Mt. Juliet, TN

DUP-01 L1722760-27 GW

Collected by | Collected date/time 04/04/24 10:00 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 03:03	04/17/24 03:03	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 14:29	04/12/24 14:29	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	5	04/12/24 14:42	04/12/24 14:42	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:13	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 10:07	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 19:10	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 04:10	04/12/24 04:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 01:49	04/07/24 01:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 23:30	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 05:37	ALM	Mt. Juliet, TN

DUP-02 L1722760-28 GW

Collected by | Collected date/time 04/04/24 10:00 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 03:16	04/17/24 03:16	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 14:55	04/12/24 14:55	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:20	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 10:11	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 19:13	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 04:33	04/12/24 04:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 02:07	04/07/24 02:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/14/24 23:51	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 09:12	ALM	Mt. Juliet, TN

DUP-03 L1722760-29 GW

Collected by | Collected date/time 04/04/24 11:00 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 03:28	04/17/24 03:28	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 15:07	04/12/24 15:07	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:23	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 10:15	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262919	1	04/09/24 06:08	04/15/24 19:16	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 04:56	04/12/24 04:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 02:26	04/07/24 02:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/15/24 18:33	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2263770	1	04/10/24 07:35	04/16/24 05:58	ALM	Mt. Juliet, TN

EB-01 L1722760-30 GW

Collected by | Collected date/time 04/04/24 11:10 | Received date/time 04/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 03:41	04/17/24 03:41	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 15:20	04/12/24 15:20	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:25	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 10:18	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262982	1	04/11/24 08:41	04/15/24 22:13	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2265329	1	04/12/24 01:30	04/12/24 01:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 04:01	04/07/24 04:01	DWR	Mt. Juliet, TN

EB-01 L1722760-30 GW

			Collected by	Collected date/time	Received date/time	
				04/04/24 11:10	04/05/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2265501	1	04/12/24 07:49	04/15/24 00:31	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2264600	1	04/11/24 06:34	04/15/24 13:02	JRM	Mt. Juliet, TN

EB-02 L1722760-31 GW

			Collected by	Collected date/time	Received date/time	
				04/04/24 08:25	04/05/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2264473	1	04/10/24 19:18	04/11/24 14:01	JDG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2261457	1	04/17/24 03:53	04/17/24 03:53	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2263160	1	04/12/24 15:33	04/12/24 15:33	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2261624	1	04/07/24 21:59	04/09/24 10:27	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2262892	1	04/09/24 01:35	04/09/24 10:22	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2262982	1	04/11/24 08:41	04/15/24 21:11	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 03:42	04/07/24 03:42	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2264600	1	04/11/24 06:34	04/15/24 13:24	JRM	Mt. Juliet, TN

TRIP BLANK-01 L1722760-32 GW

			Collected by	Collected date/time	Received date/time	
				04/04/24 00:00	04/05/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2262003	1	04/07/24 03:23	04/07/24 03:23	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.



Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 04/29/24 17:58

Project Narrative

7/9/24: Revised report to correct QC.

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1722760-23	MW-33	3511/8015
L1722760-29	DUP-03	3511/8015
L1722760-30	EB-01	3511/8015

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
R4057182-3		6020

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	511		10.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	97.5		0.379	1.00	1	04/13/2024 05:07	WG2266241
Fluoride	0.827		0.0640	0.150	1	04/05/2024 21:57	WG2261452
Nitrate	6.14		0.0480	0.100	1	04/05/2024 21:57	WG2261452
Nitrite	U		0.0420	0.100	1	04/05/2024 21:57	WG2261452
Sulfate	76.1		0.594	5.00	1	04/05/2024 21:57	WG2261452

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/08/2024 17:10	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.178	J	0.0200	0.200	1	04/09/2024 12:38	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/11/2024 19:16	WG2262893
Arsenic,Dissolved	0.00620		0.000180	0.00200	1	04/11/2024 19:16	WG2262893
Barium,Dissolved	0.184		0.000381	0.00200	1	04/11/2024 19:16	WG2262893
Cadmium,Dissolved	U		0.000150	0.00100	1	04/11/2024 19:16	WG2262893
Chromium,Dissolved	U		0.00124	0.00200	1	04/11/2024 19:16	WG2262893
Copper,Dissolved	U		0.00151	0.00500	1	04/11/2024 19:16	WG2262893
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/11/2024 19:16	WG2262893
Iron,Dissolved	U		0.0281	0.100	1	04/11/2024 19:16	WG2262893
Lead,Dissolved	U		0.000849	0.00200	1	04/11/2024 19:16	WG2262893
Manganese,Dissolved	U		0.000704	0.00500	1	04/11/2024 19:16	WG2262893
Molybdenum,Dissolved	0.00216	J	0.000348	0.00500	1	04/11/2024 19:16	WG2262893
Nickel,Dissolved	U		0.000816	0.00200	1	04/11/2024 19:16	WG2262893
Selenium,Dissolved	0.00186	J	0.000300	0.00200	1	04/11/2024 19:16	WG2262893
Silver,Dissolved	U		0.0000700	0.00200	1	04/12/2024 19:01	WG2265555
Uranium,Dissolved	0.00211	J	0.0000700	0.0200	1	04/11/2024 19:16	WG2262893
Zinc,Dissolved	0.00485	J	0.00302	0.0250	1	04/11/2024 19:16	WG2262893

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/07/2024 18:48	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 18:48	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 18:48	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 18:48	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 18:48	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 18:48	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 18:48	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 18:48	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 18:48	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 18:48	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 18:48	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 18:48	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 18:48	WG2262002
Chloroform	0.000950	J	0.000111	0.00500	1	04/07/2024 18:48	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 18:48	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 18:48	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 18:48	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 18:48	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 18:48	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 18:48	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 18:48	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 18:48	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 18:48	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 18:48	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 18:48	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 18:48	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 18:48	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 18:48	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 18:48	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 18:48	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 18:48	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 18:48	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 18:48	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 18:48	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 18:48	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 18:48	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 18:48	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 18:48	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 18:48	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 18:48	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 18:48	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 18:48	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 18:48	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 18:48	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 18:48	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 18:48	WG2262002
(S) Toluene-d8	*94.2*			*80.0-120*		*04/07/2024 18:48*	WG2262002
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/07/2024 18:48*	WG2262002
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*04/07/2024 18:48*	WG2262002

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	671		13.3	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	198		1.90	5.00	5	04/06/2024 06:23	WG2261452
Fluoride	0.891		0.0640	0.150	1	04/05/2024 22:13	WG2261452
Nitrate	3.22		0.0480	0.100	1	04/05/2024 22:13	WG2261452
Nitrite	U		0.0420	0.100	1	04/05/2024 22:13	WG2261452
Sulfate	74.9		0.594	5.00	1	04/05/2024 22:13	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/08/2024 17:12	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.201		0.0200	0.200	1	04/09/2024 12:41	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/11/2024 19:19	WG2262893
Arsenic,Dissolved	0.00358		0.000180	0.00200	1	04/11/2024 19:19	WG2262893
Barium,Dissolved	0.107		0.000381	0.00200	1	04/11/2024 19:19	WG2262893
Cadmium,Dissolved	U		0.000150	0.00100	1	04/11/2024 19:19	WG2262893
Chromium,Dissolved	U		0.00124	0.00200	1	04/11/2024 19:19	WG2262893
Copper,Dissolved	0.00735		0.00151	0.00500	1	04/11/2024 19:19	WG2262893
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/11/2024 19:19	WG2262893
Iron,Dissolved	U		0.0281	0.100	1	04/11/2024 19:19	WG2262893
Lead,Dissolved	U		0.000849	0.00200	1	04/11/2024 19:19	WG2262893
Manganese,Dissolved	0.000734	J	0.000704	0.00500	1	04/11/2024 19:19	WG2262893
Molybdenum,Dissolved	0.00251	J	0.000348	0.00500	1	04/11/2024 19:19	WG2262893
Nickel,Dissolved	0.000838	J	0.000816	0.00200	1	04/11/2024 19:19	WG2262893
Selenium,Dissolved	0.00155	J	0.000300	0.00200	1	04/11/2024 19:19	WG2262893
Silver,Dissolved	U		0.0000700	0.00200	1	04/12/2024 17:23	WG2265555
Uranium,Dissolved	0.00236	J	0.0000700	0.0200	1	04/11/2024 19:19	WG2262893
Zinc,Dissolved	0.0604		0.00302	0.0250	1	04/11/2024 19:19	WG2262893

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 19:08	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 19:08	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 19:08	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 19:08	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 19:08	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 19:08	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 19:08	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 19:08	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 19:08	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 19:08	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 19:08	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 19:08	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 19:08	WG2262002
Chloroform	0.000191	J	0.000111	0.00500	1	04/07/2024 19:08	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 19:08	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 19:08	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 19:08	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 19:08	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 19:08	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 19:08	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 19:08	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 19:08	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 19:08	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 19:08	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 19:08	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 19:08	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 19:08	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 19:08	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 19:08	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 19:08	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 19:08	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 19:08	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 19:08	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 19:08	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 19:08	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 19:08	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 19:08	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 19:08	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 19:08	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 19:08	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 19:08	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 19:08	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 19:08	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 19:08	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 19:08	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 19:08	WG2262002
(S) Toluene-d8	*93.6*			*80.0-120*		*04/07/2024 19:08*	WG2262002
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/07/2024 19:08*	WG2262002
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*04/07/2024 19:08*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 00:09	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 00:09	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 00:09	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 00:09	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 00:09	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 00:09	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 00:09	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 00:09	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 00:09	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 00:09	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 00:09	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 00:09	WG2263382

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 00:09	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 00:09	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 00:09	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 00:09	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 00:09	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 00:09	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 00:09	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 00:09	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 00:09	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 00:09	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 00:09	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 00:09	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 00:09	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 00:09	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 00:09	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 00:09	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 00:09	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 00:09	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 00:09	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 00:09	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 00:09	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 00:09	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 00:09	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 00:09	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 00:09	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 00:09	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 00:09	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 00:09	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 00:09	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 00:09	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 00:09	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 00:09	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 00:09	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 00:09	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 00:09	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 00:09	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 00:09	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 00:09	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 00:09	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 00:09	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 00:09	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 00:09	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 00:09	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 00:09	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 00:09	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 00:09	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 00:09	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 00:09	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 00:09	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 00:09	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 00:09	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 00:09	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 00:09	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 00:09	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 00:09	WG2263382
(S) 2-Fluorophenol	*38.2*			*10.0-120*		*04/10/2024 00:09*	WG2263382

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*25.1*			*10.0-120*		*04/10/2024 00:09*	WG2263382
(S) Nitrobenzene-d5	*59.4*			*10.0-127*		*04/10/2024 00:09*	WG2263382
(S) 2-Fluorobiphenyl	*67.8*			*10.0-130*		*04/10/2024 00:09*	WG2263382
(S) 2,4,6-Tribromophenol	*74.0*			*10.0-155*		*04/10/2024 00:09*	WG2263382
(S) p-Terphenyl-d14	*73.8*			*10.0-128*		*04/10/2024 00:09*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	581		10.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	122		0.379	1.00	1	04/13/2024 05:20	WG2266241
Fluoride	0.952		0.0640	0.150	1	04/05/2024 22:30	WG2261452
Nitrate	4.39		0.0480	0.100	1	04/05/2024 22:30	WG2261452
Nitrite	U		0.0420	0.100	1	04/05/2024 22:30	WG2261452
Sulfate	70.7		0.594	5.00	1	04/05/2024 22:30	WG2261452

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/08/2024 17:14	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.170	J	0.0200	0.200	1	04/09/2024 12:44	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/11/2024 19:23	WG2262893
Arsenic,Dissolved	0.00408		0.000180	0.00200	1	04/11/2024 19:23	WG2262893
Barium,Dissolved	0.117		0.000381	0.00200	1	04/11/2024 19:23	WG2262893
Cadmium,Dissolved	U		0.000150	0.00100	1	04/11/2024 19:23	WG2262893
Chromium,Dissolved	0.00735		0.00124	0.00200	1	04/11/2024 19:23	WG2262893
Copper,Dissolved	0.00191	J	0.00151	0.00500	1	04/11/2024 19:23	WG2262893
Cobalt,Dissolved	0.000194	J	0.0000596	0.00200	1	04/11/2024 19:23	WG2262893
Iron,Dissolved	U		0.0281	0.100	1	04/11/2024 19:23	WG2262893
Lead,Dissolved	U		0.000849	0.00200	1	04/11/2024 19:23	WG2262893
Manganese,Dissolved	0.00180	J	0.000704	0.00500	1	04/11/2024 19:23	WG2262893
Molybdenum,Dissolved	0.00247	J	0.000348	0.00500	1	04/11/2024 19:23	WG2262893
Nickel,Dissolved	0.000913	J	0.000816	0.00200	1	04/11/2024 19:23	WG2262893
Selenium,Dissolved	0.00193	J	0.000300	0.00200	1	04/11/2024 19:23	WG2262893
Silver,Dissolved	U		0.0000700	0.00200	1	04/12/2024 17:26	WG2265555
Uranium,Dissolved	0.00198	J	0.0000700	0.0200	1	04/11/2024 19:23	WG2262893
Zinc,Dissolved	0.00837	J	0.00302	0.0250	1	04/11/2024 19:23	WG2262893

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/07/2024 19:27	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 19:27	WG2262002
Bromodichloromethane	0.00198		0.000136	0.00100	1	04/07/2024 19:27	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 19:27	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 19:27	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 19:27	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 19:27	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 19:27	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 19:27	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 19:27	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 19:27	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 19:27	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 19:27	WG2262002
Chloroform	0.0109		0.000111	0.00500	1	04/07/2024 19:27	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 19:27	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 19:27	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 19:27	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 19:27	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 19:27	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 19:27	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 19:27	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 19:27	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 19:27	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 19:27	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 19:27	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 19:27	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 19:27	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 19:27	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 19:27	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 19:27	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 19:27	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 19:27	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 19:27	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 19:27	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 19:27	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 19:27	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 19:27	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 19:27	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 19:27	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 19:27	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 19:27	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 19:27	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 19:27	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 19:27	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 19:27	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 19:27	WG2262002
(S) Toluene-d8	*91.0*			*80.0-120*		*04/07/2024 19:27*	WG2262002
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/07/2024 19:27*	WG2262002
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*04/07/2024 19:27*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 00:30	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 00:30	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 00:30	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 00:30	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 00:30	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 00:30	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 00:30	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 00:30	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 00:30	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 00:30	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 00:30	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 00:30	WG2263382

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 00:30	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 00:30	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 00:30	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 00:30	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 00:30	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 00:30	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 00:30	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 00:30	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 00:30	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 00:30	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 00:30	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 00:30	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 00:30	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 00:30	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 00:30	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 00:30	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 00:30	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 00:30	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 00:30	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 00:30	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 00:30	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 00:30	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 00:30	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 00:30	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 00:30	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 00:30	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 00:30	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 00:30	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 00:30	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 00:30	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 00:30	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 00:30	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 00:30	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 00:30	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 00:30	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 00:30	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 00:30	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 00:30	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 00:30	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 00:30	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 00:30	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 00:30	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 00:30	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 00:30	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 00:30	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 00:30	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 00:30	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 00:30	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 00:30	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 00:30	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 00:30	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 00:30	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 00:30	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 00:30	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 00:30	WG2263382
(S) 2-Fluorophenol	*36.2*			*10.0-120*		*04/10/2024 00:30*	WG2263382

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

MW-4
Collected date/time: 04/04/24 09:35
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*27.0*			*10.0-120*		*04/10/2024 00:30*	WG2263382
(S) Nitrobenzene-d5	*56.8*			*10.0-127*		*04/10/2024 00:30*	WG2263382
(S) 2-Fluorobiphenyl	*66.7*			*10.0-130*		*04/10/2024 00:30*	WG2263382
(S) 2,4,6-Tribromophenol	*73.0*			*10.0-155*		*04/10/2024 00:30*	WG2263382
(S) p-Terphenyl-d14	*68.0*			*10.0-128*		*04/10/2024 00:30*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	368		10.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	11.9		0.379	1.00	1	04/05/2024 22:47	WG2261452
Fluoride	0.991		0.0640	0.150	1	04/05/2024 22:47	WG2261452
Nitrate	2.61		0.0480	0.100	1	04/05/2024 22:47	WG2261452
Nitrite	U		0.0420	0.100	1	04/05/2024 22:47	WG2261452
Sulfate	23.9		0.594	5.00	1	04/05/2024 22:47	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/08/2024 17:17	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.0773	J	0.0200	0.200	1	04/09/2024 12:46	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	0.0193	J	0.0185	0.100	1	04/11/2024 19:26	WG2262893
Arsenic,Dissolved	0.00241		0.000180	0.00200	1	04/11/2024 19:26	WG2262893
Barium,Dissolved	0.109		0.000381	0.00200	1	04/11/2024 19:26	WG2262893
Cadmium,Dissolved	U		0.000150	0.00100	1	04/11/2024 19:26	WG2262893
Chromium,Dissolved	U		0.00124	0.00200	1	04/11/2024 19:26	WG2262893
Copper,Dissolved	0.00885		0.00151	0.00500	1	04/11/2024 19:26	WG2262893
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/11/2024 19:26	WG2262893
Iron,Dissolved	U		0.0281	0.100	1	04/11/2024 19:26	WG2262893
Lead,Dissolved	U		0.000849	0.00200	1	04/11/2024 19:26	WG2262893
Manganese,Dissolved	U		0.000704	0.00500	1	04/11/2024 19:26	WG2262893
Molybdenum,Dissolved	0.00169	J	0.000348	0.00500	1	04/11/2024 19:26	WG2262893
Nickel,Dissolved	U		0.000816	0.00200	1	04/11/2024 19:26	WG2262893
Selenium,Dissolved	0.000528	J	0.000300	0.00200	1	04/11/2024 19:26	WG2262893
Silver,Dissolved	U		0.0000700	0.00200	1	04/12/2024 17:30	WG2265555
Uranium,Dissolved	0.00210	J	0.0000700	0.0200	1	04/11/2024 19:26	WG2262893
Zinc,Dissolved	0.0236	J	0.00302	0.0250	1	04/11/2024 19:26	WG2262893

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/12/2024 01:53	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*93.6*			*78.0-120*		*04/12/2024 01:53*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 19:46	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 19:46	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 19:46	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 19:46	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 19:46	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 19:46	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 19:46	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 19:46	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 19:46	WG2262002
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 19:46	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 19:46	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 19:46	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 19:46	WG2262002
Chloroform	U		0.000111	0.00500	1	04/07/2024 19:46	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 19:46	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 19:46	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 19:46	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 19:46	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 19:46	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 19:46	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 19:46	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 19:46	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 19:46	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 19:46	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 19:46	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 19:46	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 19:46	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 19:46	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 19:46	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 19:46	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 19:46	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 19:46	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 19:46	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 19:46	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 19:46	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 19:46	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 19:46	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 19:46	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 19:46	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 19:46	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 19:46	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 19:46	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 19:46	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 19:46	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 19:46	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 19:46	WG2262002
(S) Toluene-d8	*94.3*			*80.0-120*		*04/07/2024 19:46*	WG2262002
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/07/2024 19:46*	WG2262002
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*04/07/2024 19:46*	WG2262002

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/14/2024 20:47	WG2265501
(S) o-Terphenyl	*93.7*			*52.0-156*		*04/14/2024 20:47*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 00:52	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 00:52	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 00:52	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 00:52	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 00:52	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 00:52	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 00:52	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 00:52	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 00:52	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 00:52	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 00:52	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 00:52	WG2263382
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 00:52	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 00:52	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 00:52	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 00:52	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 00:52	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 00:52	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 00:52	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 00:52	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 00:52	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 00:52	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 00:52	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 00:52	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 00:52	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 00:52	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 00:52	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 00:52	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 00:52	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 00:52	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 00:52	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 00:52	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 00:52	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 00:52	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 00:52	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 00:52	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 00:52	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 00:52	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 00:52	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 00:52	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 00:52	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 00:52	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 00:52	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 00:52	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 00:52	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 00:52	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 00:52	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 00:52	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 00:52	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 00:52	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 00:52	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 00:52	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 00:52	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 00:52	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 00:52	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 00:52	WG2263382

MW-3
Collected date/time: 04/04/24 11:30
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 00:52	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 00:52	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 00:52	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 00:52	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 00:52	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 00:52	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 00:52	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 00:52	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 00:52	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 00:52	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 00:52	WG2263382
(S) 2-Fluorophenol	*40.8*			*10.0-120*		*04/10/2024 00:52*	WG2263382
(S) Phenol-d5	*28.6*			*10.0-120*		*04/10/2024 00:52*	WG2263382
(S) Nitrobenzene-d5	*60.1*			*10.0-127*		*04/10/2024 00:52*	WG2263382
(S) 2-Fluorobiphenyl	*67.6*			*10.0-130*		*04/10/2024 00:52*	WG2263382
(S) 2,4,6-Tribromophenol	*70.0*			*10.0-155*		*04/10/2024 00:52*	WG2263382
(S) p-Terphenyl-d14	*76.3*			*10.0-128*		*04/10/2024 00:52*	WG2263382

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	660		13.3	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	115		0.379	1.00	1	04/13/2024 05:32	WG2266241
Fluoride	0.781		0.0640	0.150	1	04/05/2024 23:04	WG2261452
Nitrate	11.0		0.0480	0.100	1	04/05/2024 23:04	WG2261452
Nitrite	U		0.0420	0.100	1	04/05/2024 23:04	WG2261452
Sulfate	90.8		0.594	5.00	1	04/13/2024 05:32	WG2266241

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/08/2024 17:19	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.171	J	0.0200	0.200	1	04/09/2024 12:49	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:09	WG2262919
Arsenic,Dissolved	0.00631		0.000180	0.00200	1	04/15/2024 18:09	WG2262919
Barium,Dissolved	0.187		0.000381	0.00200	1	04/15/2024 18:09	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:09	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:09	WG2262919
Copper,Dissolved	0.0102		0.00151	0.00500	1	04/15/2024 18:09	WG2262919
Cobalt,Dissolved	0.0000931	J	0.0000596	0.00200	1	04/15/2024 18:09	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:09	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:09	WG2262919
Manganese,Dissolved	0.00209	J	0.000704	0.00500	1	04/15/2024 18:09	WG2262919
Molybdenum,Dissolved	0.00163	J	0.000348	0.00500	1	04/15/2024 18:09	WG2262919
Nickel,Dissolved	0.00221		0.000816	0.00200	1	04/15/2024 18:09	WG2262919
Selenium,Dissolved	0.00323		0.000300	0.00200	1	04/15/2024 18:09	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:09	WG2262919
Uranium,Dissolved	0.00394	J	0.0000700	0.0200	1	04/15/2024 18:09	WG2262919
Zinc,Dissolved	0.102		0.00302	0.0250	1	04/15/2024 18:09	WG2262919

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/07/2024 20:05	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 20:05	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 20:05	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 20:05	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 20:05	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 20:05	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 20:05	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 20:05	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 20:05	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 20:05	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 20:05	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 20:05	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 20:05	WG2262002
Chloroform	0.000257	J	0.000111	0.00500	1	04/07/2024 20:05	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 20:05	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 20:05	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 20:05	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 20:05	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 20:05	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 20:05	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 20:05	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 20:05	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 20:05	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 20:05	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 20:05	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 20:05	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 20:05	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 20:05	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 20:05	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 20:05	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 20:05	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 20:05	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 20:05	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 20:05	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 20:05	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 20:05	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 20:05	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 20:05	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 20:05	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 20:05	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 20:05	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 20:05	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 20:05	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 20:05	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 20:05	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 20:05	WG2262002
(S) Toluene-d8	*94.2*			*80.0-120*		*04/07/2024 20:05*	WG2262002
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/07/2024 20:05*	WG2262002
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*04/07/2024 20:05*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 01:13	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 01:13	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 01:13	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 01:13	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 01:13	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 01:13	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 01:13	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 01:13	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 01:13	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 01:13	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 01:13	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 01:13	WG2263382

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 01:13	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 01:13	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 01:13	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 01:13	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 01:13	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 01:13	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 01:13	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 01:13	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 01:13	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 01:13	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 01:13	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 01:13	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 01:13	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 01:13	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 01:13	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 01:13	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 01:13	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 01:13	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 01:13	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 01:13	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 01:13	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 01:13	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 01:13	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 01:13	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 01:13	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 01:13	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 01:13	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 01:13	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 01:13	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 01:13	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 01:13	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 01:13	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 01:13	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 01:13	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 01:13	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 01:13	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 01:13	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 01:13	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 01:13	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 01:13	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 01:13	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 01:13	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 01:13	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 01:13	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 01:13	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 01:13	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 01:13	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 01:13	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 01:13	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 01:13	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 01:13	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 01:13	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 01:13	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 01:13	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 01:13	WG2263382
(S) 2-Fluorophenol	*36.2*			*10.0-120*		*04/10/2024 01:13*	WG2263382

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*24.6*			*10.0-120*		*04/10/2024 01:13*	WG2263382
(S) Nitrobenzene-d5	*57.3*			*10.0-127*		*04/10/2024 01:13*	WG2263382
(S) 2-Fluorobiphenyl	*67.2*			*10.0-130*		*04/10/2024 01:13*	WG2263382
(S) 2,4,6-Tribromophenol	*77.0*			*10.0-155*		*04/10/2024 01:13*	WG2263382
(S) p-Terphenyl-d14	*79.0*			*10.0-128*		*04/10/2024 01:13*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1390		25.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	444		1.90	5.00	5	04/06/2024 06:40	WG2261452
Fluoride	0.525		0.0640	0.150	1	04/05/2024 23:55	WG2261452
Nitrate	1.89		0.0480	0.100	1	04/05/2024 23:55	WG2261452
Nitrite	U		0.0420	0.100	1	04/05/2024 23:55	WG2261452
Sulfate	107		2.97	25.0	5	04/06/2024 06:40	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/08/2024 17:21	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.873		0.0200	0.200	1	04/09/2024 12:53	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:12	WG2262919
Arsenic,Dissolved	0.00676		0.000180	0.00200	1	04/15/2024 18:12	WG2262919
Barium,Dissolved	0.381		0.000381	0.00200	1	04/15/2024 18:12	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:12	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:12	WG2262919
Copper,Dissolved	0.00389	J	0.00151	0.00500	1	04/15/2024 18:12	WG2262919
Cobalt,Dissolved	0.00446		0.0000596	0.00200	1	04/15/2024 18:12	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:12	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:12	WG2262919
Manganese,Dissolved	0.0110		0.000704	0.00500	1	04/15/2024 18:12	WG2262919
Molybdenum,Dissolved	0.000956	J	0.000348	0.00500	1	04/15/2024 18:12	WG2262919
Nickel,Dissolved	0.0511		0.000816	0.00200	1	04/15/2024 18:12	WG2262919
Selenium,Dissolved	0.00276		0.000300	0.00200	1	04/15/2024 18:12	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:12	WG2262919
Uranium,Dissolved	0.00807	J	0.0000700	0.0200	1	04/15/2024 18:12	WG2262919
Zinc,Dissolved	0.00656	J	0.00302	0.0250	1	04/15/2024 18:12	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 20:24	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 20:24	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 20:24	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 20:24	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 20:24	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 20:24	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 20:24	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 20:24	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 20:24	WG2262002

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 20:24	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 20:24	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 20:24	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 20:24	WG2262002
Chloroform	U		0.000111	0.00500	1	04/07/2024 20:24	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 20:24	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 20:24	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 20:24	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 20:24	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 20:24	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 20:24	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 20:24	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 20:24	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 20:24	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 20:24	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 20:24	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 20:24	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 20:24	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 20:24	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 20:24	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 20:24	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 20:24	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 20:24	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 20:24	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 20:24	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 20:24	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 20:24	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 20:24	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 20:24	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 20:24	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 20:24	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 20:24	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 20:24	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 20:24	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 20:24	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 20:24	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 20:24	WG2262002
(S) Toluene-d8	*93.4*			*80.0-120*		*04/07/2024 20:24*	WG2262002
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/07/2024 20:24*	WG2262002
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*04/07/2024 20:24*	WG2262002

MW-9
Collected date/time: 04/04/24 10:25
L1722760

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	134		1.90	5.00	5	04/06/2024 06:57	WG2261452
Fluoride	0.328		0.0640	0.150	1	04/06/2024 00:12	WG2261452
Nitrate	3.55		0.0480	0.100	1	04/06/2024 00:12	WG2261452
Nitrite	0.199		0.0420	0.100	1	04/06/2024 00:12	WG2261452
Sulfate	85.9		2.97	25.0	5	04/06/2024 06:57	WG2261452

MW-10
Collected date/time: 04/04/24 11:05
L1722760

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	43.3		0.379	1.00	1	04/06/2024 00:29	WG2261452
Fluoride	0.969		0.0640	0.150	1	04/06/2024 00:29	WG2261452
Nitrate	2.26		0.0480	0.100	1	04/06/2024 00:29	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 00:29	WG2261452
Sulfate	61.4		0.594	5.00	1	04/06/2024 00:29	WG2261452

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1230		20.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	339		1.90	5.00	5	04/06/2024 07:13	WG2261452
Fluoride	0.557		0.0640	0.150	1	04/06/2024 01:19	WG2261452
Nitrate	1.94		0.0480	0.100	1	04/06/2024 01:19	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 01:19	WG2261452
Sulfate	86.9		0.594	5.00	1	04/06/2024 01:19	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/08/2024 17:24	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.267		0.0200	0.200	1	04/09/2024 12:56	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:16	WG2262919
Arsenic,Dissolved	0.00363		0.000180	0.00200	1	04/15/2024 18:16	WG2262919
Barium,Dissolved	0.318		0.000381	0.00200	1	04/15/2024 18:16	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:16	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:16	WG2262919
Copper,Dissolved	0.0189		0.00151	0.00500	1	04/15/2024 18:16	WG2262919
Cobalt,Dissolved	0.00185	J	0.0000596	0.00200	1	04/15/2024 18:16	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:16	WG2262919
Lead,Dissolved	0.00102	J	0.000849	0.00200	1	04/15/2024 18:16	WG2262919
Manganese,Dissolved	0.692		0.000704	0.00500	1	04/15/2024 18:16	WG2262919
Molybdenum,Dissolved	0.00106	J	0.000348	0.00500	1	04/15/2024 18:16	WG2262919
Nickel,Dissolved	0.00540		0.000816	0.00200	1	04/15/2024 18:16	WG2262919
Selenium,Dissolved	0.000910	J	0.000300	0.00200	1	04/15/2024 18:16	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:16	WG2262919
Uranium,Dissolved	0.00718	J	0.0000700	0.0200	1	04/15/2024 18:16	WG2262919
Zinc,Dissolved	0.0749		0.00302	0.0250	1	04/15/2024 18:16	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 22:56	WG2262002
Benzene	0.0840		0.0000941	0.00100	1	04/07/2024 22:56	WG2262002
Bromodichloromethane	0.000239	J	0.000136	0.00100	1	04/07/2024 22:56	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 22:56	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 22:56	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 22:56	WG2262002
sec-Butylbenzene	0.000342	J	0.000125	0.00100	1	04/07/2024 22:56	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 22:56	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 22:56	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 22:56	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 22:56	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 22:56	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 22:56	WG2262002
Chloroform	0.00264	J	0.000111	0.00500	1	04/07/2024 22:56	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 22:56	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 22:56	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 22:56	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 22:56	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 22:56	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 22:56	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 22:56	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 22:56	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 22:56	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 22:56	WG2262002
Ethylbenzene	0.00651		0.000137	0.00100	1	04/07/2024 22:56	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 22:56	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 22:56	WG2262002
Isopropylbenzene	0.00114		0.000105	0.00100	1	04/07/2024 22:56	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 22:56	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 22:56	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 22:56	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 22:56	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 22:56	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 22:56	WG2262002
n-Propylbenzene	0.000954	J	0.0000993	0.00100	1	04/07/2024 22:56	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 22:56	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 22:56	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 22:56	WG2262002
Toluene	0.00500		0.000278	0.00100	1	04/07/2024 22:56	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 22:56	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 22:56	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 22:56	WG2262002
1,2,4-Trimethylbenzene	0.00244		0.000322	0.00100	1	04/07/2024 22:56	WG2262002
1,3,5-Trimethylbenzene	0.000863	J	0.000104	0.00100	1	04/07/2024 22:56	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 22:56	WG2262002
Xylenes, Total	0.0226		0.000174	0.00300	1	04/07/2024 22:56	WG2262002
(S) Toluene-d8	*94.5*			*80.0-120*		*04/07/2024 22:56*	WG2262002
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/07/2024 22:56*	WG2262002
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*04/07/2024 22:56*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 01:35	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 01:35	WG2263382
Acetophenone	0.000672	J	0.000208	0.0100	1	04/10/2024 01:35	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 01:35	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 01:35	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 01:35	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 01:35	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 01:35	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 01:35	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 01:35	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 01:35	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 01:35	WG2263382

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 01:35	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 01:35	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 01:35	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 01:35	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 01:35	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 01:35	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 01:35	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 01:35	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 01:35	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 01:35	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 01:35	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 01:35	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 01:35	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 01:35	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 01:35	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 01:35	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 01:35	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 01:35	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 01:35	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 01:35	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 01:35	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 01:35	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 01:35	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 01:35	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 01:35	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 01:35	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 01:35	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 01:35	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 01:35	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 01:35	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 01:35	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 01:35	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 01:35	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 01:35	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 01:35	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 01:35	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 01:35	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 01:35	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 01:35	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 01:35	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 01:35	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 01:35	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 01:35	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 01:35	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 01:35	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 01:35	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 01:35	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 01:35	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 01:35	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 01:35	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 01:35	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 01:35	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 01:35	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 01:35	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 01:35	WG2263382
(S) 2-Fluorophenol	*32.2*			*10.0-120*		*04/10/2024 01:35*	WG2263382

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

MW-11R
Collected date/time: 04/04/24 08:45
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) Phenol-d5	*25.8*			*10.0-120*		*04/10/2024 01:35*	WG2263382
(S) Nitrobenzene-d5	*63.5*			*10.0-127*		*04/10/2024 01:35*	WG2263382
(S) 2-Fluorobiphenyl	*68.3*			*10.0-130*		*04/10/2024 01:35*	WG2263382
(S) 2,4,6-Tribromophenol	*74.6*			*10.0-155*		*04/10/2024 01:35*	WG2263382
(S) p-Terphenyl-d14	*73.1*			*10.0-128*		*04/10/2024 01:35*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1050		20.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	261		1.90	5.00	5	04/06/2024 07:30	WG2261452
Fluoride	0.433		0.0640	0.150	1	04/06/2024 01:36	WG2261452
Nitrate	1.07		0.0480	0.100	1	04/06/2024 01:36	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 01:36	WG2261452
Sulfate	112		2.97	25.0	5	04/06/2024 07:30	WG2261452

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/08/2024 17:26	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.280		0.0200	0.200	1	04/09/2024 13:04	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:19	WG2262919
Arsenic,Dissolved	0.00314		0.000180	0.00200	1	04/15/2024 18:19	WG2262919
Barium,Dissolved	0.117		0.000381	0.00200	1	04/15/2024 18:19	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:19	WG2262919
Chromium,Dissolved	0.00332		0.00124	0.00200	1	04/15/2024 18:19	WG2262919
Copper,Dissolved	0.00802		0.00151	0.00500	1	04/15/2024 18:19	WG2262919
Cobalt,Dissolved	0.000501	J	0.0000596	0.00200	1	04/15/2024 18:19	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:19	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:19	WG2262919
Manganese,Dissolved	0.00648		0.000704	0.00500	1	04/15/2024 18:19	WG2262919
Molybdenum,Dissolved	0.000637	J	0.000348	0.00500	1	04/15/2024 18:19	WG2262919
Nickel,Dissolved	0.00678		0.000816	0.00200	1	04/15/2024 18:19	WG2262919
Selenium,Dissolved	0.00121	J	0.000300	0.00200	1	04/15/2024 18:19	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:19	WG2262919
Uranium,Dissolved	0.0113	J	0.0000700	0.0200	1	04/15/2024 18:19	WG2262919
Zinc,Dissolved	0.0122	J	0.00302	0.0250	1	04/15/2024 18:19	WG2262919

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/07/2024 20:43	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 20:43	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 20:43	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 20:43	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 20:43	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 20:43	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 20:43	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 20:43	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 20:43	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 20:43	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 20:43	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 20:43	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 20:43	WG2262002
Chloroform	0.000674	J	0.000111	0.00500	1	04/07/2024 20:43	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 20:43	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 20:43	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 20:43	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 20:43	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 20:43	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 20:43	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 20:43	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 20:43	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 20:43	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 20:43	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 20:43	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 20:43	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 20:43	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 20:43	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 20:43	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 20:43	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 20:43	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 20:43	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 20:43	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 20:43	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 20:43	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 20:43	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 20:43	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 20:43	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 20:43	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 20:43	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 20:43	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 20:43	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 20:43	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 20:43	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 20:43	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 20:43	WG2262002
(S) Toluene-d8	*92.7*			*80.0-120*		*04/07/2024 20:43*	WG2262002
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/07/2024 20:43*	WG2262002
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*04/07/2024 20:43*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 01:56	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 01:56	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 01:56	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 01:56	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 01:56	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 01:56	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 01:56	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 01:56	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 01:56	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 01:56	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 01:56	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 01:56	WG2263382

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 01:56	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 01:56	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 01:56	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 01:56	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 01:56	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 01:56	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 01:56	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 01:56	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 01:56	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 01:56	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 01:56	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 01:56	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 01:56	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 01:56	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 01:56	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 01:56	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 01:56	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 01:56	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 01:56	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 01:56	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 01:56	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 01:56	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 01:56	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 01:56	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 01:56	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 01:56	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 01:56	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 01:56	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 01:56	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 01:56	WG2263382
Bis(2-ethylhexyl)phthalate	0.00121	J	0.000895	0.00300	1	04/10/2024 01:56	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 01:56	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 01:56	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 01:56	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 01:56	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 01:56	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 01:56	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 01:56	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 01:56	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 01:56	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 01:56	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 01:56	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 01:56	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 01:56	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 01:56	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 01:56	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 01:56	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 01:56	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 01:56	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 01:56	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 01:56	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 01:56	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 01:56	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 01:56	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 01:56	WG2263382
(S) 2-Fluorophenol	*40.9*			*10.0-120*		*04/10/2024 01:56*	WG2263382

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

MW-13R
Collected date/time: 04/04/24 10:50
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*28.5*			*10.0-120*		*04/10/2024 01:56*	WG2263382
(S) Nitrobenzene-d5	*65.0*			*10.0-127*		*04/10/2024 01:56*	WG2263382
(S) 2-Fluorobiphenyl	*75.9*			*10.0-130*		*04/10/2024 01:56*	WG2263382
(S) 2,4,6-Tribromophenol	*84.9*			*10.0-155*		*04/10/2024 01:56*	WG2263382
(S) p-Terphenyl-d14	*58.4*			*10.0-128*		*04/10/2024 01:56*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	484		10.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	92.8	J6	0.379	1.00	1	04/13/2024 06:11	WG2266241
Fluoride	1.02		0.0640	0.150	1	04/06/2024 01:53	WG2261452
Nitrate	1.81		0.0480	0.100	1	04/06/2024 01:53	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 01:53	WG2261452
Sulfate	43.5		0.594	5.00	1	04/06/2024 01:53	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/08/2024 17:28	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.188	J	0.0200	0.200	1	04/09/2024 13:07	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:22	WG2262919
Arsenic,Dissolved	0.00355		0.000180	0.00200	1	04/15/2024 18:22	WG2262919
Barium,Dissolved	0.123		0.000381	0.00200	1	04/15/2024 18:22	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:22	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:22	WG2262919
Copper,Dissolved	0.00189	J	0.00151	0.00500	1	04/15/2024 18:22	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 18:22	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:22	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:22	WG2262919
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 18:22	WG2262919
Molybdenum,Dissolved	0.00295	J	0.000348	0.00500	1	04/15/2024 18:22	WG2262919
Nickel,Dissolved	U		0.000816	0.00200	1	04/15/2024 18:22	WG2262919
Selenium,Dissolved	0.00168	J	0.000300	0.00200	1	04/15/2024 18:22	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:22	WG2262919
Uranium,Dissolved	0.00459	J	0.0000700	0.0200	1	04/15/2024 18:22	WG2262919
Zinc,Dissolved	U		0.00302	0.0250	1	04/15/2024 18:22	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 21:02	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 21:02	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 21:02	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 21:02	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 21:02	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 21:02	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 21:02	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 21:02	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 21:02	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 21:02	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 21:02	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 21:02	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 21:02	WG2262002
Chloroform	U		0.000111	0.00500	1	04/07/2024 21:02	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 21:02	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 21:02	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 21:02	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 21:02	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 21:02	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 21:02	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 21:02	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 21:02	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 21:02	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 21:02	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 21:02	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 21:02	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 21:02	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 21:02	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 21:02	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 21:02	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 21:02	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 21:02	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 21:02	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 21:02	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 21:02	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 21:02	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 21:02	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 21:02	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 21:02	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 21:02	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 21:02	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 21:02	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 21:02	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 21:02	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 21:02	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 21:02	WG2262002
(S) Toluene-d8	*91.3*			*80.0-120*		*04/07/2024 21:02*	WG2262002
(S) 4-Bromofluorobenzene	*99.5*			*77.0-126*		*04/07/2024 21:02*	WG2262002
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*04/07/2024 21:02*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 02:17	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 02:17	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 02:17	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 02:17	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 02:17	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 02:17	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 02:17	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 02:17	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 02:17	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 02:17	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 02:17	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 02:17	WG2263382

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 02:17	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 02:17	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 02:17	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 02:17	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 02:17	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 02:17	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 02:17	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 02:17	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 02:17	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 02:17	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 02:17	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 02:17	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 02:17	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 02:17	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 02:17	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 02:17	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 02:17	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 02:17	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 02:17	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 02:17	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 02:17	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 02:17	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 02:17	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 02:17	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 02:17	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 02:17	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 02:17	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 02:17	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 02:17	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 02:17	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 02:17	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 02:17	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 02:17	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 02:17	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 02:17	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 02:17	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 02:17	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 02:17	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 02:17	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 02:17	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 02:17	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 02:17	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 02:17	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 02:17	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 02:17	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 02:17	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 02:17	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 02:17	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 02:17	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 02:17	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 02:17	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 02:17	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 02:17	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 02:17	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 02:17	WG2263382
(S) 2-Fluorophenol	*46.6*			*10.0-120*		*04/10/2024 02:17*	WG2263382

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*30.5*			*10.0-120*		*04/10/2024 02:17*	WG2263382
(S) Nitrobenzene-d5	*63.3*			*10.0-127*		*04/10/2024 02:17*	WG2263382
(S) 2-Fluorobiphenyl	*75.0*			*10.0-130*		*04/10/2024 02:17*	WG2263382
(S) 2,4,6-Tribromophenol	*76.0*			*10.0-155*		*04/10/2024 02:17*	WG2263382
(S) p-Terphenyl-d14	*80.0*			*10.0-128*		*04/10/2024 02:17*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1040		20.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	366		1.90	5.00	5	04/06/2024 07:47	WG2261452
Fluoride	0.713		0.0640	0.150	1	04/06/2024 02:10	WG2261452
Nitrate	2.78		0.0480	0.100	1	04/06/2024 02:10	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 02:10	WG2261452
Sulfate	88.7		0.594	5.00	1	04/06/2024 02:10	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/08/2024 17:35	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.187	J	0.0200	0.200	1	04/09/2024 13:10	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:25	WG2262919
Arsenic,Dissolved	0.00340		0.000180	0.00200	1	04/15/2024 18:25	WG2262919
Barium,Dissolved	0.108		0.000381	0.00200	1	04/15/2024 18:25	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:25	WG2262919
Chromium,Dissolved	0.0355		0.00124	0.00200	1	04/15/2024 18:25	WG2262919
Copper,Dissolved	0.00348	J	0.00151	0.00500	1	04/15/2024 18:25	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 18:25	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:25	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:25	WG2262919
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 18:25	WG2262919
Molybdenum,Dissolved	0.00224	J	0.000348	0.00500	1	04/15/2024 18:25	WG2262919
Nickel,Dissolved	0.00143	J	0.000816	0.00200	1	04/15/2024 18:25	WG2262919
Selenium,Dissolved	0.00254		0.000300	0.00200	1	04/15/2024 18:25	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:25	WG2262919
Uranium,Dissolved	0.00214	J	0.0000700	0.0200	1	04/15/2024 18:25	WG2262919
Zinc,Dissolved	0.0310		0.00302	0.0250	1	04/15/2024 18:25	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 21:21	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 21:21	WG2262002
Bromodichloromethane	0.00495		0.000136	0.00100	1	04/07/2024 21:21	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 21:21	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 21:21	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 21:21	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 21:21	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 21:21	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 21:21	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 21:21	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 21:21	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 21:21	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 21:21	WG2262002
Chloroform	0.0204		0.000111	0.00500	1	04/07/2024 21:21	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 21:21	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 21:21	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 21:21	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 21:21	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 21:21	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 21:21	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 21:21	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 21:21	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 21:21	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 21:21	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 21:21	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 21:21	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 21:21	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 21:21	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 21:21	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 21:21	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 21:21	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 21:21	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 21:21	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 21:21	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 21:21	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 21:21	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 21:21	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 21:21	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 21:21	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 21:21	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 21:21	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 21:21	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 21:21	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 21:21	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 21:21	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 21:21	WG2262002
(S) Toluene-d8	*93.3*			*80.0-120*		*04/07/2024 21:21*	WG2262002
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/07/2024 21:21*	WG2262002
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*04/07/2024 21:21*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 02:38	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 02:38	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 02:38	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 02:38	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 02:38	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 02:38	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 02:38	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 02:38	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 02:38	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 02:38	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 02:38	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 02:38	WG2263382

Received by OCD: 4/15/2025 7:55:48 AM

MW-15R

SAMPLE RESULTS - 12

Collected date/time: 04/04/24 08:40

L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 02:38	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 02:38	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 02:38	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 02:38	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 02:38	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 02:38	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 02:38	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 02:38	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 02:38	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 02:38	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 02:38	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 02:38	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 02:38	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 02:38	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 02:38	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 02:38	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 02:38	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 02:38	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 02:38	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 02:38	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 02:38	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 02:38	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 02:38	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 02:38	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 02:38	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 02:38	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 02:38	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 02:38	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 02:38	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 02:38	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 02:38	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 02:38	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 02:38	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 02:38	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 02:38	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 02:38	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 02:38	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 02:38	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 02:38	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 02:38	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 02:38	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 02:38	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 02:38	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 02:38	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 02:38	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 02:38	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 02:38	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 02:38	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 02:38	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 02:38	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 02:38	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 02:38	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 02:38	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 02:38	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 02:38	WG2263382
(S) 2-Fluorophenol	*53.0*			*10.0-120*		*04/10/2024 02:38*	WG2263382

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

Released to Imaging: 5/2/2025 9:53:52 AM

MW-15R
Collected date/time: 04/04/24 08:40
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) Phenol-d5	*34.2*			*10.0-120*		*04/10/2024 02:38*	WG2263382
(S) Nitrobenzene-d5	*67.4*			*10.0-127*		*04/10/2024 02:38*	WG2263382
(S) 2-Fluorobiphenyl	*80.0*			*10.0-130*		*04/10/2024 02:38*	WG2263382
(S) 2,4,6-Tribromophenol	*82.5*			*10.0-155*		*04/10/2024 02:38*	WG2263382
(S) p-Terphenyl-d14	*83.7*			*10.0-128*		*04/10/2024 02:38*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	350		10.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	36.4		0.379	1.00	1	04/06/2024 02:27	WG2261452
Fluoride	1.00		0.0640	0.150	1	04/06/2024 02:27	WG2261452
Nitrate	2.08		0.0480	0.100	1	04/06/2024 02:27	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 02:27	WG2261452
Sulfate	60.5		0.594	5.00	1	04/06/2024 02:27	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/08/2024 17:37	WG2261622

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.160	J	0.0200	0.200	1	04/09/2024 13:13	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:29	WG2262919
Arsenic,Dissolved	0.00572		0.000180	0.00200	1	04/15/2024 18:29	WG2262919
Barium,Dissolved	0.0899		0.000381	0.00200	1	04/15/2024 18:29	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:29	WG2262919
Chromium,Dissolved	0.00144	J	0.00124	0.00200	1	04/15/2024 18:29	WG2262919
Copper,Dissolved	0.00869		0.00151	0.00500	1	04/15/2024 18:29	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 18:29	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:29	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:29	WG2262919
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 18:29	WG2262919
Molybdenum,Dissolved	0.00326	J	0.000348	0.00500	1	04/15/2024 18:29	WG2262919
Nickel,Dissolved	0.00151	J	0.000816	0.00200	1	04/15/2024 18:29	WG2262919
Selenium,Dissolved	0.00196	J	0.000300	0.00200	1	04/15/2024 18:29	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:29	WG2262919
Uranium,Dissolved	0.00155	J	0.0000700	0.0200	1	04/15/2024 18:29	WG2262919
Zinc,Dissolved	0.0448		0.00302	0.0250	1	04/15/2024 18:29	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 21:40	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 21:40	WG2262002
Bromodichloromethane	0.000159	J	0.000136	0.00100	1	04/07/2024 21:40	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 21:40	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 21:40	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 21:40	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 21:40	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 21:40	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 21:40	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 21:40	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 21:40	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 21:40	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 21:40	WG2262002
Chloroform	0.00144	J	0.000111	0.00500	1	04/07/2024 21:40	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 21:40	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 21:40	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 21:40	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 21:40	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 21:40	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 21:40	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 21:40	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 21:40	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 21:40	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 21:40	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 21:40	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 21:40	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 21:40	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 21:40	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 21:40	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 21:40	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 21:40	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 21:40	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 21:40	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 21:40	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 21:40	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 21:40	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 21:40	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 21:40	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 21:40	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 21:40	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 21:40	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 21:40	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 21:40	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 21:40	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 21:40	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 21:40	WG2262002
(S) Toluene-d8	*92.1*			*80.0-120*		*04/07/2024 21:40*	WG2262002
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/07/2024 21:40*	WG2262002
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*04/07/2024 21:40*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/10/2024 03:00	WG2263382
Acenaphthylene	U		0.0000921	0.00100	1	04/10/2024 03:00	WG2263382
Acetophenone	U		0.000208	0.0100	1	04/10/2024 03:00	WG2263382
Anthracene	U		0.0000804	0.00100	1	04/10/2024 03:00	WG2263382
Atrazine	U		0.000255	0.0100	1	04/10/2024 03:00	WG2263382
Benzo(a)anthracene	U		0.000199	0.00100	1	04/10/2024 03:00	WG2263382
Benzaldehyde	U	J4	0.00169	0.0100	1	04/10/2024 03:00	WG2263382
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/10/2024 03:00	WG2263382
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/10/2024 03:00	WG2263382
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/10/2024 03:00	WG2263382
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/10/2024 03:00	WG2263382
Biphenyl	U		0.000790	0.0100	1	04/10/2024 03:00	WG2263382

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/10/2024 03:00	WG2263382
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/10/2024 03:00	WG2263382
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/10/2024 03:00	WG2263382
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/10/2024 03:00	WG2263382
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/10/2024 03:00	WG2263382
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/10/2024 03:00	WG2263382
Caprolactam	U		0.000309	0.0100	1	04/10/2024 03:00	WG2263382
Carbazole	U		0.000111	0.0100	1	04/10/2024 03:00	WG2263382
Chrysene	U		0.000130	0.00100	1	04/10/2024 03:00	WG2263382
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/10/2024 03:00	WG2263382
Dibenzofuran	U		0.0000970	0.0100	1	04/10/2024 03:00	WG2263382
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/10/2024 03:00	WG2263382
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/10/2024 03:00	WG2263382
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/10/2024 03:00	WG2263382
Fluoranthene	U		0.000102	0.00100	1	04/10/2024 03:00	WG2263382
Fluorene	U		0.0000844	0.00100	1	04/10/2024 03:00	WG2263382
Hexachlorobenzene	U		0.0000755	0.00100	1	04/10/2024 03:00	WG2263382
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/10/2024 03:00	WG2263382
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/10/2024 03:00	WG2263382
Hexachloroethane	U		0.000127	0.0100	1	04/10/2024 03:00	WG2263382
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/10/2024 03:00	WG2263382
Isophorone	U		0.000143	0.0100	1	04/10/2024 03:00	WG2263382
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/10/2024 03:00	WG2263382
2-Methylnaphthalene	U		0.000117	0.00100	1	04/10/2024 03:00	WG2263382
Naphthalene	U		0.000159	0.00100	1	04/10/2024 03:00	WG2263382
Nitrobenzene	U		0.000297	0.0100	1	04/10/2024 03:00	WG2263382
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/10/2024 03:00	WG2263382
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/10/2024 03:00	WG2263382
Phenanthrene	U		0.000112	0.00100	1	04/10/2024 03:00	WG2263382
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/10/2024 03:00	WG2263382
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/10/2024 03:00	WG2263382
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/10/2024 03:00	WG2263382
Diethyl phthalate	U		0.000287	0.00300	1	04/10/2024 03:00	WG2263382
Dimethyl phthalate	U		0.000260	0.00300	1	04/10/2024 03:00	WG2263382
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/10/2024 03:00	WG2263382
Pyrene	U		0.000107	0.00100	1	04/10/2024 03:00	WG2263382
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/10/2024 03:00	WG2263382
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/10/2024 03:00	WG2263382
2-Chlorophenol	U		0.000133	0.0100	1	04/10/2024 03:00	WG2263382
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/10/2024 03:00	WG2263382
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/10/2024 03:00	WG2263382
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/10/2024 03:00	WG2263382
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/10/2024 03:00	WG2263382
2-Nitrophenol	U		0.000117	0.0100	1	04/10/2024 03:00	WG2263382
2-Nitroaniline	U		0.000102	0.0100	1	04/10/2024 03:00	WG2263382
2-Methylphenol	U		0.0000929	0.0100	1	04/10/2024 03:00	WG2263382
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/10/2024 03:00	WG2263382
3-Nitroaniline	U		0.0000869	0.0100	1	04/10/2024 03:00	WG2263382
4-Chloroaniline	U		0.000234	0.0100	1	04/10/2024 03:00	WG2263382
4-Nitroaniline	U		0.0000910	0.0100	1	04/10/2024 03:00	WG2263382
4-Nitrophenol	U		0.000143	0.0100	1	04/10/2024 03:00	WG2263382
Pentachlorophenol	U		0.000313	0.0100	1	04/10/2024 03:00	WG2263382
Phenol	U		0.00433	0.0100	1	04/10/2024 03:00	WG2263382
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/10/2024 03:00	WG2263382
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/10/2024 03:00	WG2263382
(S) 2-Fluorophenol	*46.2*			*10.0-120*		*04/10/2024 03:00*	WG2263382

MW-10R
Collected date/time: 04/04/24 10:30
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) Phenol-d5	*29.5*			*10.0-120*		*04/10/2024 03:00*	WG2263382
(S) Nitrobenzene-d5	*60.5*			*10.0-127*		*04/10/2024 03:00*	WG2263382
(S) 2-Fluorobiphenyl	*70.9*			*10.0-130*		*04/10/2024 03:00*	WG2263382
(S) 2,4,6-Tribromophenol	*69.5*			*10.0-155*		*04/10/2024 03:00*	WG2263382
(S) p-Terphenyl-d14	*73.9*			*10.0-128*		*04/10/2024 03:00*	WG2263382

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	427		10.0	1	04/11/2024 12:25	WG2264361

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	97.8		0.379	1.00	1	04/06/2024 04:08	WG2261452
Fluoride	0.847		0.0640	0.150	1	04/06/2024 04:08	WG2261452
Nitrate	1.69		0.0480	0.100	1	04/06/2024 04:08	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 04:08	WG2261452
Sulfate	35.3		0.594	5.00	1	04/06/2024 04:08	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 09:53	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.145	J	0.0200	0.200	1	04/09/2024 13:15	WG2262635

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:32	WG2262919
Arsenic,Dissolved	0.00576		0.000180	0.00200	1	04/15/2024 18:32	WG2262919
Barium,Dissolved	0.0924		0.000381	0.00200	1	04/15/2024 18:32	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:32	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:32	WG2262919
Copper,Dissolved	U		0.00151	0.00500	1	04/15/2024 18:32	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 18:32	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:32	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:32	WG2262919
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 18:32	WG2262919
Molybdenum,Dissolved	0.00333	J	0.000348	0.00500	1	04/15/2024 18:32	WG2262919
Nickel,Dissolved	U		0.000816	0.00200	1	04/15/2024 18:32	WG2262919
Selenium,Dissolved	0.00166	J	0.000300	0.00200	1	04/15/2024 18:32	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:32	WG2262919
Uranium,Dissolved	0.00143	J	0.0000700	0.0200	1	04/15/2024 18:32	WG2262919
Zinc,Dissolved	0.0216	J	0.00302	0.0250	1	04/15/2024 18:32	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 21:59	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 21:59	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 21:59	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 21:59	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 21:59	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 21:59	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 21:59	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 21:59	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 21:59	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 21:59	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 21:59	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 21:59	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 21:59	WG2262002
Chloroform	U		0.000111	0.00500	1	04/07/2024 21:59	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 21:59	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 21:59	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 21:59	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 21:59	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 21:59	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 21:59	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 21:59	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 21:59	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 21:59	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 21:59	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 21:59	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 21:59	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 21:59	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 21:59	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 21:59	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 21:59	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 21:59	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 21:59	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 21:59	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 21:59	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 21:59	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 21:59	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 21:59	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 21:59	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 21:59	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 21:59	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 21:59	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 21:59	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 21:59	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 21:59	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 21:59	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 21:59	WG2262002
(S) Toluene-d8	*91.3*			*80.0-120*		*04/07/2024 21:59*	WG2262002
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/07/2024 21:59*	WG2262002
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*04/07/2024 21:59*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 01:41	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 01:41	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 01:41	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 01:41	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 01:41	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 01:41	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 01:41	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 01:41	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 01:41	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 01:41	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 01:41	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 01:41	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 01:41	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 01:41	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 01:41	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 01:41	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 01:41	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 01:41	WG2263770
Caprolactam	0.00174	J	0.000309	0.0100	1	04/16/2024 01:41	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 01:41	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 01:41	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 01:41	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 01:41	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 01:41	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 01:41	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 01:41	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 01:41	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 01:41	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 01:41	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 01:41	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 01:41	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 01:41	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 01:41	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 01:41	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 01:41	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 01:41	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 01:41	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 01:41	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 01:41	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 01:41	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 01:41	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 01:41	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 01:41	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 01:41	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 01:41	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 01:41	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 01:41	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 01:41	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 01:41	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 01:41	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 01:41	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 01:41	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 01:41	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 01:41	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 01:41	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 01:41	WG2263770
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 01:41	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 01:41	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 01:41	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 01:41	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 01:41	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 01:41	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 01:41	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 01:41	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 01:41	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 01:41	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 01:41	WG2263770
(S) 2-Fluorophenol	*36.6*			*10.0-120*		*04/16/2024 01:41*	WG2263770

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

MW-10R
Collected date/time: 04/04/24 09:40
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) Phenol-d5	*22.1*			*10.0-120*		*04/16/2024 01:41*	WG2263770
(S) Nitrobenzene-d5	*61.3*			*10.0-127*		*04/16/2024 01:41*	WG2263770
(S) 2-Fluorobiphenyl	*71.0*			*10.0-130*		*04/16/2024 01:41*	WG2263770
(S) 2,4,6-Tribromophenol	*81.6*			*10.0-155*		*04/16/2024 01:41*	WG2263770
(S) p-Terphenyl-d14	*78.2*			*10.0-128*		*04/16/2024 01:41*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1010		20.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	349		1.90	5.00	5	04/06/2024 08:04	WG2261452
Fluoride	0.559		0.0640	0.150	1	04/06/2024 04:25	WG2261452
Nitrate	1.97		0.0480	0.100	1	04/06/2024 04:25	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 04:25	WG2261452
Sulfate	83.1		0.594	5.00	1	04/06/2024 04:25	WG2261452

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/09/2024 09:55	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.178	J	0.0200	0.200	1	04/09/2024 09:32	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:35	WG2262919
Arsenic,Dissolved	0.00341		0.000180	0.00200	1	04/15/2024 18:35	WG2262919
Barium,Dissolved	0.157		0.000381	0.00200	1	04/15/2024 18:35	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:35	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:35	WG2262919
Copper,Dissolved	0.00254	J	0.00151	0.00500	1	04/15/2024 18:35	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 18:35	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:35	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:35	WG2262919
Manganese,Dissolved	0.000783	J	0.000704	0.00500	1	04/15/2024 18:35	WG2262919
Molybdenum,Dissolved	0.00213	J	0.000348	0.00500	1	04/15/2024 18:35	WG2262919
Nickel,Dissolved	0.00228		0.000816	0.00200	1	04/15/2024 18:35	WG2262919
Selenium,Dissolved	0.00122	J	0.000300	0.00200	1	04/15/2024 18:35	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:35	WG2262919
Uranium,Dissolved	0.00282	J	0.0000700	0.0200	1	04/15/2024 18:35	WG2262919
Zinc,Dissolved	0.0500		0.00302	0.0250	1	04/15/2024 18:35	WG2262919

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/07/2024 22:18	WG2262002
Benzene	U		0.0000941	0.00100	1	04/07/2024 22:18	WG2262002
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 22:18	WG2262002
Bromoform	U		0.000129	0.00100	1	04/07/2024 22:18	WG2262002
Bromomethane	U		0.000605	0.00500	1	04/07/2024 22:18	WG2262002
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 22:18	WG2262002
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 22:18	WG2262002
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 22:18	WG2262002
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 22:18	WG2262002

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 22:18	WG2262002
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 22:18	WG2262002
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 22:18	WG2262002
Chloroethane	U		0.000192	0.00500	1	04/07/2024 22:18	WG2262002
Chloroform	U		0.000111	0.00500	1	04/07/2024 22:18	WG2262002
Chloromethane	U		0.000960	0.00250	1	04/07/2024 22:18	WG2262002
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 22:18	WG2262002
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 22:18	WG2262002
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 22:18	WG2262002
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 22:18	WG2262002
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 22:18	WG2262002
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 22:18	WG2262002
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 22:18	WG2262002
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 22:18	WG2262002
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 22:18	WG2262002
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 22:18	WG2262002
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 22:18	WG2262002
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 22:18	WG2262002
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 22:18	WG2262002
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 22:18	WG2262002
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 22:18	WG2262002
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 22:18	WG2262002
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 22:18	WG2262002
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 22:18	WG2262002
Naphthalene	U		0.00100	0.00500	1	04/07/2024 22:18	WG2262002
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 22:18	WG2262002
Styrene	U		0.000118	0.00100	1	04/07/2024 22:18	WG2262002
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 22:18	WG2262002
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 22:18	WG2262002
Toluene	U		0.000278	0.00100	1	04/07/2024 22:18	WG2262002
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 22:18	WG2262002
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 22:18	WG2262002
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 22:18	WG2262002
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 22:18	WG2262002
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 22:18	WG2262002
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 22:18	WG2262002
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 22:18	WG2262002
(S) Toluene-d8	*93.0*			*80.0-120*		*04/07/2024 22:18*	WG2262002
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/07/2024 22:18*	WG2262002
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*04/07/2024 22:18*	WG2262002

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000930	0.00105	1.05	04/16/2024 02:03	WG2263770
Acenaphthylene	U		0.0000967	0.00105	1.05	04/16/2024 02:03	WG2263770
Acetophenone	U		0.000218	0.0105	1.05	04/16/2024 02:03	WG2263770
Anthracene	U		0.0000844	0.00105	1.05	04/16/2024 02:03	WG2263770
Atrazine	U		0.000268	0.0105	1.05	04/16/2024 02:03	WG2263770
Benzo(a)anthracene	U		0.000209	0.00105	1.05	04/16/2024 02:03	WG2263770
Benzaldehyde	U	C6 J4	0.00177	0.0105	1.05	04/16/2024 02:03	WG2263770
Benzo(b)fluoranthene	U		0.000136	0.00105	1.05	04/16/2024 02:03	WG2263770
Benzo(k)fluoranthene	U		0.000126	0.00105	1.05	04/16/2024 02:03	WG2263770
Benzo(g,h,i)perylene	U		0.000127	0.00105	1.05	04/16/2024 02:03	WG2263770
Benzo(a)pyrene	U		0.0000400	0.000210	1.05	04/16/2024 02:03	WG2263770
Biphenyl	U		0.000829	0.0105	1.05	04/16/2024 02:03	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000122	0.0105	1.05	04/16/2024 02:03	WG2263770
Bis(2-chloroethyl)ether	U		0.000144	0.0105	1.05	04/16/2024 02:03	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000221	0.0105	1.05	04/16/2024 02:03	WG2263770
4-Bromophenyl-phenylether	U		0.0000921	0.0105	1.05	04/16/2024 02:03	WG2263770
2-Chloronaphthalene	U		0.0000680	0.00105	1.05	04/16/2024 02:03	WG2263770
4-Chlorophenyl-phenylether	U		0.0000972	0.0105	1.05	04/16/2024 02:03	WG2263770
Caprolactam	U		0.000324	0.0105	1.05	04/16/2024 02:03	WG2263770
Carbazole	U		0.000117	0.0105	1.05	04/16/2024 02:03	WG2263770
Chrysene	U		0.000136	0.00105	1.05	04/16/2024 02:03	WG2263770
Dibenz(a,h)anthracene	U		0.0000676	0.000210	1.05	04/16/2024 02:03	WG2263770
Dibenzofuran	U		0.000102	0.0105	1.05	04/16/2024 02:03	WG2263770
3,3-Dichlorobenzidine	U		0.000223	0.0105	1.05	04/16/2024 02:03	WG2263770
2,4-Dinitrotoluene	U		0.000103	0.0105	1.05	04/16/2024 02:03	WG2263770
2,6-Dinitrotoluene	U		0.000263	0.0105	1.05	04/16/2024 02:03	WG2263770
Fluoranthene	U		0.000107	0.00105	1.05	04/16/2024 02:03	WG2263770
Fluorene	U		0.0000886	0.00105	1.05	04/16/2024 02:03	WG2263770
Hexachlorobenzene	U		0.0000793	0.00105	1.05	04/16/2024 02:03	WG2263770
Hexachloro-1,3-butadiene	U		0.000102	0.0105	1.05	04/16/2024 02:03	WG2263770
Hexachlorocyclopentadiene	U		0.0000628	0.0105	1.05	04/16/2024 02:03	WG2263770
Hexachloroethane	U		0.000133	0.0105	1.05	04/16/2024 02:03	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000293	0.00105	1.05	04/16/2024 02:03	WG2263770
Isophorone	U		0.000150	0.0105	1.05	04/16/2024 02:03	WG2263770
1-Methylnaphthalene	U		0.0000829	0.00105	1.05	04/16/2024 02:03	WG2263770
2-Methylnaphthalene	U		0.000123	0.00105	1.05	04/16/2024 02:03	WG2263770
Naphthalene	0.000335	J	0.000167	0.00105	1.05	04/16/2024 02:03	WG2263770
Nitrobenzene	U		0.000312	0.0105	1.05	04/16/2024 02:03	WG2263770
n-Nitrosodiphenylamine	U		0.00249	0.0105	1.05	04/16/2024 02:03	WG2263770
n-Nitrosodi-n-propylamine	U		0.000274	0.0105	1.05	04/16/2024 02:03	WG2263770
Phenanthrene	U		0.000118	0.00105	1.05	04/16/2024 02:03	WG2263770
Benzylbutyl phthalate	U		0.000803	0.00315	1.05	04/16/2024 02:03	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000940	0.00315	1.05	04/16/2024 02:03	WG2263770
Di-n-butyl phthalate	U		0.000476	0.00315	1.05	04/16/2024 02:03	WG2263770
Diethyl phthalate	U		0.000301	0.00315	1.05	04/16/2024 02:03	WG2263770
Dimethyl phthalate	U		0.000273	0.00315	1.05	04/16/2024 02:03	WG2263770
Di-n-octyl phthalate	U		0.000979	0.00315	1.05	04/16/2024 02:03	WG2263770
Pyrene	U		0.000112	0.00105	1.05	04/16/2024 02:03	WG2263770
1,2,4-Trichlorobenzene	U		0.0000733	0.0105	1.05	04/16/2024 02:03	WG2263770
4-Chloro-3-methylphenol	U		0.000138	0.0105	1.05	04/16/2024 02:03	WG2263770
2-Chlorophenol	U		0.000140	0.0105	1.05	04/16/2024 02:03	WG2263770
2,4-Dichlorophenol	U		0.000107	0.0105	1.05	04/16/2024 02:03	WG2263770
2,4-Dimethylphenol	U		0.0000668	0.0105	1.05	04/16/2024 02:03	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00118	0.0105	1.05	04/16/2024 02:03	WG2263770
2,4-Dinitrophenol	U		0.00623	0.0105	1.05	04/16/2024 02:03	WG2263770
2-Nitrophenol	U		0.000123	0.0105	1.05	04/16/2024 02:03	WG2263770
2-Nitroaniline	U		0.000107	0.0105	1.05	04/16/2024 02:03	WG2263770
2-Methylphenol	U		0.0000975	0.0105	1.05	04/16/2024 02:03	WG2263770
3&4-Methyl Phenol	U		0.000176	0.0105	1.05	04/16/2024 02:03	WG2263770
3-Nitroaniline	U		0.0000912	0.0105	1.05	04/16/2024 02:03	WG2263770
4-Chloroaniline	U		0.000246	0.0105	1.05	04/16/2024 02:03	WG2263770
4-Nitroaniline	U		0.0000956	0.0105	1.05	04/16/2024 02:03	WG2263770
4-Nitrophenol	U		0.000150	0.0105	1.05	04/16/2024 02:03	WG2263770
Pentachlorophenol	U		0.000329	0.0105	1.05	04/16/2024 02:03	WG2263770
Phenol	U		0.00455	0.0105	1.05	04/16/2024 02:03	WG2263770
2,4,5-Trichlorophenol	U		0.000114	0.0105	1.05	04/16/2024 02:03	WG2263770
2,4,6-Trichlorophenol	U		0.000105	0.0105	1.05	04/16/2024 02:03	WG2263770
(S) 2-Fluorophenol	*35.5*			*10.0-120*		*04/16/2024 02:03*	WG2263770

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

MW-19R
Collected date/time: 04/04/24 09:05
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*21.1*			*10.0-120*		*04/16/2024 02:03*	WG2263770
(S) Nitrobenzene-d5	*51.9*			*10.0-127*		*04/16/2024 02:03*	WG2263770
(S) 2-Fluorobiphenyl	*59.0*			*10.0-130*		*04/16/2024 02:03*	WG2263770
(S) 2,4,6-Tribromophenol	*66.7*			*10.0-155*		*04/16/2024 02:03*	WG2263770
(S) p-Terphenyl-d14	*66.6*			*10.0-128*		*04/16/2024 02:03*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	625		10.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	124		0.379	1.00	1	04/13/2024 06:49	WG2266241
Fluoride	0.817		0.0640	0.150	1	04/06/2024 04:42	WG2261452
Nitrate	9.50		0.0480	0.100	1	04/06/2024 04:42	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 04:42	WG2261452
Sulfate	76.1		0.594	5.00	1	04/06/2024 04:42	WG2261452

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/09/2024 09:57	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.188	J	0.0200	0.200	1	04/09/2024 09:36	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:39	WG2262919
Arsenic,Dissolved	0.00404		0.000180	0.00200	1	04/15/2024 18:39	WG2262919
Barium,Dissolved	0.124		0.000381	0.00200	1	04/15/2024 18:39	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:39	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:39	WG2262919
Copper,Dissolved	0.00292	J	0.00151	0.00500	1	04/15/2024 18:39	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 18:39	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:39	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:39	WG2262919
Manganese,Dissolved	0.000953	J	0.000704	0.00500	1	04/15/2024 18:39	WG2262919
Molybdenum,Dissolved	0.00391	J	0.000348	0.00500	1	04/15/2024 18:39	WG2262919
Nickel,Dissolved	0.00136	J	0.000816	0.00200	1	04/15/2024 18:39	WG2262919
Selenium,Dissolved	0.00228		0.000300	0.00200	1	04/15/2024 18:39	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:39	WG2262919
Uranium,Dissolved	0.00303	J	0.0000700	0.0200	1	04/15/2024 18:39	WG2262919
Zinc,Dissolved	0.0555		0.00302	0.0250	1	04/15/2024 18:39	WG2262919

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/06/2024 23:18	WG2262003
Benzene	U		0.0000941	0.00100	1	04/06/2024 23:18	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/06/2024 23:18	WG2262003
Bromoform	U		0.000129	0.00100	1	04/06/2024 23:18	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/06/2024 23:18	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/06/2024 23:18	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/06/2024 23:18	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/06/2024 23:18	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/06/2024 23:18	WG2262003

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/06/2024 23:18	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/06/2024 23:18	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/06/2024 23:18	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/06/2024 23:18	WG2262003
Chloroform	U		0.000111	0.00500	1	04/06/2024 23:18	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/06/2024 23:18	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/06/2024 23:18	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/06/2024 23:18	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/06/2024 23:18	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/06/2024 23:18	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/06/2024 23:18	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/06/2024 23:18	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/06/2024 23:18	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/06/2024 23:18	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/06/2024 23:18	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/06/2024 23:18	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/06/2024 23:18	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/06/2024 23:18	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/06/2024 23:18	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/06/2024 23:18	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/06/2024 23:18	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/06/2024 23:18	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/06/2024 23:18	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/06/2024 23:18	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/06/2024 23:18	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/06/2024 23:18	WG2262003
Styrene	U		0.000118	0.00100	1	04/06/2024 23:18	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/06/2024 23:18	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/06/2024 23:18	WG2262003
Toluene	U		0.000278	0.00100	1	04/06/2024 23:18	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/06/2024 23:18	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/06/2024 23:18	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/06/2024 23:18	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/06/2024 23:18	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/06/2024 23:18	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/06/2024 23:18	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/06/2024 23:18	WG2262003
(S) Toluene-d8	*104*			*80.0-120*		*04/06/2024 23:18*	WG2262003
(S) 4-Bromofluorobenzene	*98.7*			*77.0-126*		*04/06/2024 23:18*	WG2262003
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*04/06/2024 23:18*	WG2262003

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000930	0.00105	1.05	04/16/2024 02:24	WG2263770
Acenaphthylene	U		0.0000967	0.00105	1.05	04/16/2024 02:24	WG2263770
Acetophenone	U		0.000218	0.0105	1.05	04/16/2024 02:24	WG2263770
Anthracene	U		0.0000844	0.00105	1.05	04/16/2024 02:24	WG2263770
Atrazine	U		0.000268	0.0105	1.05	04/16/2024 02:24	WG2263770
Benzo(a)anthracene	U		0.000209	0.00105	1.05	04/16/2024 02:24	WG2263770
Benzaldehyde	U	C6 J4	0.00177	0.0105	1.05	04/16/2024 02:24	WG2263770
Benzo(b)fluoranthene	U		0.000136	0.00105	1.05	04/16/2024 02:24	WG2263770
Benzo(k)fluoranthene	U		0.000126	0.00105	1.05	04/16/2024 02:24	WG2263770
Benzo(g,h,i)perylene	U		0.000127	0.00105	1.05	04/16/2024 02:24	WG2263770
Benzo(a)pyrene	U		0.0000400	0.000210	1.05	04/16/2024 02:24	WG2263770
Biphenyl	U		0.000829	0.0105	1.05	04/16/2024 02:24	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Bis(2-chlorethoxy)methane	U		0.000122	0.0105	1.05	04/16/2024 02:24	WG2263770
Bis(2-chloroethyl)ether	U		0.000144	0.0105	1.05	04/16/2024 02:24	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000221	0.0105	1.05	04/16/2024 02:24	WG2263770
4-Bromophenyl-phenylether	U		0.0000921	0.0105	1.05	04/16/2024 02:24	WG2263770
2-Chloronaphthalene	U		0.0000680	0.00105	1.05	04/16/2024 02:24	WG2263770
4-Chlorophenyl-phenylether	U		0.0000972	0.0105	1.05	04/16/2024 02:24	WG2263770
Caprolactam	U		0.000324	0.0105	1.05	04/16/2024 02:24	WG2263770
Carbazole	U		0.000117	0.0105	1.05	04/16/2024 02:24	WG2263770
Chrysene	U		0.000136	0.00105	1.05	04/16/2024 02:24	WG2263770
Dibenz(a,h)anthracene	U		0.0000676	0.000210	1.05	04/16/2024 02:24	WG2263770
Dibenzofuran	U		0.000102	0.0105	1.05	04/16/2024 02:24	WG2263770
3,3-Dichlorobenzidine	U		0.000223	0.0105	1.05	04/16/2024 02:24	WG2263770
2,4-Dinitrotoluene	U		0.000103	0.0105	1.05	04/16/2024 02:24	WG2263770
2,6-Dinitrotoluene	U		0.000263	0.0105	1.05	04/16/2024 02:24	WG2263770
Fluoranthene	U		0.000107	0.00105	1.05	04/16/2024 02:24	WG2263770
Fluorene	U		0.0000886	0.00105	1.05	04/16/2024 02:24	WG2263770
Hexachlorobenzene	U		0.0000793	0.00105	1.05	04/16/2024 02:24	WG2263770
Hexachloro-1,3-butadiene	U		0.000102	0.0105	1.05	04/16/2024 02:24	WG2263770
Hexachlorocyclopentadiene	U		0.0000628	0.0105	1.05	04/16/2024 02:24	WG2263770
Hexachloroethane	U		0.000133	0.0105	1.05	04/16/2024 02:24	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000293	0.00105	1.05	04/16/2024 02:24	WG2263770
Isophorone	U		0.000150	0.0105	1.05	04/16/2024 02:24	WG2263770
1-Methylnaphthalene	U		0.0000829	0.00105	1.05	04/16/2024 02:24	WG2263770
2-Methylnaphthalene	U		0.000123	0.00105	1.05	04/16/2024 02:24	WG2263770
Naphthalene	U		0.000167	0.00105	1.05	04/16/2024 02:24	WG2263770
Nitrobenzene	U		0.000312	0.0105	1.05	04/16/2024 02:24	WG2263770
n-Nitrosodiphenylamine	U		0.00249	0.0105	1.05	04/16/2024 02:24	WG2263770
n-Nitrosodi-n-propylamine	U		0.000274	0.0105	1.05	04/16/2024 02:24	WG2263770
Phenanthrene	U		0.000118	0.00105	1.05	04/16/2024 02:24	WG2263770
Benzylbutyl phthalate	U		0.000803	0.00315	1.05	04/16/2024 02:24	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000940	0.00315	1.05	04/16/2024 02:24	WG2263770
Di-n-butyl phthalate	U		0.000476	0.00315	1.05	04/16/2024 02:24	WG2263770
Diethyl phthalate	U		0.000301	0.00315	1.05	04/16/2024 02:24	WG2263770
Dimethyl phthalate	U		0.000273	0.00315	1.05	04/16/2024 02:24	WG2263770
Di-n-octyl phthalate	U		0.000979	0.00315	1.05	04/16/2024 02:24	WG2263770
Pyrene	U		0.000112	0.00105	1.05	04/16/2024 02:24	WG2263770
1,2,4-Trichlorobenzene	U		0.0000733	0.0105	1.05	04/16/2024 02:24	WG2263770
4-Chloro-3-methylphenol	U		0.000138	0.0105	1.05	04/16/2024 02:24	WG2263770
2-Chlorophenol	U		0.000140	0.0105	1.05	04/16/2024 02:24	WG2263770
2,4-Dichlorophenol	U		0.000107	0.0105	1.05	04/16/2024 02:24	WG2263770
2,4-Dimethylphenol	U		0.0000668	0.0105	1.05	04/16/2024 02:24	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00118	0.0105	1.05	04/16/2024 02:24	WG2263770
2,4-Dinitrophenol	U		0.00623	0.0105	1.05	04/16/2024 02:24	WG2263770
2-Nitrophenol	U		0.000123	0.0105	1.05	04/16/2024 02:24	WG2263770
2-Nitroaniline	U		0.000107	0.0105	1.05	04/16/2024 02:24	WG2263770
2-Methylphenol	U		0.0000975	0.0105	1.05	04/16/2024 02:24	WG2263770
3&4-Methyl Phenol	U		0.000176	0.0105	1.05	04/16/2024 02:24	WG2263770
3-Nitroaniline	U		0.0000912	0.0105	1.05	04/16/2024 02:24	WG2263770
4-Chloroaniline	U		0.000246	0.0105	1.05	04/16/2024 02:24	WG2263770
4-Nitroaniline	U		0.0000956	0.0105	1.05	04/16/2024 02:24	WG2263770
4-Nitrophenol	U		0.000150	0.0105	1.05	04/16/2024 02:24	WG2263770
Pentachlorophenol	U		0.000329	0.0105	1.05	04/16/2024 02:24	WG2263770
Phenol	U		0.00455	0.0105	1.05	04/16/2024 02:24	WG2263770
2,4,5-Trichlorophenol	U		0.000114	0.0105	1.05	04/16/2024 02:24	WG2263770
2,4,6-Trichlorophenol	U		0.000105	0.0105	1.05	04/16/2024 02:24	WG2263770
(S) 2-Fluorophenol	*40.9*			*10.0-120*		*04/16/2024 02:24*	WG2263770

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

MW-20R
Collected date/time: 04/04/24 09:50
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*24.1*			*10.0-120*		*04/16/2024 02:24*	WG2263770
(S) Nitrobenzene-d5	*59.1*			*10.0-127*		*04/16/2024 02:24*	WG2263770
(S) 2-Fluorobiphenyl	*72.2*			*10.0-130*		*04/16/2024 02:24*	WG2263770
(S) 2,4,6-Tribromophenol	*76.7*			*10.0-155*		*04/16/2024 02:24*	WG2263770
(S) p-Terphenyl-d14	*72.2*			*10.0-128*		*04/16/2024 02:24*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	719		13.3	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	174		1.90	5.00	5	04/06/2024 08:21	WG2261452
Fluoride	1.16		0.0640	0.150	1	04/06/2024 04:58	WG2261452
Nitrate	3.61		0.0480	0.100	1	04/06/2024 04:58	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 04:58	WG2261452
Sulfate	88.4		2.97	25.0	5	04/06/2024 08:21	WG2261452

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	434		10.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	70.3		0.379	1.00	1	04/06/2024 05:15	WG2261452
Fluoride	2.17		0.0640	0.150	1	04/06/2024 05:15	WG2261452
Nitrate	2.65		0.0480	0.100	1	04/06/2024 05:15	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 05:15	WG2261452
Sulfate	88.5		0.594	5.00	1	04/06/2024 05:15	WG2261452

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 09:59	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.139	J	0.0200	0.200	1	04/09/2024 09:39	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	0.0954	J	0.0185	0.100	1	04/15/2024 18:50	WG2262919
Arsenic,Dissolved	0.00571		0.000180	0.00200	1	04/15/2024 18:50	WG2262919
Barium,Dissolved	0.0797		0.000381	0.00200	1	04/15/2024 18:50	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:50	WG2262919
Chromium,Dissolved	0.00515		0.00124	0.00200	1	04/15/2024 18:50	WG2262919
Copper,Dissolved	0.00346	J	0.00151	0.00500	1	04/15/2024 18:50	WG2262919
Cobalt,Dissolved	0.0000819	J	0.0000596	0.00200	1	04/15/2024 18:50	WG2262919
Iron,Dissolved	0.0756	J	0.0281	0.100	1	04/15/2024 18:50	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:50	WG2262919
Manganese,Dissolved	0.00212	J	0.000704	0.00500	1	04/15/2024 18:50	WG2262919
Molybdenum,Dissolved	0.00233	J	0.000348	0.00500	1	04/15/2024 18:50	WG2262919
Nickel,Dissolved	0.00112	J	0.000816	0.00200	1	04/15/2024 18:50	WG2262919
Selenium,Dissolved	0.00371		0.000300	0.00200	1	04/15/2024 18:50	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:50	WG2262919
Uranium,Dissolved	0.00225	J	0.0000700	0.0200	1	04/15/2024 18:50	WG2262919
Zinc,Dissolved	0.0163	J	0.00302	0.0250	1	04/15/2024 18:50	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/06/2024 23:36	WG2262003
Benzene	U		0.0000941	0.00100	1	04/06/2024 23:36	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/06/2024 23:36	WG2262003
Bromoform	U		0.000129	0.00100	1	04/06/2024 23:36	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/06/2024 23:36	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/06/2024 23:36	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/06/2024 23:36	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/06/2024 23:36	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/06/2024 23:36	WG2262003

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/06/2024 23:36	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/06/2024 23:36	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/06/2024 23:36	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/06/2024 23:36	WG2262003
Chloroform	U		0.000111	0.00500	1	04/06/2024 23:36	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/06/2024 23:36	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/06/2024 23:36	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/06/2024 23:36	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/06/2024 23:36	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/06/2024 23:36	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/06/2024 23:36	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/06/2024 23:36	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/06/2024 23:36	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/06/2024 23:36	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/06/2024 23:36	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/06/2024 23:36	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/06/2024 23:36	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/06/2024 23:36	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/06/2024 23:36	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/06/2024 23:36	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/06/2024 23:36	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/06/2024 23:36	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/06/2024 23:36	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/06/2024 23:36	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/06/2024 23:36	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/06/2024 23:36	WG2262003
Styrene	U		0.000118	0.00100	1	04/06/2024 23:36	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/06/2024 23:36	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/06/2024 23:36	WG2262003
Toluene	U		0.000278	0.00100	1	04/06/2024 23:36	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/06/2024 23:36	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/06/2024 23:36	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/06/2024 23:36	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/06/2024 23:36	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/06/2024 23:36	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/06/2024 23:36	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/06/2024 23:36	WG2262003
(S) Toluene-d8	*101*			*80.0-120*		*04/06/2024 23:36*	WG2262003
(S) 4-Bromofluorobenzene	*98.3*			*77.0-126*		*04/06/2024 23:36*	WG2262003
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*04/06/2024 23:36*	WG2262003

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 02:46	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 02:46	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 02:46	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 02:46	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 02:46	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 02:46	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 02:46	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 02:46	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 02:46	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 02:46	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 02:46	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 02:46	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 02:46	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 02:46	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 02:46	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 02:46	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 02:46	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 02:46	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 02:46	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 02:46	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 02:46	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 02:46	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 02:46	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 02:46	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 02:46	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 02:46	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 02:46	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 02:46	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 02:46	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 02:46	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 02:46	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 02:46	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 02:46	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 02:46	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 02:46	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 02:46	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 02:46	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 02:46	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 02:46	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 02:46	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 02:46	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 02:46	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 02:46	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 02:46	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 02:46	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 02:46	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 02:46	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 02:46	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 02:46	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 02:46	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 02:46	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 02:46	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 02:46	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 02:46	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 02:46	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 02:46	WG2263770
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 02:46	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 02:46	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 02:46	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 02:46	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 02:46	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 02:46	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 02:46	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 02:46	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 02:46	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 02:46	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 02:46	WG2263770
(S) 2-Fluorophenol	*33.3*			*10.0-120*		*04/16/2024 02:46*	WG2263770

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

MW-24R
Collected date/time: 04/04/24 11:15
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) Phenol-d5	*19.9*			*10.0-120*		*04/16/2024 02:46*	WG2263770
(S) Nitrobenzene-d5	*51.9*			*10.0-127*		*04/16/2024 02:46*	WG2263770
(S) 2-Fluorobiphenyl	*60.2*			*10.0-130*		*04/16/2024 02:46*	WG2263770
(S) 2,4,6-Tribromophenol	*69.0*			*10.0-155*		*04/16/2024 02:46*	WG2263770
(S) p-Terphenyl-d14	*69.5*			*10.0-128*		*04/16/2024 02:46*	WG2263770

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	245		1.90	5.00	5	04/06/2024 08:55	WG2261452
Fluoride	0.673		0.0640	0.150	1	04/06/2024 05:32	WG2261452
Nitrate	1.30		0.0480	0.100	1	04/06/2024 05:32	WG2261452
Nitrite	U		0.0420	0.100	1	04/06/2024 05:32	WG2261452
Sulfate	112		2.97	25.0	5	04/06/2024 08:55	WG2261452

MW-3
Collected date/time: 04/04/24 09:25
L1722760

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	34.1		0.379	1.00	1	04/12/2024 20:53	WG2263166
Fluoride	0.229		0.0640	0.150	1	04/12/2024 20:53	WG2263166
Nitrate	2.13	Q	0.0480	0.100	1	04/17/2024 00:32	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 00:32	WG2261457
Sulfate	74.8		0.594	5.00	1	04/12/2024 20:53	WG2263166

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	567		10.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	21.4		0.379	1.00	1	04/12/2024 21:06	WG2263166
Fluoride	0.410	J3 P1	0.0640	0.150	1	04/12/2024 21:06	WG2263166
Nitrate	8.79	Q	0.0480	0.100	1	04/17/2024 00:44	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 00:44	WG2261457
Sulfate	78.7	J6	0.594	5.00	1	04/12/2024 21:06	WG2263166

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 10:02	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.414		0.0200	0.200	1	04/09/2024 09:43	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:53	WG2262919
Arsenic,Dissolved	0.00353		0.000180	0.00200	1	04/15/2024 18:53	WG2262919
Barium,Dissolved	0.102		0.000381	0.00200	1	04/15/2024 18:53	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:53	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:53	WG2262919
Copper,Dissolved	0.00373	J	0.00151	0.00500	1	04/15/2024 18:53	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 18:53	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:53	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:53	WG2262919
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 18:53	WG2262919
Molybdenum,Dissolved	0.00172	J	0.000348	0.00500	1	04/15/2024 18:53	WG2262919
Nickel,Dissolved	0.00596		0.000816	0.00200	1	04/15/2024 18:53	WG2262919
Selenium,Dissolved	0.00198	J	0.000300	0.00200	1	04/15/2024 18:53	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:53	WG2262919
Uranium,Dissolved	0.00597	J	0.0000700	0.0200	1	04/15/2024 18:53	WG2262919
Zinc,Dissolved	0.0210	J	0.00302	0.0250	1	04/15/2024 18:53	WG2262919

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/06/2024 23:55	WG2262003
Benzene	U		0.0000941	0.00100	1	04/06/2024 23:55	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/06/2024 23:55	WG2262003
Bromoform	U		0.000129	0.00100	1	04/06/2024 23:55	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/06/2024 23:55	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/06/2024 23:55	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/06/2024 23:55	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/06/2024 23:55	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/06/2024 23:55	WG2262003

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/06/2024 23:55	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/06/2024 23:55	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/06/2024 23:55	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/06/2024 23:55	WG2262003
Chloroform	U		0.000111	0.00500	1	04/06/2024 23:55	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/06/2024 23:55	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/06/2024 23:55	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/06/2024 23:55	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/06/2024 23:55	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/06/2024 23:55	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/06/2024 23:55	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/06/2024 23:55	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/06/2024 23:55	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/06/2024 23:55	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/06/2024 23:55	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/06/2024 23:55	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/06/2024 23:55	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/06/2024 23:55	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/06/2024 23:55	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/06/2024 23:55	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/06/2024 23:55	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/06/2024 23:55	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/06/2024 23:55	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/06/2024 23:55	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/06/2024 23:55	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/06/2024 23:55	WG2262003
Styrene	U		0.000118	0.00100	1	04/06/2024 23:55	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/06/2024 23:55	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/06/2024 23:55	WG2262003
Toluene	U		0.000278	0.00100	1	04/06/2024 23:55	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/06/2024 23:55	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/06/2024 23:55	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/06/2024 23:55	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/06/2024 23:55	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/06/2024 23:55	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/06/2024 23:55	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/06/2024 23:55	WG2262003
(S) Toluene-d8	*103*			*80.0-120*		*04/06/2024 23:55*	WG2262003
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/06/2024 23:55*	WG2262003
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*04/06/2024 23:55*	WG2262003

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000930	0.00105	1.05	04/16/2024 03:07	WG2263770
Acenaphthylene	U		0.0000967	0.00105	1.05	04/16/2024 03:07	WG2263770
Acetophenone	U		0.000218	0.0105	1.05	04/16/2024 03:07	WG2263770
Anthracene	U		0.0000844	0.00105	1.05	04/16/2024 03:07	WG2263770
Atrazine	U		0.000268	0.0105	1.05	04/16/2024 03:07	WG2263770
Benzo(a)anthracene	U		0.000209	0.00105	1.05	04/16/2024 03:07	WG2263770
Benzaldehyde	U	C6 J4	0.00177	0.0105	1.05	04/16/2024 03:07	WG2263770
Benzo(b)fluoranthene	U		0.000136	0.00105	1.05	04/16/2024 03:07	WG2263770
Benzo(k)fluoranthene	U		0.000126	0.00105	1.05	04/16/2024 03:07	WG2263770
Benzo(g,h,i)perylene	U		0.000127	0.00105	1.05	04/16/2024 03:07	WG2263770
Benzo(a)pyrene	U		0.0000400	0.000210	1.05	04/16/2024 03:07	WG2263770
Biphenyl	U		0.000829	0.0105	1.05	04/16/2024 03:07	WG2263770

Received by OCD: 4/15/2025 7:55:48 AM

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bis(2-chlorethoxy)methane	U		0.000122	0.0105	1.05	04/16/2024 03:07	WG2263770
Bis(2-chloroethyl)ether	U		0.000144	0.0105	1.05	04/16/2024 03:07	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000221	0.0105	1.05	04/16/2024 03:07	WG2263770
4-Bromophenyl-phenylether	U		0.0000921	0.0105	1.05	04/16/2024 03:07	WG2263770
2-Chloronaphthalene	U		0.0000680	0.00105	1.05	04/16/2024 03:07	WG2263770
4-Chlorophenyl-phenylether	U		0.0000972	0.0105	1.05	04/16/2024 03:07	WG2263770
Caprolactam	U		0.000324	0.0105	1.05	04/16/2024 03:07	WG2263770
Carbazole	U		0.000117	0.0105	1.05	04/16/2024 03:07	WG2263770
Chrysene	U		0.000136	0.00105	1.05	04/16/2024 03:07	WG2263770
Dibenz(a,h)anthracene	U		0.0000676	0.000210	1.05	04/16/2024 03:07	WG2263770
Dibenzofuran	U		0.000102	0.0105	1.05	04/16/2024 03:07	WG2263770
3,3-Dichlorobenzidine	U		0.000223	0.0105	1.05	04/16/2024 03:07	WG2263770
2,4-Dinitrotoluene	U		0.000103	0.0105	1.05	04/16/2024 03:07	WG2263770
2,6-Dinitrotoluene	U		0.000263	0.0105	1.05	04/16/2024 03:07	WG2263770
Fluoranthene	U		0.000107	0.00105	1.05	04/16/2024 03:07	WG2263770
Fluorene	U		0.0000886	0.00105	1.05	04/16/2024 03:07	WG2263770
Hexachlorobenzene	U		0.0000793	0.00105	1.05	04/16/2024 03:07	WG2263770
Hexachloro-1,3-butadiene	U		0.000102	0.0105	1.05	04/16/2024 03:07	WG2263770
Hexachlorocyclopentadiene	U		0.0000628	0.0105	1.05	04/16/2024 03:07	WG2263770
Hexachloroethane	U		0.000133	0.0105	1.05	04/16/2024 03:07	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000293	0.00105	1.05	04/16/2024 03:07	WG2263770
Isophorone	U		0.000150	0.0105	1.05	04/16/2024 03:07	WG2263770
1-Methylnaphthalene	U		0.0000829	0.00105	1.05	04/16/2024 03:07	WG2263770
2-Methylnaphthalene	U		0.000123	0.00105	1.05	04/16/2024 03:07	WG2263770
Naphthalene	U		0.000167	0.00105	1.05	04/16/2024 03:07	WG2263770
Nitrobenzene	U		0.000312	0.0105	1.05	04/16/2024 03:07	WG2263770
n-Nitrosodiphenylamine	U		0.00249	0.0105	1.05	04/16/2024 03:07	WG2263770
n-Nitrosodi-n-propylamine	U		0.000274	0.0105	1.05	04/16/2024 03:07	WG2263770
Phenanthrene	U		0.000118	0.00105	1.05	04/16/2024 03:07	WG2263770
Benzylbutyl phthalate	U		0.000803	0.00315	1.05	04/16/2024 03:07	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000940	0.00315	1.05	04/16/2024 03:07	WG2263770
Di-n-butyl phthalate	U		0.000476	0.00315	1.05	04/16/2024 03:07	WG2263770
Diethyl phthalate	U		0.000301	0.00315	1.05	04/16/2024 03:07	WG2263770
Dimethyl phthalate	U		0.000273	0.00315	1.05	04/16/2024 03:07	WG2263770
Di-n-octyl phthalate	U		0.000979	0.00315	1.05	04/16/2024 03:07	WG2263770
Pyrene	U		0.000112	0.00105	1.05	04/16/2024 03:07	WG2263770
1,2,4-Trichlorobenzene	U		0.0000733	0.0105	1.05	04/16/2024 03:07	WG2263770
4-Chloro-3-methylphenol	U		0.000138	0.0105	1.05	04/16/2024 03:07	WG2263770
2-Chlorophenol	U		0.000140	0.0105	1.05	04/16/2024 03:07	WG2263770
2,4-Dichlorophenol	U		0.000107	0.0105	1.05	04/16/2024 03:07	WG2263770
2,4-Dimethylphenol	U		0.0000668	0.0105	1.05	04/16/2024 03:07	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00118	0.0105	1.05	04/16/2024 03:07	WG2263770
2,4-Dinitrophenol	U		0.00623	0.0105	1.05	04/16/2024 03:07	WG2263770
2-Nitrophenol	U		0.000123	0.0105	1.05	04/16/2024 03:07	WG2263770
2-Nitroaniline	U		0.000107	0.0105	1.05	04/16/2024 03:07	WG2263770
2-Methylphenol	U		0.0000975	0.0105	1.05	04/16/2024 03:07	WG2263770
3&4-Methyl Phenol	U		0.000176	0.0105	1.05	04/16/2024 03:07	WG2263770
3-Nitroaniline	U		0.0000912	0.0105	1.05	04/16/2024 03:07	WG2263770
4-Chloroaniline	U		0.000246	0.0105	1.05	04/16/2024 03:07	WG2263770
4-Nitroaniline	U		0.0000956	0.0105	1.05	04/16/2024 03:07	WG2263770
4-Nitrophenol	U		0.000150	0.0105	1.05	04/16/2024 03:07	WG2263770
Pentachlorophenol	U		0.000329	0.0105	1.05	04/16/2024 03:07	WG2263770
Phenol	U		0.00455	0.0105	1.05	04/16/2024 03:07	WG2263770
2,4,5-Trichlorophenol	U		0.000114	0.0105	1.05	04/16/2024 03:07	WG2263770
2,4,6-Trichlorophenol	U		0.000105	0.0105	1.05	04/16/2024 03:07	WG2263770
(S) 2-Fluorophenol	*32.0*			*10.0-120*		*04/16/2024 03:07*	WG2263770

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

Released to Imaging: 5/2/2025 9:53:52 AM

MW-12R2
Collected date/time: 04/04/24 11:15
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) Phenol-d5	*19.2*			*10.0-120*		*04/16/2024 03:07*	WG2263770
(S) Nitrobenzene-d5	*47.2*			*10.0-127*		*04/16/2024 03:07*	WG2263770
(S) 2-Fluorobiphenyl	*55.7*			*10.0-130*		*04/16/2024 03:07*	WG2263770
(S) 2,4,6-Tribromophenol	*63.3*			*10.0-155*		*04/16/2024 03:07*	WG2263770
(S) p-Terphenyl-d14	*62.7*			*10.0-128*		*04/16/2024 03:07*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	695		13.3	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	98.1		0.379	1.00	1	04/12/2024 22:23	WG2263166
Fluoride	0.153		0.0640	0.150	1	04/12/2024 22:23	WG2263166
Nitrate	2.85	Q	0.0480	0.100	1	04/17/2024 00:57	WG2261457
Nitrite	0.281	Q	0.0420	0.100	1	04/17/2024 00:57	WG2261457
Sulfate	131		0.594	5.00	1	04/12/2024 22:23	WG2263166

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 10:04	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.169	J	0.0200	0.200	1	04/09/2024 09:46	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 18:57	WG2262919
Arsenic,Dissolved	0.00330		0.000180	0.00200	1	04/15/2024 18:57	WG2262919
Barium,Dissolved	0.352		0.000381	0.00200	1	04/15/2024 18:57	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 18:57	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 18:57	WG2262919
Copper,Dissolved	0.00602		0.00151	0.00500	1	04/15/2024 18:57	WG2262919
Cobalt,Dissolved	0.000640	J	0.0000596	0.00200	1	04/15/2024 18:57	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 18:57	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 18:57	WG2262919
Manganese,Dissolved	0.114		0.000704	0.00500	1	04/15/2024 18:57	WG2262919
Molybdenum,Dissolved	0.00124	J	0.000348	0.00500	1	04/15/2024 18:57	WG2262919
Nickel,Dissolved	0.00295		0.000816	0.00200	1	04/15/2024 18:57	WG2262919
Selenium,Dissolved	0.000817	J	0.000300	0.00200	1	04/15/2024 18:57	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 18:57	WG2262919
Uranium,Dissolved	0.00609	J	0.0000700	0.0200	1	04/15/2024 18:57	WG2262919
Zinc,Dissolved	0.0415		0.00302	0.0250	1	04/15/2024 18:57	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/12/2024 02:16	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*92.3*			*78.0-120*		*04/12/2024 02:16*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 00:14	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 00:14	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 00:14	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 00:14	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 00:14	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 00:14	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 00:14	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 00:14	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 00:14	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 00:14	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 00:14	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 00:14	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 00:14	WG2262003
Chloroform	U		0.000111	0.00500	1	04/07/2024 00:14	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 00:14	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 00:14	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 00:14	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 00:14	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 00:14	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 00:14	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 00:14	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 00:14	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 00:14	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 00:14	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 00:14	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 00:14	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 00:14	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 00:14	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 00:14	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 00:14	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 00:14	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 00:14	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 00:14	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 00:14	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 00:14	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 00:14	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 00:14	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 00:14	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 00:14	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 00:14	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 00:14	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 00:14	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 00:14	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 00:14	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 00:14	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 00:14	WG2262003
(S) Toluene-d8	*103*			*80.0-120*		*04/07/2024 00:14*	WG2262003
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*		*04/07/2024 00:14*	WG2262003
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*04/07/2024 00:14*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.224		0.0247	0.100	1	04/14/2024 21:08	WG2265501
(S) o-Terphenyl	*65.8*			*52.0-156*		*04/14/2024 21:08*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 08:50	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 08:50	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 08:50	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 08:50	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 08:50	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 08:50	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 08:50	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 08:50	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 08:50	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 08:50	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 08:50	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 08:50	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 08:50	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 08:50	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 08:50	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 08:50	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 08:50	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 08:50	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 08:50	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 08:50	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 08:50	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 08:50	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 08:50	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 08:50	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 08:50	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 08:50	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 08:50	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 08:50	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 08:50	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 08:50	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 08:50	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 08:50	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 08:50	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 08:50	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 08:50	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 08:50	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 08:50	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 08:50	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 08:50	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 08:50	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 08:50	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 08:50	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 08:50	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 08:50	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 08:50	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 08:50	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 08:50	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 08:50	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 08:50	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 08:50	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 08:50	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 08:50	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 08:50	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 08:50	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 08:50	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 08:50	WG2263770

MW-32
Collected date/time: 04/04/24 08:50
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 08:50	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 08:50	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 08:50	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 08:50	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 08:50	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 08:50	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 08:50	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 08:50	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 08:50	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 08:50	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 08:50	WG2263770
(S) 2-Fluorophenol	*33.5*			*10.0-120*		*04/16/2024 08:50*	WG2263770
(S) Phenol-d5	*20.8*			*10.0-120*		*04/16/2024 08:50*	WG2263770
(S) Nitrobenzene-d5	*53.8*			*10.0-127*		*04/16/2024 08:50*	WG2263770
(S) 2-Fluorobiphenyl	*64.1*			*10.0-130*		*04/16/2024 08:50*	WG2263770
(S) 2,4,6-Tribromophenol	*69.5*			*10.0-155*		*04/16/2024 08:50*	WG2263770
(S) p-Terphenyl-d14	*68.5*			*10.0-128*		*04/16/2024 08:50*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1100		25.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	120	J6	0.379	1.00	1	04/12/2024 12:21	WG2263160
Fluoride	0.421	B P1	0.0640	0.150	1	04/12/2024 12:21	WG2263160
Nitrate	U	Q	0.0480	0.100	1	04/17/2024 01:10	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 01:10	WG2261457
Sulfate	2.92	J	0.594	5.00	1	04/12/2024 12:21	WG2263160

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U	J6 O1	0.000100	0.000200	1	04/09/2024 09:29	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.166	J	0.0200	0.200	1	04/09/2024 08:49	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 17:47	WG2262919
Arsenic,Dissolved	0.00402		0.000180	0.00200	1	04/15/2024 17:47	WG2262919
Barium,Dissolved	0.717	V	0.000381	0.00200	1	04/15/2024 17:47	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 17:47	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 17:47	WG2262919
Copper,Dissolved	U		0.00151	0.00500	1	04/15/2024 17:47	WG2262919
Cobalt,Dissolved	0.0000959	J	0.0000596	0.00200	1	04/15/2024 17:47	WG2262919
Iron,Dissolved	1.59		0.0281	0.100	1	04/15/2024 17:47	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 17:47	WG2262919
Manganese,Dissolved	0.882		0.000704	0.00500	1	04/15/2024 17:47	WG2262919
Molybdenum,Dissolved	0.00210	J	0.000348	0.00500	1	04/15/2024 17:47	WG2262919
Nickel,Dissolved	0.00102	J	0.000816	0.00200	1	04/15/2024 17:47	WG2262919
Selenium,Dissolved	U		0.000300	0.00200	1	04/15/2024 17:47	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 17:47	WG2262919
Uranium,Dissolved	0.0611		0.0000700	0.0200	1	04/15/2024 17:47	WG2262919
Zinc,Dissolved	U		0.00302	0.0250	1	04/15/2024 17:47	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0500	B J	0.0314	0.100	1	04/12/2024 02:38	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*90.5*			*78.0-120*		*04/12/2024 02:38*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 00:33	WG2262003
Benzene	0.000181	J	0.0000941	0.00100	1	04/07/2024 00:33	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 00:33	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 00:33	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 00:33	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 00:33	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 00:33	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 00:33	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 00:33	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 00:33	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 00:33	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 00:33	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 00:33	WG2262003
Chloroform	U		0.000111	0.00500	1	04/07/2024 00:33	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 00:33	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 00:33	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 00:33	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 00:33	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 00:33	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 00:33	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 00:33	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 00:33	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 00:33	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 00:33	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 00:33	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 00:33	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 00:33	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 00:33	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 00:33	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 00:33	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 00:33	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 00:33	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 00:33	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 00:33	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 00:33	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 00:33	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 00:33	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 00:33	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 00:33	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 00:33	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 00:33	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 00:33	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 00:33	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 00:33	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 00:33	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 00:33	WG2262003
(S) Toluene-d8	*104*			*80.0-120*		*04/07/2024 00:33*	WG2262003
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*04/07/2024 00:33*	WG2262003
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*04/07/2024 00:33*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0453	J	0.0247	0.100	1	04/14/2024 21:28	WG2265501
(S) o-Terphenyl	*74.7*			*52.0-156*		*04/14/2024 21:28*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 03:28	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 03:28	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 03:28	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 03:28	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 03:28	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 03:28	WG2263770
Benzaldehyde	U	C6 J4 J5	0.00169	0.0100	1	04/16/2024 03:28	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 03:28	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 03:28	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 03:28	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 03:28	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 03:28	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 03:28	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 03:28	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 03:28	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 03:28	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 03:28	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 03:28	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 03:28	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 03:28	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 03:28	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 03:28	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 03:28	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 03:28	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 03:28	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 03:28	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 03:28	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 03:28	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 03:28	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 03:28	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 03:28	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 03:28	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 03:28	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 03:28	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 03:28	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 03:28	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 03:28	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 03:28	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 03:28	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 03:28	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 03:28	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 03:28	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 03:28	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 03:28	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 03:28	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 03:28	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 03:28	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 03:28	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 03:28	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 03:28	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 03:28	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 03:28	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 03:28	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 03:28	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 03:28	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 03:28	WG2263770

MW-33
Collected date/time: 04/04/24 10:00
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 03:28	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 03:28	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 03:28	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 03:28	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 03:28	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 03:28	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 03:28	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 03:28	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 03:28	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 03:28	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 03:28	WG2263770
(S) 2-Fluorophenol	*38.7*			*10.0-120*		*04/16/2024 03:28*	WG2263770
(S) Phenol-d5	*24.7*			*10.0-120*		*04/16/2024 03:28*	WG2263770
(S) Nitrobenzene-d5	*56.9*			*10.0-127*		*04/16/2024 03:28*	WG2263770
(S) 2-Fluorobiphenyl	*65.2*			*10.0-130*		*04/16/2024 03:28*	WG2263770
(S) 2,4,6-Tribromophenol	*75.5*			*10.0-155*		*04/16/2024 03:28*	WG2263770
(S) p-Terphenyl-d14	*69.7*			*10.0-128*		*04/16/2024 03:28*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	517		10.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	114		0.379	1.00	1	04/12/2024 13:12	WG2263160
Fluoride	U		0.0640	0.150	1	04/12/2024 13:12	WG2263160
Nitrate	2.99	Q	0.0480	0.100	1	04/17/2024 01:47	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 01:47	WG2261457
Sulfate	U		0.594	5.00	1	04/12/2024 13:12	WG2263160

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 10:06	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.148	J	0.0200	0.200	1	04/09/2024 09:50	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 19:00	WG2262919
Arsenic,Dissolved	0.00653		0.000180	0.00200	1	04/15/2024 19:00	WG2262919
Barium,Dissolved	0.109		0.000381	0.00200	1	04/15/2024 19:00	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 19:00	WG2262919
Chromium,Dissolved	0.00310		0.00124	0.00200	1	04/15/2024 19:00	WG2262919
Copper,Dissolved	0.00289	J	0.00151	0.00500	1	04/15/2024 19:00	WG2262919
Cobalt,Dissolved	0.0000658	J	0.0000596	0.00200	1	04/15/2024 19:00	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 19:00	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 19:00	WG2262919
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 19:00	WG2262919
Molybdenum,Dissolved	0.00304	J	0.000348	0.00500	1	04/15/2024 19:00	WG2262919
Nickel,Dissolved	0.00102	J	0.000816	0.00200	1	04/15/2024 19:00	WG2262919
Selenium,Dissolved	0.00371		0.000300	0.00200	1	04/15/2024 19:00	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 19:00	WG2262919
Uranium,Dissolved	0.00186	J	0.0000700	0.0200	1	04/15/2024 19:00	WG2262919
Zinc,Dissolved	0.00966	J	0.00302	0.0250	1	04/15/2024 19:00	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/12/2024 03:02	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*93.1*			*78.0-120*		*04/12/2024 03:02*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 00:52	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 00:52	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 00:52	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 00:52	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 00:52	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 00:52	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 00:52	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 00:52	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 00:52	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 00:52	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 00:52	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 00:52	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 00:52	WG2262003
Chloroform	U		0.000111	0.00500	1	04/07/2024 00:52	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 00:52	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 00:52	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 00:52	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 00:52	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 00:52	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 00:52	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 00:52	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 00:52	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 00:52	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 00:52	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 00:52	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 00:52	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 00:52	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 00:52	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 00:52	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 00:52	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 00:52	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 00:52	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 00:52	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 00:52	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 00:52	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 00:52	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 00:52	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 00:52	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 00:52	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 00:52	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 00:52	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 00:52	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 00:52	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 00:52	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 00:52	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 00:52	WG2262003
(S) Toluene-d8	*104*			*80.0-120*		*04/07/2024 00:52*	WG2262003
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/07/2024 00:52*	WG2262003
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*04/07/2024 00:52*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/14/2024 22:29	WG2265501
(S) o-Terphenyl	*89.5*			*52.0-156*		*04/14/2024 22:29*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 04:33	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 04:33	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 04:33	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 04:33	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 04:33	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 04:33	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 04:33	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 04:33	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 04:33	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 04:33	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 04:33	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 04:33	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 04:33	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 04:33	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 04:33	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 04:33	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 04:33	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 04:33	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 04:33	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 04:33	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 04:33	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 04:33	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 04:33	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 04:33	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 04:33	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 04:33	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 04:33	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 04:33	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 04:33	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 04:33	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 04:33	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 04:33	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 04:33	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 04:33	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 04:33	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 04:33	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 04:33	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 04:33	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 04:33	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 04:33	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 04:33	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 04:33	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 04:33	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 04:33	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 04:33	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 04:33	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 04:33	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 04:33	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 04:33	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 04:33	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 04:33	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 04:33	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 04:33	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 04:33	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 04:33	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 04:33	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 04:33	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 04:33	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 04:33	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 04:33	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 04:33	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 04:33	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 04:33	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 04:33	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 04:33	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 04:33	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 04:33	WG2263770
(S) 2-Fluorophenol	*39.3*			*10.0-120*		*04/16/2024 04:33*	WG2263770
(S) Phenol-d5	*23.8*			*10.0-120*		*04/16/2024 04:33*	WG2263770
(S) Nitrobenzene-d5	*62.0*			*10.0-127*		*04/16/2024 04:33*	WG2263770
(S) 2-Fluorobiphenyl	*70.1*			*10.0-130*		*04/16/2024 04:33*	WG2263770
(S) 2,4,6-Tribromophenol	*77.4*			*10.0-155*		*04/16/2024 04:33*	WG2263770
(S) p-Terphenyl-d14	*74.8*			*10.0-128*		*04/16/2024 04:33*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	926		20.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	348		1.90	5.00	5	04/12/2024 14:03	WG2263160
Fluoride	0.758	B	0.0640	0.150	1	04/12/2024 13:51	WG2263160
Nitrate	3.35	Q	0.0480	0.100	1	04/17/2024 02:25	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 02:25	WG2261457
Sulfate	97.1		0.594	5.00	1	04/12/2024 13:51	WG2263160

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/09/2024 10:08	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.186	J	0.0200	0.200	1	04/09/2024 09:53	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 19:03	WG2262919
Arsenic,Dissolved	0.00485		0.000180	0.00200	1	04/15/2024 19:03	WG2262919
Barium,Dissolved	0.121		0.000381	0.00200	1	04/15/2024 19:03	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 19:03	WG2262919
Chromium,Dissolved	0.00144	J	0.00124	0.00200	1	04/15/2024 19:03	WG2262919
Copper,Dissolved	U		0.00151	0.00500	1	04/15/2024 19:03	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 19:03	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 19:03	WG2262919
Lead,Dissolved	0.00112	J	0.000849	0.00200	1	04/15/2024 19:03	WG2262919
Manganese,Dissolved	0.000967	J	0.000704	0.00500	1	04/15/2024 19:03	WG2262919
Molybdenum,Dissolved	0.00194	J	0.000348	0.00500	1	04/15/2024 19:03	WG2262919
Nickel,Dissolved	0.00265		0.000816	0.00200	1	04/15/2024 19:03	WG2262919
Selenium,Dissolved	0.00408		0.000300	0.00200	1	04/15/2024 19:03	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 19:03	WG2262919
Uranium,Dissolved	0.00216	J	0.0000700	0.0200	1	04/15/2024 19:03	WG2262919
Zinc,Dissolved	0.0227	J	0.00302	0.0250	1	04/15/2024 19:03	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0315	B J	0.0314	0.100	1	04/12/2024 03:24	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*92.0*			*78.0-120*		*04/12/2024 03:24*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 01:11	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 01:11	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 01:11	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 01:11	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 01:11	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 01:11	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 01:11	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 01:11	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 01:11	WG2262003
Carbon tetrachloride	0.000562	J	0.000128	0.00100	1	04/07/2024 01:11	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 01:11	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 01:11	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 01:11	WG2262003
Chloroform	0.00140	J	0.000111	0.00500	1	04/07/2024 01:11	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 01:11	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 01:11	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 01:11	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 01:11	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 01:11	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 01:11	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 01:11	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 01:11	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 01:11	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 01:11	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 01:11	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 01:11	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 01:11	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 01:11	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 01:11	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 01:11	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 01:11	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 01:11	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 01:11	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 01:11	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 01:11	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 01:11	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 01:11	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 01:11	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 01:11	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 01:11	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 01:11	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 01:11	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 01:11	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 01:11	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 01:11	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 01:11	WG2262003
(S) Toluene-d8	*103*			*80.0-120*		*04/07/2024 01:11*	WG2262003
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/07/2024 01:11*	WG2262003
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*04/07/2024 01:11*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/14/2024 22:50	WG2265501
(S) o-Terphenyl	*84.2*			*52.0-156*		*04/14/2024 22:50*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 04:54	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 04:54	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 04:54	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 04:54	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 04:54	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 04:54	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 04:54	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 04:54	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 04:54	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 04:54	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 04:54	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 04:54	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 04:54	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 04:54	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 04:54	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 04:54	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 04:54	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 04:54	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 04:54	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 04:54	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 04:54	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 04:54	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 04:54	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 04:54	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 04:54	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 04:54	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 04:54	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 04:54	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 04:54	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 04:54	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 04:54	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 04:54	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 04:54	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 04:54	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 04:54	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 04:54	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 04:54	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 04:54	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 04:54	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 04:54	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 04:54	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 04:54	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 04:54	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 04:54	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 04:54	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 04:54	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 04:54	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 04:54	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 04:54	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 04:54	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 04:54	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 04:54	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 04:54	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 04:54	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 04:54	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 04:54	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 04:54	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 04:54	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 04:54	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 04:54	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 04:54	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 04:54	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 04:54	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 04:54	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 04:54	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 04:54	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 04:54	WG2263770
(S) 2-Fluorophenol	*35.1*			*10.0-120*		*04/16/2024 04:54*	WG2263770
(S) Phenol-d5	*21.9*			*10.0-120*		*04/16/2024 04:54*	WG2263770
(S) Nitrobenzene-d5	*52.6*			*10.0-127*		*04/16/2024 04:54*	WG2263770
(S) 2-Fluorobiphenyl	*62.5*			*10.0-130*		*04/16/2024 04:54*	WG2263770
(S) 2,4,6-Tribromophenol	*71.0*			*10.0-155*		*04/16/2024 04:54*	WG2263770
(S) p-Terphenyl-d14	*68.4*			*10.0-128*		*04/16/2024 04:54*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	426		10.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	78.6		0.379	1.00	1	04/12/2024 14:16	WG2263160
Fluoride	0.588	B	0.0640	0.150	1	04/12/2024 14:16	WG2263160
Nitrate	2.76	Q	0.0480	0.100	1	04/17/2024 02:38	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 02:38	WG2261457
Sulfate	86.6		0.594	5.00	1	04/12/2024 14:16	WG2263160

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/09/2024 10:11	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.142	J	0.0200	0.200	1	04/09/2024 09:57	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 19:07	WG2262919
Arsenic,Dissolved	0.00553		0.000180	0.00200	1	04/15/2024 19:07	WG2262919
Barium,Dissolved	0.0829		0.000381	0.00200	1	04/15/2024 19:07	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 19:07	WG2262919
Chromium,Dissolved	0.00184	J	0.00124	0.00200	1	04/15/2024 19:07	WG2262919
Copper,Dissolved	0.00278	J	0.00151	0.00500	1	04/15/2024 19:07	WG2262919
Cobalt,Dissolved	0.0000669	J	0.0000596	0.00200	1	04/15/2024 19:07	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 19:07	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 19:07	WG2262919
Manganese,Dissolved	0.00153	J	0.000704	0.00500	1	04/15/2024 19:07	WG2262919
Molybdenum,Dissolved	0.00273	J	0.000348	0.00500	1	04/15/2024 19:07	WG2262919
Nickel,Dissolved	U		0.000816	0.00200	1	04/15/2024 19:07	WG2262919
Selenium,Dissolved	0.00411		0.000300	0.00200	1	04/15/2024 19:07	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 19:07	WG2262919
Uranium,Dissolved	0.00167	J	0.0000700	0.0200	1	04/15/2024 19:07	WG2262919
Zinc,Dissolved	0.0115	J	0.00302	0.0250	1	04/15/2024 19:07	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/12/2024 03:47	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*78.0-120*		*04/12/2024 03:47*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 01:30	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 01:30	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 01:30	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 01:30	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 01:30	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 01:30	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 01:30	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 01:30	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 01:30	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 01:30	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 01:30	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 01:30	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 01:30	WG2262003
Chloroform	U		0.000111	0.00500	1	04/07/2024 01:30	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 01:30	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 01:30	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 01:30	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 01:30	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 01:30	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 01:30	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 01:30	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 01:30	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 01:30	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 01:30	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 01:30	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 01:30	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 01:30	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 01:30	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 01:30	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 01:30	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 01:30	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 01:30	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 01:30	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 01:30	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 01:30	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 01:30	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 01:30	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 01:30	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 01:30	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 01:30	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 01:30	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 01:30	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 01:30	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 01:30	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 01:30	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 01:30	WG2262003
(S) Toluene-d8	*99.9*			*80.0-120*		*04/07/2024 01:30*	WG2262003
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/07/2024 01:30*	WG2262003
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/07/2024 01:30*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/14/2024 23:10	WG2265501
(S) o-Terphenyl	*92.6*			*52.0-156*		*04/14/2024 23:10*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 05:16	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 05:16	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 05:16	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 05:16	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 05:16	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 05:16	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 05:16	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 05:16	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 05:16	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 05:16	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 05:16	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 05:16	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 05:16	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 05:16	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 05:16	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 05:16	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 05:16	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 05:16	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 05:16	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 05:16	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 05:16	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 05:16	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 05:16	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 05:16	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 05:16	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 05:16	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 05:16	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 05:16	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 05:16	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 05:16	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 05:16	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 05:16	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 05:16	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 05:16	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 05:16	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 05:16	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 05:16	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 05:16	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 05:16	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 05:16	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 05:16	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 05:16	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 05:16	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 05:16	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 05:16	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 05:16	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 05:16	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 05:16	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 05:16	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 05:16	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 05:16	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 05:16	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 05:16	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 05:16	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 05:16	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 05:16	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 05:16	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 05:16	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 05:16	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 05:16	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 05:16	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 05:16	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 05:16	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 05:16	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 05:16	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 05:16	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 05:16	WG2263770
(S) 2-Fluorophenol	*28.2*			*10.0-120*		*04/16/2024 05:16*	WG2263770
(S) Phenol-d5	*17.7*			*10.0-120*		*04/16/2024 05:16*	WG2263770
(S) Nitrobenzene-d5	*38.9*			*10.0-127*		*04/16/2024 05:16*	WG2263770
(S) 2-Fluorobiphenyl	*46.8*			*10.0-130*		*04/16/2024 05:16*	WG2263770
(S) 2,4,6-Tribromophenol	*53.7*			*10.0-155*		*04/16/2024 05:16*	WG2263770
(S) p-Terphenyl-d14	*53.8*			*10.0-128*		*04/16/2024 05:16*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	990		20.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	342		1.90	5.00	5	04/12/2024 14:42	WG2263160
Fluoride	0.494	B	0.0640	0.150	1	04/12/2024 14:29	WG2263160
Nitrate	3.30	Q	0.0480	0.100	1	04/17/2024 03:03	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 03:03	WG2261457
Sulfate	97.9		0.594	5.00	1	04/12/2024 14:29	WG2263160

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/09/2024 10:13	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.195	J	0.0200	0.200	1	04/09/2024 10:07	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 19:10	WG2262919
Arsenic,Dissolved	0.00457		0.000180	0.00200	1	04/15/2024 19:10	WG2262919
Barium,Dissolved	0.124		0.000381	0.00200	1	04/15/2024 19:10	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 19:10	WG2262919
Chromium,Dissolved	0.00126	J	0.00124	0.00200	1	04/15/2024 19:10	WG2262919
Copper,Dissolved	U		0.00151	0.00500	1	04/15/2024 19:10	WG2262919
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 19:10	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 19:10	WG2262919
Lead,Dissolved	0.00195	J	0.000849	0.00200	1	04/15/2024 19:10	WG2262919
Manganese,Dissolved	0.000961	J	0.000704	0.00500	1	04/15/2024 19:10	WG2262919
Molybdenum,Dissolved	0.00223	J	0.000348	0.00500	1	04/15/2024 19:10	WG2262919
Nickel,Dissolved	0.00435		0.000816	0.00200	1	04/15/2024 19:10	WG2262919
Selenium,Dissolved	0.00392		0.000300	0.00200	1	04/15/2024 19:10	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 19:10	WG2262919
Uranium,Dissolved	0.00220	J	0.0000700	0.0200	1	04/15/2024 19:10	WG2262919
Zinc,Dissolved	0.0253		0.00302	0.0250	1	04/15/2024 19:10	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/12/2024 04:10	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*92.8*			*78.0-120*		*04/12/2024 04:10*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 01:49	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 01:49	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 01:49	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 01:49	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 01:49	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 01:49	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 01:49	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 01:49	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 01:49	WG2262003
Carbon tetrachloride	0.000708	J	0.000128	0.00100	1	04/07/2024 01:49	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 01:49	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 01:49	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 01:49	WG2262003
Chloroform	0.00173	J	0.000111	0.00500	1	04/07/2024 01:49	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 01:49	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 01:49	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 01:49	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 01:49	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 01:49	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 01:49	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 01:49	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 01:49	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 01:49	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 01:49	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 01:49	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 01:49	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 01:49	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 01:49	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 01:49	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 01:49	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 01:49	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 01:49	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 01:49	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 01:49	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 01:49	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 01:49	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 01:49	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 01:49	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 01:49	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 01:49	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 01:49	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 01:49	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 01:49	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 01:49	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 01:49	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 01:49	WG2262003
(S) Toluene-d8	*103*			*80.0-120*		*04/07/2024 01:49*	WG2262003
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*04/07/2024 01:49*	WG2262003
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*04/07/2024 01:49*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/14/2024 23:30	WG2265501
(S) o-Terphenyl	*75.3*			*52.0-156*		*04/14/2024 23:30*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 05:37	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 05:37	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 05:37	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 05:37	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 05:37	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 05:37	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 05:37	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 05:37	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 05:37	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 05:37	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 05:37	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 05:37	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 05:37	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 05:37	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 05:37	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 05:37	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 05:37	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 05:37	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 05:37	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 05:37	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 05:37	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 05:37	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 05:37	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 05:37	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 05:37	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 05:37	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 05:37	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 05:37	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 05:37	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 05:37	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 05:37	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 05:37	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 05:37	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 05:37	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 05:37	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 05:37	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 05:37	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 05:37	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 05:37	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 05:37	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 05:37	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 05:37	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 05:37	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 05:37	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 05:37	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 05:37	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 05:37	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 05:37	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 05:37	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 05:37	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 05:37	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 05:37	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 05:37	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 05:37	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 05:37	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 05:37	WG2263770

DUP-01
Collected date/time: 04/04/24 10:00
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 05:37	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 05:37	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 05:37	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 05:37	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 05:37	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 05:37	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 05:37	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 05:37	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 05:37	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 05:37	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 05:37	WG2263770
(S) 2-Fluorophenol	*35.8*			*10.0-120*		*04/16/2024 05:37*	WG2263770
(S) Phenol-d5	*21.8*			*10.0-120*		*04/16/2024 05:37*	WG2263770
(S) Nitrobenzene-d5	*53.4*			*10.0-127*		*04/16/2024 05:37*	WG2263770
(S) 2-Fluorobiphenyl	*64.3*			*10.0-130*		*04/16/2024 05:37*	WG2263770
(S) 2,4,6-Tribromophenol	*70.0*			*10.0-155*		*04/16/2024 05:37*	WG2263770
(S) p-Terphenyl-d14	*70.8*			*10.0-128*		*04/16/2024 05:37*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	681		13.3	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	102		0.379	1.00	1	04/12/2024 14:55	WG2263160
Fluoride	0.294	B	0.0640	0.150	1	04/12/2024 14:55	WG2263160
Nitrate	2.79	Q	0.0480	0.100	1	04/17/2024 03:16	WG2261457
Nitrite	0.324	Q	0.0420	0.100	1	04/17/2024 03:16	WG2261457
Sulfate	135		0.594	5.00	1	04/12/2024 14:55	WG2263160

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 10:20	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.169	J	0.0200	0.200	1	04/09/2024 10:11	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 19:13	WG2262919
Arsenic,Dissolved	0.00342		0.000180	0.00200	1	04/15/2024 19:13	WG2262919
Barium,Dissolved	0.367		0.000381	0.00200	1	04/15/2024 19:13	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 19:13	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 19:13	WG2262919
Copper,Dissolved	0.00738		0.00151	0.00500	1	04/15/2024 19:13	WG2262919
Cobalt,Dissolved	0.000686	J	0.0000596	0.00200	1	04/15/2024 19:13	WG2262919
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 19:13	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 19:13	WG2262919
Manganese,Dissolved	0.119		0.000704	0.00500	1	04/15/2024 19:13	WG2262919
Molybdenum,Dissolved	0.00124	J	0.000348	0.00500	1	04/15/2024 19:13	WG2262919
Nickel,Dissolved	0.00286		0.000816	0.00200	1	04/15/2024 19:13	WG2262919
Selenium,Dissolved	0.000759	J	0.000300	0.00200	1	04/15/2024 19:13	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 19:13	WG2262919
Uranium,Dissolved	0.00626	J	0.0000700	0.0200	1	04/15/2024 19:13	WG2262919
Zinc,Dissolved	0.0429		0.00302	0.0250	1	04/15/2024 19:13	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/12/2024 04:33	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*78.0-120*		*04/12/2024 04:33*	WG2265329

Received by OCD: 4/15/2025 7:55:48 AM

DUP-02
Collected date/time: 04/04/24 10:00
L1722760

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 02:07	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 02:07	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 02:07	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 02:07	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 02:07	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 02:07	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 02:07	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 02:07	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 02:07	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 02:07	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 02:07	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 02:07	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 02:07	WG2262003
Chloroform	U		0.000111	0.00500	1	04/07/2024 02:07	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 02:07	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 02:07	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 02:07	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 02:07	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 02:07	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 02:07	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 02:07	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 02:07	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 02:07	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 02:07	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 02:07	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 02:07	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 02:07	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 02:07	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 02:07	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 02:07	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 02:07	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 02:07	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 02:07	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 02:07	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 02:07	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 02:07	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 02:07	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 02:07	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 02:07	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 02:07	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 02:07	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 02:07	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 02:07	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 02:07	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 02:07	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 02:07	WG2262003
(S) Toluene-d8	*104*			*80.0-120*		*04/07/2024 02:07*	WG2262003
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/07/2024 02:07*	WG2262003
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*04/07/2024 02:07*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.239		0.0247	0.100	1	04/14/2024 23:51	WG2265501
(S) o-Terphenyl	*74.2*			*52.0-156*		*04/14/2024 23:51*	WG2265501

Released to Imaging: 5/2/2025 9:53:52 AM

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 09:12	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 09:12	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 09:12	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 09:12	WG2263770
Atrazine	U		0.000255	0.0100	1	04/16/2024 09:12	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 09:12	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 09:12	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 09:12	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 09:12	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 09:12	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 09:12	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 09:12	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 09:12	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 09:12	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 09:12	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 09:12	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 09:12	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 09:12	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 09:12	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 09:12	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 09:12	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 09:12	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 09:12	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 09:12	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 09:12	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 09:12	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 09:12	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 09:12	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 09:12	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 09:12	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 09:12	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 09:12	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 09:12	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 09:12	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 09:12	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 09:12	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 09:12	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 09:12	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 09:12	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 09:12	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 09:12	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 09:12	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 09:12	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 09:12	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 09:12	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 09:12	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 09:12	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 09:12	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 09:12	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 09:12	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 09:12	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 09:12	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 09:12	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 09:12	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 09:12	WG2263770
2-Nitrophenol	0.000145	J	0.000117	0.0100	1	04/16/2024 09:12	WG2263770

DUP-02
Collected date/time: 04/04/24 10:00
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 09:12	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 09:12	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 09:12	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 09:12	WG2263770
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 09:12	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 09:12	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 09:12	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 09:12	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 09:12	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 09:12	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 09:12	WG2263770
(S) 2-Fluorophenol	*31.7*			*10.0-120*		*04/16/2024 09:12*	WG2263770
(S) Phenol-d5	*19.5*			*10.0-120*		*04/16/2024 09:12*	WG2263770
(S) Nitrobenzene-d5	*50.8*			*10.0-127*		*04/16/2024 09:12*	WG2263770
(S) 2-Fluorobiphenyl	*61.0*			*10.0-130*		*04/16/2024 09:12*	WG2263770
(S) 2,4,6-Tribromophenol	*67.5*			*10.0-155*		*04/16/2024 09:12*	WG2263770
(S) p-Terphenyl-d14	*66.7*			*10.0-128*		*04/16/2024 09:12*	WG2263770

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	119		0.379	1.00	1	04/12/2024 15:07	WG2263160
Fluoride	0.703	B	0.0640	0.150	1	04/12/2024 15:07	WG2263160
Nitrate	U	Q	0.0480	0.100	1	04/17/2024 03:28	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 03:28	WG2261457
Sulfate	5.74		0.594	5.00	1	04/12/2024 15:07	WG2263160

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 10:23	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.165	J	0.0200	0.200	1	04/09/2024 10:15	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 19:16	WG2262919
Arsenic,Dissolved	0.00376		0.000180	0.00200	1	04/15/2024 19:16	WG2262919
Barium,Dissolved	0.719		0.000381	0.00200	1	04/15/2024 19:16	WG2262919
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 19:16	WG2262919
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 19:16	WG2262919
Copper,Dissolved	U		0.00151	0.00500	1	04/15/2024 19:16	WG2262919
Cobalt,Dissolved	0.0000981	J	0.0000596	0.00200	1	04/15/2024 19:16	WG2262919
Iron,Dissolved	1.58		0.0281	0.100	1	04/15/2024 19:16	WG2262919
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 19:16	WG2262919
Manganese,Dissolved	0.873		0.000704	0.00500	1	04/15/2024 19:16	WG2262919
Molybdenum,Dissolved	0.00230	J	0.000348	0.00500	1	04/15/2024 19:16	WG2262919
Nickel,Dissolved	0.00101	J	0.000816	0.00200	1	04/15/2024 19:16	WG2262919
Selenium,Dissolved	U		0.000300	0.00200	1	04/15/2024 19:16	WG2262919
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 19:16	WG2262919
Uranium,Dissolved	0.0598		0.0000700	0.0200	1	04/15/2024 19:16	WG2262919
Zinc,Dissolved	U		0.00302	0.0250	1	04/15/2024 19:16	WG2262919

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0532	B J	0.0314	0.100	1	04/12/2024 04:56	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*90.7*			*78.0-120*		*04/12/2024 04:56*	WG2265329

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 02:26	WG2262003
Benzene	0.000172	J	0.0000941	0.00100	1	04/07/2024 02:26	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 02:26	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 02:26	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 02:26	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 02:26	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 02:26	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 02:26	WG2262003

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 02:26	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 02:26	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 02:26	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 02:26	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 02:26	WG2262003
Chloroform	U		0.000111	0.00500	1	04/07/2024 02:26	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 02:26	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 02:26	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 02:26	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 02:26	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 02:26	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 02:26	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 02:26	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 02:26	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 02:26	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 02:26	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 02:26	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 02:26	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 02:26	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 02:26	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 02:26	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 02:26	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 02:26	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 02:26	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 02:26	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 02:26	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 02:26	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 02:26	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 02:26	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 02:26	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 02:26	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 02:26	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 02:26	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 02:26	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 02:26	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 02:26	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 02:26	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 02:26	WG2262003
(S) Toluene-d8	*104*			*80.0-120*		*04/07/2024 02:26*	WG2262003
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*04/07/2024 02:26*	WG2262003
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*04/07/2024 02:26*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0919	J	0.0247	0.100	1	04/15/2024 18:33	WG2265501
(S) o-Terphenyl	*105*			*52.0-156*		*04/15/2024 18:33*	WG2265501

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	04/16/2024 05:58	WG2263770
Acenaphthylene	U		0.0000921	0.00100	1	04/16/2024 05:58	WG2263770
Acetophenone	U		0.000208	0.0100	1	04/16/2024 05:58	WG2263770
Anthracene	U		0.0000804	0.00100	1	04/16/2024 05:58	WG2263770

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Atrazine	U		0.000255	0.0100	1	04/16/2024 05:58	WG2263770
Benzo(a)anthracene	U		0.000199	0.00100	1	04/16/2024 05:58	WG2263770
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	04/16/2024 05:58	WG2263770
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/16/2024 05:58	WG2263770
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/16/2024 05:58	WG2263770
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/16/2024 05:58	WG2263770
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/16/2024 05:58	WG2263770
Biphenyl	U		0.000790	0.0100	1	04/16/2024 05:58	WG2263770
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	04/16/2024 05:58	WG2263770
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	04/16/2024 05:58	WG2263770
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	04/16/2024 05:58	WG2263770
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/16/2024 05:58	WG2263770
2-Chloronaphthalene	U		0.0000648	0.00100	1	04/16/2024 05:58	WG2263770
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	04/16/2024 05:58	WG2263770
Caprolactam	U		0.000309	0.0100	1	04/16/2024 05:58	WG2263770
Carbazole	U		0.000111	0.0100	1	04/16/2024 05:58	WG2263770
Chrysene	U		0.000130	0.00100	1	04/16/2024 05:58	WG2263770
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/16/2024 05:58	WG2263770
Dibenzofuran	U		0.0000970	0.0100	1	04/16/2024 05:58	WG2263770
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/16/2024 05:58	WG2263770
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/16/2024 05:58	WG2263770
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/16/2024 05:58	WG2263770
Fluoranthene	U		0.000102	0.00100	1	04/16/2024 05:58	WG2263770
Fluorene	U		0.0000844	0.00100	1	04/16/2024 05:58	WG2263770
Hexachlorobenzene	U		0.0000755	0.00100	1	04/16/2024 05:58	WG2263770
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	04/16/2024 05:58	WG2263770
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	04/16/2024 05:58	WG2263770
Hexachloroethane	U		0.000127	0.0100	1	04/16/2024 05:58	WG2263770
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/16/2024 05:58	WG2263770
Isophorone	U		0.000143	0.0100	1	04/16/2024 05:58	WG2263770
1-Methylnaphthalene	U		0.0000790	0.00100	1	04/16/2024 05:58	WG2263770
2-Methylnaphthalene	U		0.000117	0.00100	1	04/16/2024 05:58	WG2263770
Naphthalene	U		0.000159	0.00100	1	04/16/2024 05:58	WG2263770
Nitrobenzene	U		0.000297	0.0100	1	04/16/2024 05:58	WG2263770
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/16/2024 05:58	WG2263770
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	04/16/2024 05:58	WG2263770
Phenanthrene	U		0.000112	0.00100	1	04/16/2024 05:58	WG2263770
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/16/2024 05:58	WG2263770
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/16/2024 05:58	WG2263770
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/16/2024 05:58	WG2263770
Diethyl phthalate	U		0.000287	0.00300	1	04/16/2024 05:58	WG2263770
Dimethyl phthalate	U		0.000260	0.00300	1	04/16/2024 05:58	WG2263770
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/16/2024 05:58	WG2263770
Pyrene	U		0.000107	0.00100	1	04/16/2024 05:58	WG2263770
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	04/16/2024 05:58	WG2263770
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	04/16/2024 05:58	WG2263770
2-Chlorophenol	U		0.000133	0.0100	1	04/16/2024 05:58	WG2263770
2,4-Dichlorophenol	U		0.000102	0.0100	1	04/16/2024 05:58	WG2263770
2,4-Dimethylphenol	U		0.0000636	0.0100	1	04/16/2024 05:58	WG2263770
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/16/2024 05:58	WG2263770
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/16/2024 05:58	WG2263770
2-Nitrophenol	U		0.000117	0.0100	1	04/16/2024 05:58	WG2263770
2-Nitroaniline	U		0.000102	0.0100	1	04/16/2024 05:58	WG2263770
2-Methylphenol	U		0.0000929	0.0100	1	04/16/2024 05:58	WG2263770
3&4-Methyl Phenol	U		0.000168	0.0100	1	04/16/2024 05:58	WG2263770
3-Nitroaniline	U		0.0000869	0.0100	1	04/16/2024 05:58	WG2263770

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
4-Chloroaniline	U		0.000234	0.0100	1	04/16/2024 05:58	WG2263770
4-Nitroaniline	U		0.0000910	0.0100	1	04/16/2024 05:58	WG2263770
4-Nitrophenol	U		0.000143	0.0100	1	04/16/2024 05:58	WG2263770
Pentachlorophenol	U		0.000313	0.0100	1	04/16/2024 05:58	WG2263770
Phenol	U		0.00433	0.0100	1	04/16/2024 05:58	WG2263770
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	04/16/2024 05:58	WG2263770
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	04/16/2024 05:58	WG2263770
(S) 2-Fluorophenol	*43.6*			*10.0-120*		*04/16/2024 05:58*	WG2263770
(S) Phenol-d5	*28.4*			*10.0-120*		*04/16/2024 05:58*	WG2263770
(S) Nitrobenzene-d5	*65.1*			*10.0-127*		*04/16/2024 05:58*	WG2263770
(S) 2-Fluorobiphenyl	*74.9*			*10.0-130*		*04/16/2024 05:58*	WG2263770
(S) 2,4,6-Tribromophenol	*89.5*			*10.0-155*		*04/16/2024 05:58*	WG2263770
(S) p-Terphenyl-d14	*84.9*			*10.0-128*		*04/16/2024 05:58*	WG2263770

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.835	J	0.379	1.00	1	04/12/2024 15:20	WG2263160
Fluoride	0.112	B J	0.0640	0.150	1	04/12/2024 15:20	WG2263160
Nitrate	U	Q	0.0480	0.100	1	04/17/2024 03:41	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 03:41	WG2261457
Sulfate	3.34	J	0.594	5.00	1	04/12/2024 15:20	WG2263160

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/09/2024 10:25	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.0457	J	0.0200	0.200	1	04/09/2024 10:18	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 22:13	WG2262982
Arsenic,Dissolved	U		0.000180	0.00200	1	04/15/2024 22:13	WG2262982
Barium,Dissolved	0.00193	B J	0.000381	0.00200	1	04/15/2024 22:13	WG2262982
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 22:13	WG2262982
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 22:13	WG2262982
Copper,Dissolved	U		0.00151	0.00500	1	04/15/2024 22:13	WG2262982
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 22:13	WG2262982
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 22:13	WG2262982
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 22:13	WG2262982
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 22:13	WG2262982
Molybdenum,Dissolved	U		0.000348	0.00500	1	04/15/2024 22:13	WG2262982
Nickel,Dissolved	U		0.000816	0.00200	1	04/15/2024 22:13	WG2262982
Selenium,Dissolved	U		0.000300	0.00200	1	04/15/2024 22:13	WG2262982
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 22:13	WG2262982
Uranium,Dissolved	U		0.0000700	0.0200	1	04/15/2024 22:13	WG2262982
Zinc,Dissolved	U		0.00302	0.0250	1	04/15/2024 22:13	WG2262982

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0369	B J	0.0314	0.100	1	04/12/2024 01:30	WG2265329
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*04/12/2024 01:30*	WG2265329

EB-01
Collected date/time: 04/04/24 11:10
L1722760

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/07/2024 04:01	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 04:01	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 04:01	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 04:01	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 04:01	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 04:01	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 04:01	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 04:01	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 04:01	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 04:01	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 04:01	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 04:01	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 04:01	WG2262003
Chloroform	0.00126	J	0.000111	0.00500	1	04/07/2024 04:01	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 04:01	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 04:01	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 04:01	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 04:01	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 04:01	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 04:01	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 04:01	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 04:01	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 04:01	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 04:01	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 04:01	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 04:01	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 04:01	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 04:01	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 04:01	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 04:01	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 04:01	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 04:01	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 04:01	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 04:01	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 04:01	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 04:01	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 04:01	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 04:01	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 04:01	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 04:01	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 04:01	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 04:01	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 04:01	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 04:01	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 04:01	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 04:01	WG2262003
(S) Toluene-d8	*103*			*80.0-120*		*04/07/2024 04:01*	WG2262003
(S) 4-Bromofluorobenzene	*99.4*			*77.0-126*		*04/07/2024 04:01*	WG2262003
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*04/07/2024 04:01*	WG2262003

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/15/2024 00:31	WG2265501
(S) o-Terphenyl	*80.5*			*52.0-156*		*04/15/2024 00:31*	WG2265501

LB-01
Collected date/time: 04/04/24 11:10
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U	J3	0.0000886	0.00100	1	04/15/2024 13:02	WG2264600
Acenaphthylene	U	J3	0.0000921	0.00100	1	04/15/2024 13:02	WG2264600
Acetophenone	U	J3	0.000208	0.0100	1	04/15/2024 13:02	WG2264600
Anthracene	U		0.0000804	0.00100	1	04/15/2024 13:02	WG2264600
Atrazine	U		0.000255	0.0100	1	04/15/2024 13:02	WG2264600
Benzo(a)anthracene	U		0.000199	0.00100	1	04/15/2024 13:02	WG2264600
Benzaldehyde	U	C6 J3 J4	0.00169	0.0100	1	04/15/2024 13:02	WG2264600
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/15/2024 13:02	WG2264600
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/15/2024 13:02	WG2264600
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/15/2024 13:02	WG2264600
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/15/2024 13:02	WG2264600
Biphenyl	U	J3	0.000790	0.0100	1	04/15/2024 13:02	WG2264600
Bis(2-chlorethoxy)methane	U	J3	0.000116	0.0100	1	04/15/2024 13:02	WG2264600
Bis(2-chloroethyl)ether	U	J3	0.000137	0.0100	1	04/15/2024 13:02	WG2264600
2,2-Oxybis(1-Chloropropane)	U	J3	0.000210	0.0100	1	04/15/2024 13:02	WG2264600
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/15/2024 13:02	WG2264600
2-Chloronaphthalene	U	J3	0.0000648	0.00100	1	04/15/2024 13:02	WG2264600
4-Chlorophenyl-phenylether	U	J3	0.0000926	0.0100	1	04/15/2024 13:02	WG2264600
Caprolactam	U		0.000309	0.0100	1	04/15/2024 13:02	WG2264600
Carbazole	U		0.000111	0.0100	1	04/15/2024 13:02	WG2264600
Chrysene	U		0.000130	0.00100	1	04/15/2024 13:02	WG2264600
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/15/2024 13:02	WG2264600
Dibenzofuran	U	J3	0.0000970	0.0100	1	04/15/2024 13:02	WG2264600
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/15/2024 13:02	WG2264600
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/15/2024 13:02	WG2264600
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/15/2024 13:02	WG2264600
Fluoranthene	U		0.000102	0.00100	1	04/15/2024 13:02	WG2264600
Fluorene	U	J3	0.0000844	0.00100	1	04/15/2024 13:02	WG2264600
Hexachlorobenzene	U		0.0000755	0.00100	1	04/15/2024 13:02	WG2264600
Hexachloro-1,3-butadiene	U	J3	0.0000968	0.0100	1	04/15/2024 13:02	WG2264600
Hexachlorocyclopentadiene	U	J3	0.0000598	0.0100	1	04/15/2024 13:02	WG2264600
Hexachloroethane	U	J3	0.000127	0.0100	1	04/15/2024 13:02	WG2264600
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/15/2024 13:02	WG2264600
Isophorone	U	J3	0.000143	0.0100	1	04/15/2024 13:02	WG2264600
1-Methylnaphthalene	U	J3	0.0000790	0.00100	1	04/15/2024 13:02	WG2264600
2-Methylnaphthalene	U	J3	0.000117	0.00100	1	04/15/2024 13:02	WG2264600
Naphthalene	U	J3	0.000159	0.00100	1	04/15/2024 13:02	WG2264600
Nitrobenzene	U	J3	0.000297	0.0100	1	04/15/2024 13:02	WG2264600
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/15/2024 13:02	WG2264600
n-Nitrosodi-n-propylamine	U	J3	0.000261	0.0100	1	04/15/2024 13:02	WG2264600
Phenanthrene	U		0.000112	0.00100	1	04/15/2024 13:02	WG2264600
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/15/2024 13:02	WG2264600
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/15/2024 13:02	WG2264600
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/15/2024 13:02	WG2264600
Diethyl phthalate	U		0.000287	0.00300	1	04/15/2024 13:02	WG2264600
Dimethyl phthalate	U		0.000260	0.00300	1	04/15/2024 13:02	WG2264600
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/15/2024 13:02	WG2264600
Pyrene	U		0.000107	0.00100	1	04/15/2024 13:02	WG2264600
1,2,4-Trichlorobenzene	U	J3	0.0000698	0.0100	1	04/15/2024 13:02	WG2264600
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	04/15/2024 13:02	WG2264600
2-Chlorophenol	U	J3	0.000133	0.0100	1	04/15/2024 13:02	WG2264600
2,4-Dichlorophenol	U	J3	0.000102	0.0100	1	04/15/2024 13:02	WG2264600
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	04/15/2024 13:02	WG2264600
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/15/2024 13:02	WG2264600
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/15/2024 13:02	WG2264600
2-Nitrophenol	U	J3	0.000117	0.0100	1	04/15/2024 13:02	WG2264600

LB-01
Collected date/time: 04/04/24 11:10
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	04/15/2024 13:02	WG2264600
2-Methylphenol	U	J3	0.0000929	0.0100	1	04/15/2024 13:02	WG2264600
3&4-Methyl Phenol	U	J3	0.000168	0.0100	1	04/15/2024 13:02	WG2264600
3-Nitroaniline	U		0.0000869	0.0100	1	04/15/2024 13:02	WG2264600
4-Chloroaniline	U		0.000234	0.0100	1	04/15/2024 13:02	WG2264600
4-Nitroaniline	U		0.0000910	0.0100	1	04/15/2024 13:02	WG2264600
4-Nitrophenol	U		0.000143	0.0100	1	04/15/2024 13:02	WG2264600
Pentachlorophenol	U		0.000313	0.0100	1	04/15/2024 13:02	WG2264600
Phenol	0.00441	J J3	0.00433	0.0100	1	04/15/2024 13:02	WG2264600
2,4,5-Trichlorophenol	U	J3	0.000109	0.0100	1	04/15/2024 13:02	WG2264600
2,4,6-Trichlorophenol	U	J3	0.000100	0.0100	1	04/15/2024 13:02	WG2264600
(S) 2-Fluorophenol	*29.1*			*10.0-120*		*04/15/2024 13:02*	WG2264600
(S) Phenol-d5	*21.3*			*10.0-120*		*04/15/2024 13:02*	WG2264600
(S) Nitrobenzene-d5	*50.5*			*10.0-127*		*04/15/2024 13:02*	WG2264600
(S) 2-Fluorobiphenyl	*61.3*			*10.0-130*		*04/15/2024 13:02*	WG2264600
(S) 2,4,6-Tribromophenol	*75.3*			*10.0-155*		*04/15/2024 13:02*	WG2264600
(S) p-Terphenyl-d14	*83.5*			*10.0-128*		*04/15/2024 13:02*	WG2264600

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	ND		10.0	1	04/11/2024 14:01	WG2264473

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.730	J	0.379	1.00	1	04/12/2024 15:33	WG2263160
Fluoride	0.0985	B J	0.0640	0.150	1	04/12/2024 15:33	WG2263160
Nitrate	U	Q	0.0480	0.100	1	04/17/2024 03:53	WG2261457
Nitrite	U	Q	0.0420	0.100	1	04/17/2024 03:53	WG2261457
Sulfate	U		0.594	5.00	1	04/12/2024 15:33	WG2263160

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/09/2024 10:27	WG2261624

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.0520	J	0.0200	0.200	1	04/09/2024 10:22	WG2262892

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	04/15/2024 21:11	WG2262982
Arsenic,Dissolved	U		0.000180	0.00200	1	04/15/2024 21:11	WG2262982
Barium,Dissolved	0.000921	B J	0.000381	0.00200	1	04/15/2024 21:11	WG2262982
Cadmium,Dissolved	U		0.000150	0.00100	1	04/15/2024 21:11	WG2262982
Chromium,Dissolved	U		0.00124	0.00200	1	04/15/2024 21:11	WG2262982
Copper,Dissolved	U		0.00151	0.00500	1	04/15/2024 21:11	WG2262982
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/15/2024 21:11	WG2262982
Iron,Dissolved	U		0.0281	0.100	1	04/15/2024 21:11	WG2262982
Lead,Dissolved	U		0.000849	0.00200	1	04/15/2024 21:11	WG2262982
Manganese,Dissolved	U		0.000704	0.00500	1	04/15/2024 21:11	WG2262982
Molybdenum,Dissolved	U		0.000348	0.00500	1	04/15/2024 21:11	WG2262982
Nickel,Dissolved	U		0.000816	0.00200	1	04/15/2024 21:11	WG2262982
Selenium,Dissolved	U		0.000300	0.00200	1	04/15/2024 21:11	WG2262982
Silver,Dissolved	U		0.0000700	0.00200	1	04/15/2024 21:11	WG2262982
Uranium,Dissolved	U		0.0000700	0.0200	1	04/15/2024 21:11	WG2262982
Zinc,Dissolved	U		0.00302	0.0250	1	04/15/2024 21:11	WG2262982

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/07/2024 03:42	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 03:42	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 03:42	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 03:42	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 03:42	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 03:42	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 03:42	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 03:42	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 03:42	WG2262003

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 03:42	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 03:42	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 03:42	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 03:42	WG2262003
Chloroform	0.00156	J	0.000111	0.00500	1	04/07/2024 03:42	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 03:42	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 03:42	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 03:42	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 03:42	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 03:42	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 03:42	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 03:42	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 03:42	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 03:42	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 03:42	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 03:42	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 03:42	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 03:42	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 03:42	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 03:42	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 03:42	WG2262003
Methylene Chloride	U		0.000430	0.00500	1	04/07/2024 03:42	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 03:42	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 03:42	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 03:42	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 03:42	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 03:42	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 03:42	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 03:42	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 03:42	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 03:42	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 03:42	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 03:42	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 03:42	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 03:42	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 03:42	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 03:42	WG2262003
(S) Toluene-d8	*106*			*80.0-120*		*04/07/2024 03:42*	WG2262003
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*04/07/2024 03:42*	WG2262003
(S) 1,2-Dichloroethane-d4	*97.3*			*70.0-130*		*04/07/2024 03:42*	WG2262003

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U	J3	0.0000886	0.00100	1	04/15/2024 13:24	WG2264600
Acenaphthylene	U	J3	0.0000921	0.00100	1	04/15/2024 13:24	WG2264600
Acetophenone	U	J3	0.000208	0.0100	1	04/15/2024 13:24	WG2264600
Anthracene	U		0.0000804	0.00100	1	04/15/2024 13:24	WG2264600
Atrazine	U		0.000255	0.0100	1	04/15/2024 13:24	WG2264600
Benzo(a)anthracene	U		0.000199	0.00100	1	04/15/2024 13:24	WG2264600
Benzaldehyde	U	C6 J3 J4	0.00169	0.0100	1	04/15/2024 13:24	WG2264600
Benzo(b)fluoranthene	U		0.000130	0.00100	1	04/15/2024 13:24	WG2264600
Benzo(k)fluoranthene	U		0.000120	0.00100	1	04/15/2024 13:24	WG2264600
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	04/15/2024 13:24	WG2264600
Benzo(a)pyrene	U		0.0000381	0.000200	1	04/15/2024 13:24	WG2264600
Biphenyl	U	J3	0.000790	0.0100	1	04/15/2024 13:24	WG2264600

LB-02
Collected date/time: 04/04/24 08:25
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Bis(2-chlorethoxy)methane	U	J3	0.000116	0.0100	1	04/15/2024 13:24	WG2264600
Bis(2-chloroethyl)ether	U	J3	0.000137	0.0100	1	04/15/2024 13:24	WG2264600
2,2-Oxybis(1-Chloropropane)	U	J3	0.000210	0.0100	1	04/15/2024 13:24	WG2264600
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	04/15/2024 13:24	WG2264600
2-Chloronaphthalene	U	J3	0.0000648	0.00100	1	04/15/2024 13:24	WG2264600
4-Chlorophenyl-phenylether	U	J3	0.0000926	0.0100	1	04/15/2024 13:24	WG2264600
Caprolactam	U		0.000309	0.0100	1	04/15/2024 13:24	WG2264600
Carbazole	U		0.000111	0.0100	1	04/15/2024 13:24	WG2264600
Chrysene	U		0.000130	0.00100	1	04/15/2024 13:24	WG2264600
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	04/15/2024 13:24	WG2264600
Dibenzofuran	U	J3	0.0000970	0.0100	1	04/15/2024 13:24	WG2264600
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	04/15/2024 13:24	WG2264600
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	04/15/2024 13:24	WG2264600
2,6-Dinitrotoluene	U		0.000250	0.0100	1	04/15/2024 13:24	WG2264600
Fluoranthene	U		0.000102	0.00100	1	04/15/2024 13:24	WG2264600
Fluorene	U	J3	0.0000844	0.00100	1	04/15/2024 13:24	WG2264600
Hexachlorobenzene	U		0.0000755	0.00100	1	04/15/2024 13:24	WG2264600
Hexachloro-1,3-butadiene	U	J3	0.0000968	0.0100	1	04/15/2024 13:24	WG2264600
Hexachlorocyclopentadiene	U	J3	0.0000598	0.0100	1	04/15/2024 13:24	WG2264600
Hexachloroethane	U	J3	0.000127	0.0100	1	04/15/2024 13:24	WG2264600
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	04/15/2024 13:24	WG2264600
Isophorone	U	J3	0.000143	0.0100	1	04/15/2024 13:24	WG2264600
1-Methylnaphthalene	U	J3	0.0000790	0.00100	1	04/15/2024 13:24	WG2264600
2-Methylnaphthalene	U	J3	0.000117	0.00100	1	04/15/2024 13:24	WG2264600
Naphthalene	U	J3	0.000159	0.00100	1	04/15/2024 13:24	WG2264600
Nitrobenzene	U	J3	0.000297	0.0100	1	04/15/2024 13:24	WG2264600
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	04/15/2024 13:24	WG2264600
n-Nitrosodi-n-propylamine	U	J3	0.000261	0.0100	1	04/15/2024 13:24	WG2264600
Phenanthrene	U		0.000112	0.00100	1	04/15/2024 13:24	WG2264600
Benzylbutyl phthalate	U		0.000765	0.00300	1	04/15/2024 13:24	WG2264600
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	04/15/2024 13:24	WG2264600
Di-n-butyl phthalate	U		0.000453	0.00300	1	04/15/2024 13:24	WG2264600
Diethyl phthalate	U		0.000287	0.00300	1	04/15/2024 13:24	WG2264600
Dimethyl phthalate	U		0.000260	0.00300	1	04/15/2024 13:24	WG2264600
Di-n-octyl phthalate	U		0.000932	0.00300	1	04/15/2024 13:24	WG2264600
Pyrene	U		0.000107	0.00100	1	04/15/2024 13:24	WG2264600
1,2,4-Trichlorobenzene	U	J3	0.0000698	0.0100	1	04/15/2024 13:24	WG2264600
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	04/15/2024 13:24	WG2264600
2-Chlorophenol	U	J3	0.000133	0.0100	1	04/15/2024 13:24	WG2264600
2,4-Dichlorophenol	U	J3	0.000102	0.0100	1	04/15/2024 13:24	WG2264600
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	04/15/2024 13:24	WG2264600
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	04/15/2024 13:24	WG2264600
2,4-Dinitrophenol	U		0.00593	0.0100	1	04/15/2024 13:24	WG2264600
2-Nitrophenol	U	J3	0.000117	0.0100	1	04/15/2024 13:24	WG2264600
2-Nitroaniline	U		0.000102	0.0100	1	04/15/2024 13:24	WG2264600
2-Methylphenol	U	J3	0.0000929	0.0100	1	04/15/2024 13:24	WG2264600
3&4-Methyl Phenol	U	J3	0.000168	0.0100	1	04/15/2024 13:24	WG2264600
3-Nitroaniline	U		0.0000869	0.0100	1	04/15/2024 13:24	WG2264600
4-Chloroaniline	U		0.000234	0.0100	1	04/15/2024 13:24	WG2264600
4-Nitroaniline	U		0.0000910	0.0100	1	04/15/2024 13:24	WG2264600
4-Nitrophenol	U		0.000143	0.0100	1	04/15/2024 13:24	WG2264600
Pentachlorophenol	U		0.000313	0.0100	1	04/15/2024 13:24	WG2264600
Phenol	U	J3	0.00433	0.0100	1	04/15/2024 13:24	WG2264600
2,4,5-Trichlorophenol	U	J3	0.000109	0.0100	1	04/15/2024 13:24	WG2264600
2,4,6-Trichlorophenol	U	J3	0.000100	0.0100	1	04/15/2024 13:24	WG2264600
(S) 2-Fluorophenol	*37.5*			*10.0-120*		*04/15/2024 13:24*	WG2264600

EB-02
Collected date/time: 04/04/24 08:25
L1722760

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Phenol-d5	*25.4*			*10.0-120*		*04/15/2024 13:24*	WG2264600
(S) Nitrobenzene-d5	*47.9*			*10.0-127*		*04/15/2024 13:24*	WG2264600
(S) 2-Fluorobiphenyl	*68.3*			*10.0-130*		*04/15/2024 13:24*	WG2264600
(S) 2,4,6-Tribromophenol	*74.5*			*10.0-155*		*04/15/2024 13:24*	WG2264600
(S) p-Terphenyl-d14	*82.6*			*10.0-128*		*04/15/2024 13:24*	WG2264600

TRIP BLANK-01
Collected date/time: 04/04/24 00:00
L1722760

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/07/2024 03:23	WG2262003
Benzene	U		0.0000941	0.00100	1	04/07/2024 03:23	WG2262003
Bromodichloromethane	U		0.000136	0.00100	1	04/07/2024 03:23	WG2262003
Bromoform	U		0.000129	0.00100	1	04/07/2024 03:23	WG2262003
Bromomethane	U		0.000605	0.00500	1	04/07/2024 03:23	WG2262003
n-Butylbenzene	U		0.000157	0.00100	1	04/07/2024 03:23	WG2262003
sec-Butylbenzene	U		0.000125	0.00100	1	04/07/2024 03:23	WG2262003
tert-Butylbenzene	U		0.000127	0.00100	1	04/07/2024 03:23	WG2262003
Carbon disulfide	U		0.0000962	0.00100	1	04/07/2024 03:23	WG2262003
Carbon tetrachloride	U		0.000128	0.00100	1	04/07/2024 03:23	WG2262003
Chlorobenzene	U		0.000116	0.00100	1	04/07/2024 03:23	WG2262003
Chlorodibromomethane	U		0.000140	0.00100	1	04/07/2024 03:23	WG2262003
Chloroethane	U		0.000192	0.00500	1	04/07/2024 03:23	WG2262003
Chloroform	U		0.000111	0.00500	1	04/07/2024 03:23	WG2262003
Chloromethane	U		0.000960	0.00250	1	04/07/2024 03:23	WG2262003
1,2-Dibromoethane	U		0.000126	0.00100	1	04/07/2024 03:23	WG2262003
1,1-Dichloroethane	U		0.000100	0.00100	1	04/07/2024 03:23	WG2262003
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/07/2024 03:23	WG2262003
1,1-Dichloroethene	U		0.000188	0.00100	1	04/07/2024 03:23	WG2262003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/07/2024 03:23	WG2262003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/07/2024 03:23	WG2262003
1,2-Dichloropropane	U		0.000149	0.00100	1	04/07/2024 03:23	WG2262003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/07/2024 03:23	WG2262003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/07/2024 03:23	WG2262003
Ethylbenzene	U		0.000137	0.00100	1	04/07/2024 03:23	WG2262003
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	04/07/2024 03:23	WG2262003
2-Hexanone	U		0.000787	0.0100	1	04/07/2024 03:23	WG2262003
Isopropylbenzene	U		0.000105	0.00100	1	04/07/2024 03:23	WG2262003
p-Isopropyltoluene	U		0.000120	0.00100	1	04/07/2024 03:23	WG2262003
2-Butanone (MEK)	U		0.00119	0.0100	1	04/07/2024 03:23	WG2262003
Methylene Chloride	0.000430	J	0.000430	0.00500	1	04/07/2024 03:23	WG2262003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/07/2024 03:23	WG2262003
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/07/2024 03:23	WG2262003
Naphthalene	U		0.00100	0.00500	1	04/07/2024 03:23	WG2262003
n-Propylbenzene	U		0.0000993	0.00100	1	04/07/2024 03:23	WG2262003
Styrene	U		0.000118	0.00100	1	04/07/2024 03:23	WG2262003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/07/2024 03:23	WG2262003
Tetrachloroethene	U		0.000300	0.00100	1	04/07/2024 03:23	WG2262003
Toluene	U		0.000278	0.00100	1	04/07/2024 03:23	WG2262003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/07/2024 03:23	WG2262003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/07/2024 03:23	WG2262003
Trichloroethene	U		0.000190	0.00100	1	04/07/2024 03:23	WG2262003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/07/2024 03:23	WG2262003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/07/2024 03:23	WG2262003
Vinyl chloride	U		0.000234	0.00100	1	04/07/2024 03:23	WG2262003
Xylenes, Total	U		0.000174	0.00300	1	04/07/2024 03:23	WG2262003
(S) Toluene-d8	*104*			*80.0-120*		*04/07/2024 03:23*	WG2262003
(S) 4-Bromofluorobenzene	*94.1*			*77.0-126*		*04/07/2024 03:23*	WG2262003
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/07/2024 03:23*	WG2262003

Method Blank (MB)

(MB) R4057356-1 04/11/24 12:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1722270-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1722270-27 04/11/24 12:25 • (DUP) R4057356-3 04/11/24 12:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	479	512	1	6.73		10

L1722270-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1722270-28 04/11/24 12:25 • (DUP) R4057356-4 04/11/24 12:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1450	1510	1	3.55		10

Laboratory Control Sample (LCS)

(LCS) R4057356-2 04/11/24 12:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8670	98.5	85.0-115	

Method Blank (MB)

(MB) R4057368-1 04/11/24 14:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

Method Blank (MB)

(MB) R4089665-1 04/11/24 14:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1722760-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-16 04/11/24 14:01 • (DUP) R4089665-3 04/11/24 14:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	625	661	1	5.60		10

L1722760-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-22 04/11/24 14:01 • (DUP) R4089665-4 04/11/24 14:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	695	713	1	2.65		10

Laboratory Control Sample (LCS)

(LCS) R4057368-2 04/11/24 14:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	0.000	8600	0.000	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R4089665-2 04/11/24 14:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8600	97.7	85.0-115	

Method Blank (MB)

(MB) R4057208-1 04/05/24 15:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.667	J	0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	0.0589	J	0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1722760-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-08 04/06/24 00:29 • (DUP) R4057208-3 04/06/24 00:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	43.3	43.2	1	0.179		15
Fluoride	0.969	0.969	1	0.0310		15
Nitrate	2.26	2.25	1	0.106		15
Nitrite	U	U	1	0.000		15
Sulfate	61.4	61.3	1	0.0722		15

L1722760-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-13 04/06/24 02:27 • (DUP) R4057208-5 04/06/24 03:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	36.4	36.5	1	0.245		15
Fluoride	1.00	1.00	1	0.0700		15
Nitrate	2.08	2.10	1	1.17		15
Nitrite	U	U	1	0.000		15
Sulfate	60.5	60.7	1	0.390		15

Laboratory Control Sample (LCS)

(LCS) R4057208-2 04/05/24 15:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.1	103	80.0-120	
Fluoride	8.00	8.10	101	80.0-120	
Nitrate	8.00	8.18	102	80.0-120	
Nitrite	8.00	8.62	108	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4057208-2 04/05/24 15:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	40.1	100	80.0-120	

L1722760-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1722760-08 04/06/24 00:29 • (MS) R4057208-4 04/06/24 01:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	43.3	79.8	91.3	1	80.0-120	
Fluoride	8.00	0.969	8.92	99.4	1	80.0-120	
Nitrate	8.00	2.26	10.1	98.6	1	80.0-120	
Nitrite	8.00	U	9.53	119	1	80.0-120	
Sulfate	40.0	61.4	96.1	86.8	1	80.0-120	

L1722760-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-13 04/06/24 02:27 • (MS) R4057208-6 04/06/24 03:34 • (MSD) R4057208-7 04/06/24 03:51

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 %
Chloride	40.0	36.4	72.6	72.6	90.4	90.5	1	80.0-120			0.0627	15
Fluoride	8.00	1.00	8.59	8.60	94.8	95.0	1	80.0-120			0.214	15
Nitrate	8.00	2.08	9.70	9.72	95.3	95.5	1	80.0-120			0.163	15
Nitrite	8.00	U	9.15	9.20	114	115	1	80.0-120			0.563	15
Sulfate	40.0	60.5	93.7	93.9	83.0	83.4	1	80.0-120			0.133	15

Method Blank (MB)

(MB) R4058921-1 04/16/24 23:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100

L1722760-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-26 04/17/24 02:38 • (DUP) R4058921-5 04/17/24 02:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	2.76	2.76	1	0.152		15
Nitrite	U	U	1	0.000		15

L1722760-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-31 04/17/24 03:53 • (DUP) R4058921-6 04/17/24 04:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4058921-2 04/17/24 00:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate	8.00	7.64	95.4	80.0-120	
Nitrite	8.00	7.84	98.0	80.0-120	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/17/24 01:10 • (MS) R4058921-3 04/17/24 01:22 • (MSD) R4058921-4 04/17/24 01:35

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 %
Nitrate	8.00	U	7.52	7.65	94.0	95.6	1	80.0-120			1.72	15
Nitrite	8.00	U	7.85	7.92	98.1	99.0	1	80.0-120			0.890	15

L1722760-31 Original Sample (OS) • Matrix Spike (MS)

(OS) L1722760-31 04/17/24 03:53 • (MS) R4058921-7 04/17/24 04:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	8.00	U	7.60	95.0	1	80.0-120	
Nitrite	8.00	U	7.85	98.1	1	80.0-120	

Method Blank (MB)

(MB) R4059992-1 04/12/24 08:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	0.0872	J	0.0640	0.150
Sulfate	U		0.594	5.00

L1722760-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-23 04/12/24 12:21 • (DUP) R4059992-3 04/12/24 12:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	120	119	1	1.07		15
Fluoride	0.421	0.519	1	20.8	P1	15
Sulfate	2.92	2.87	1	1.78	J	15

L1722770-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1722770-11 04/12/24 18:20 • (DUP) R4059992-6 04/12/24 18:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.80	1.48	1	19.4	P1	15
Fluoride		0.202	1	70.9	P1	15
Sulfate	32.6	29.9	1	8.40		15

Laboratory Control Sample (LCS)

(LCS) R4059992-2 04/12/24 09:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.5	96.3	80.0-120	
Fluoride	8.00	7.87	98.3	80.0-120	
Sulfate	40.0	41.2	103	80.0-120	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/12/24 12:21 • (MS) R4059992-4 04/12/24 12:47 • (MSD) R4059992-5 04/12/24 12:59

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 %
Chloride	40.0	120	135	133	36.8	32.1	1	80.0-120	J6	J6	1.40	15
Fluoride	8.00	0.421	8.60	8.37	102	99.3	1	80.0-120			2.79	15
Sulfate	40.0	2.92	45.7	43.3	107	101	1	80.0-120			5.51	15

Sample Narrative:

MS: Cl spike failed due to sample matrix

MSD: Cl spike failed due to sample matrix

L1722770-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1722770-11 04/12/24 18:20 • (MS) R4059992-7 04/12/24 19:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	1.80	40.4	96.5	1	80.0-120	
Fluoride	8.00		7.04	86.8	1	80.0-120	

Method Blank (MB)

(MB) R4059993-1 04/12/24 19:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.436	J	0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1722760-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-21 04/12/24 21:06 • (DUP) R4059993-3 04/12/24 21:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	21.4	21.3	1	0.246		15
Fluoride	0.410	0.519	1	23.4	P1	15
Sulfate	78.7	77.8	1	1.18		15

L1722835-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1722835-09 04/13/24 03:57 • (DUP) R4059993-6 04/13/24 04:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.09	0.978	1	11.2	J	15
Fluoride	0.296	0.280	1	5.56		15
Sulfate	44.9	41.9	1	6.79		15

Laboratory Control Sample (LCS)

(LCS) R4059993-2 04/12/24 20:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.8	96.9	80.0-120	
Fluoride	8.00	6.79	84.8	80.0-120	
Sulfate	40.0	42.2	105	80.0-120	

L1722760-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-21 04/12/24 21:06 • (MS) R4059993-4 04/12/24 21:32 • (MSD) R4059993-5 04/12/24 21:45

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 %
Chloride	40.0	21.4	56.9	57.4	88.8	90.1	1	80.0-120			0.904	15
Fluoride	8.00	0.410	7.31	8.58	86.3	102	1	80.0-120		J3	16.0	15
Sulfate	40.0	78.7	104	105	62.6	65.1	1	80.0-120	J6	J6	0.968	15

Sample Narrative:

MS: SO4 spike failed due to sample matrix

MSD: F/SO4 spike failed due to sample matrix

L1722835-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1722835-09 04/13/24 03:57 • (MS) R4059993-7 04/13/24 04:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	1.09	40.5	98.4	1	80.0-120	
Fluoride	8.00	0.296	8.17	98.4	1	80.0-120	
Sulfate	40.0	44.9	79.7	87.0	1	80.0-120	

Method Blank (MB)

(MB) R4057857-1 04/13/24 00:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1725252-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1725252-18 04/13/24 02:59 • (DUP) R4057857-3 04/13/24 03:38

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.844	0.854	1	1.07	J	15
Sulfate	9.00	9.20	1	2.12		15

L1722760-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1722760-11 04/13/24 06:11 • (DUP) R4057857-6 04/13/24 06:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	92.8	92.2	1	0.555		15
Sulfate	40.3	40.2	1	0.116		15

Laboratory Control Sample (LCS)

(LCS) R4057857-2 04/13/24 00:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.1	97.8	80.0-120	
Sulfate	40.0	37.7	94.2	80.0-120	

L1725252-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725252-18 04/13/24 02:59 • (MS) R4057857-4 04/13/24 03:50 • (MSD) R4057857-5 04/13/24 04:03

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 %
Chloride	40.0	0.844	39.5	40.0	96.7	98.0	1	80.0-120			1.31	15
Sulfate	40.0	9.00	45.2	45.7	90.5	91.7	1	80.0-120			1.11	15

L1722760-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1722760-11 04/13/24 06:11 • (MS) R4057857-7 04/13/24 06:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	92.8	114	54.2	1	80.0-120	J6
Sulfate	40.0	40.3	71.9	78.9	1	80.0-120	J6

Sample Narrative:

MS: CL/SO4 spike failed due to sample matrix

Method Blank (MB)

(MB) R4055203-1 04/08/24 16:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R4055203-2 04/08/24 16:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00319	106	80.0-120	

L1722557-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722557-01 04/08/24 16:30 • (MS) R4055203-4 04/08/24 16:34 • (MSD) R4055203-5 04/08/24 16:37

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 %
Mercury	0.00300	U	0.00308	0.00313	103	104	1	75.0-125			1.75	20

Method Blank (MB)

(MB) R4055411-1 04/09/24 09:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R4055411-2 04/09/24 09:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00303	101	80.0-120	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/09/24 09:29 • (MS) R4055411-4 04/09/24 09:34 • (MSD) R4055411-5 04/09/24 09:36

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 %
Mercury	0.00300	U	0.000860	0.000851	28.7	28.4	1	75.0-125	J6	J6	1.09	20

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

Method Blank (MB)

(MB) R4055507-1 04/09/24 11:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R4055507-2 04/09/24 11:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.963	96.3	80.0-120	

L1722379-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722379-01 04/09/24 12:01 • (MS) R4055507-4 04/09/24 12:07 • (MSD) R4055507-5 04/09/24 12:09

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 %
Boron,Dissolved	1.00	0.101	1.07	1.07	96.7	96.6	1	75.0-125			0.0127	20

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

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4055532-1 04/09/24 08:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R4055532-2 04/09/24 08:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	1.02	102	80.0-120	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/09/24 08:49 • (MS) R4055532-4 04/09/24 08:56 • (MSD) R4055532-5 04/09/24 08:59

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 %
Boron,Dissolved	1.00	0.166	1.19	1.20	103	104	1	75.0-125			0.567	20

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4056717-1 04/11/24 17:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0185	0.100
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Molybdenum,Dissolved	U		0.000348	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Zinc,Dissolved	U		0.00302	0.0250

Laboratory Control Sample (LCS)

(LCS) R4056717-6 04/11/24 18:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	1.02	102	80.0-120	
Arsenic,Dissolved	0.0500	0.0486	97.1	80.0-120	
Barium,Dissolved	0.0500	0.0491	98.2	80.0-120	
Cadmium,Dissolved	0.0500	0.0502	100	80.0-120	
Chromium,Dissolved	0.0500	0.0489	97.8	80.0-120	
Copper,Dissolved	0.0500	0.0484	96.8	80.0-120	
Cobalt,Dissolved	0.0500	0.0495	99.0	80.0-120	
Iron,Dissolved	1.00	0.990	99.0	80.0-120	
Lead,Dissolved	0.0500	0.0484	96.8	80.0-120	
Manganese,Dissolved	0.0500	0.0486	97.3	80.0-120	
Molybdenum,Dissolved	0.0500	0.0503	101	80.0-120	
Nickel,Dissolved	0.0500	0.0499	99.8	80.0-120	
Selenium,Dissolved	0.0500	0.0494	98.8	80.0-120	
Uranium,Dissolved	0.0500	0.0464	92.7	80.0-120	
Zinc,Dissolved	0.0500	0.0475	95.1	80.0-120	

L1722296-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722296-12 04/11/24 17:21 • (MS) R4056717-4 04/11/24 17:27 • (MSD) R4056717-5 04/11/24 17:31

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 %
Aluminum,Dissolved	1.00	0.868	1.81	1.81	93.9	94.4	5	75.0-125			0.249	20
Arsenic,Dissolved	0.0500	0.00150	0.0521	0.0522	101	101	5	75.0-125			0.293	20
Barium,Dissolved	0.0500	0.00481	0.0559	0.0576	102	106	5	75.0-125			3.04	20
Cadmium,Dissolved	0.0500	0.00415	0.0551	0.0554	102	102	5	75.0-125			0.530	20
Chromium,Dissolved	0.0500	U	0.0522	0.0514	104	103	5	75.0-125			1.57	20
Copper,Dissolved	0.0500	0.0601	0.108	0.108	96.7	96.0	5	75.0-125			0.291	20
Cobalt,Dissolved	0.0500	0.132	0.175	0.175	86.4	87.1	5	75.0-125			0.204	20
Iron,Dissolved	1.00	U	1.03	1.04	103	104	5	75.0-125			0.756	20
Lead,Dissolved	0.0500	U	0.0524	0.0514	105	103	5	75.0-125			1.97	20
Manganese,Dissolved	0.0500	2.91	2.82	2.88	0.000	0.000	5	75.0-125	V	V	2.06	20
Molybdenum,Dissolved	0.0500	U	0.0537	0.0556	107	111	5	75.0-125			3.48	20
Nickel,Dissolved	0.0500	0.398	0.425	0.427	53.3	57.8	5	75.0-125	V	V	0.526	20
Selenium,Dissolved	0.0500	0.322	0.372	0.375	100	107	5	75.0-125			0.887	20
Uranium,Dissolved	0.0500	0.000628	0.0519	0.0515	102	102	5	75.0-125			0.786	20
Zinc,Dissolved	0.0500	0.401	0.428	0.425	54.6	47.8	5	75.0-125	V	V	0.803	20

Method Blank (MB)

(MB) R4057940-1 04/15/24 17:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0185	0.100
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Molybdenum,Dissolved	U		0.000348	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Silver,Dissolved	U		0.0000700	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Zinc,Dissolved	U		0.00302	0.0250

Laboratory Control Sample (LCS)

(LCS) R4057940-2 04/15/24 17:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	1.09	109	80.0-120	
Arsenic,Dissolved	0.0500	0.0551	110	80.0-120	
Barium,Dissolved	0.0500	0.0508	102	80.0-120	
Cadmium,Dissolved	0.0500	0.0575	115	80.0-120	
Chromium,Dissolved	0.0500	0.0574	115	80.0-120	
Copper,Dissolved	0.0500	0.0555	111	80.0-120	
Cobalt,Dissolved	0.0500	0.0569	114	80.0-120	
Iron,Dissolved	1.00	1.12	112	80.0-120	
Lead,Dissolved	0.0500	0.0577	115	80.0-120	
Manganese,Dissolved	0.0500	0.0548	110	80.0-120	
Molybdenum,Dissolved	0.0500	0.0532	106	80.0-120	
Nickel,Dissolved	0.0500	0.0576	115	80.0-120	
Selenium,Dissolved	0.0500	0.0563	113	80.0-120	
Silver,Dissolved	0.0500	0.0542	108	80.0-120	
Uranium,Dissolved	0.0500	0.0563	113	80.0-120	
Zinc,Dissolved	0.0500	0.0546	109	80.0-120	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/15/24 17:47 • (MS) R4057940-4 04/15/24 17:54 • (MSD) R4057940-5 04/15/24 17:57

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 %
Aluminum,Dissolved	1.00	U	1.06	1.05	106	105	1	75.0-125			0.779	20
Arsenic,Dissolved	0.0500	0.00402	0.0589	0.0584	110	109	1	75.0-125			0.757	20
Barium,Dissolved	0.0500	0.717	0.775	0.783	115	130	1	75.0-125		V	0.985	20
Cadmium,Dissolved	0.0500	U	0.0576	0.0611	115	122	1	75.0-125			5.98	20
Chromium,Dissolved	0.0500	U	0.0559	0.0548	112	110	1	75.0-125			1.99	20
Copper,Dissolved	0.0500	U	0.0563	0.0543	113	109	1	75.0-125			3.63	20
Cobalt,Dissolved	0.0500	0.0000959	0.0566	0.0549	113	110	1	75.0-125			2.95	20
Iron,Dissolved	1.00	1.59	2.72	2.66	112	107	1	75.0-125			2.13	20
Lead,Dissolved	0.0500	U	0.0566	0.0597	113	119	1	75.0-125			5.36	20
Manganese,Dissolved	0.0500	0.882	0.933	0.921	103	78.9	1	75.0-125			1.30	20
Molybdenum,Dissolved	0.0500	0.00210	0.0592	0.0609	114	118	1	75.0-125			2.81	20
Nickel,Dissolved	0.0500	0.00102	0.0559	0.0544	110	107	1	75.0-125			2.86	20
Selenium,Dissolved	0.0500	U	0.0576	0.0579	115	116	1	75.0-125			0.427	20
Silver,Dissolved	0.0500	U	0.0539	0.0547	108	109	1	75.0-125			1.36	20
Uranium,Dissolved	0.0500	0.0611	0.119	0.122	115	122	1	75.0-125			2.96	20
Zinc,Dissolved	0.0500	U	0.0573	0.0551	115	110	1	75.0-125			3.97	20

Method Blank (MB)

(MB) R4057995-1 04/15/24 21:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0185	0.100
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	0.000922	J	0.000381	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Molybdenum,Dissolved	U		0.000348	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Silver,Dissolved	U		0.0000700	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Zinc,Dissolved	U		0.00302	0.0250

Laboratory Control Sample (LCS)

(LCS) R4057995-2 04/15/24 21:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	0.911	91.1	80.0-120	
Arsenic,Dissolved	0.0500	0.0482	96.3	80.0-120	
Barium,Dissolved	0.0500	0.0464	92.8	80.0-120	
Cadmium,Dissolved	0.0500	0.0485	97.0	80.0-120	
Chromium,Dissolved	0.0500	0.0477	95.4	80.0-120	
Copper,Dissolved	0.0500	0.0481	96.1	80.0-120	
Cobalt,Dissolved	0.0500	0.0482	96.4	80.0-120	
Iron,Dissolved	1.00	0.956	95.6	80.0-120	
Lead,Dissolved	0.0500	0.0475	95.0	80.0-120	
Manganese,Dissolved	0.0500	0.0470	94.0	80.0-120	
Molybdenum,Dissolved	0.0500	0.0468	93.7	80.0-120	
Nickel,Dissolved	0.0500	0.0475	95.1	80.0-120	
Selenium,Dissolved	0.0500	0.0482	96.4	80.0-120	
Silver,Dissolved	0.0500	0.0501	100	80.0-120	
Uranium,Dissolved	0.0500	0.0480	95.9	80.0-120	
Zinc,Dissolved	0.0500	0.0471	94.2	80.0-120	

L1722760-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-31 04/15/24 21:11 • (MS) R4057995-4 04/15/24 21:18 • (MSD) R4057995-5 04/15/24 21:21

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 %
Aluminum,Dissolved	1.00	U	0.942	0.930	94.2	93.0	1	75.0-125			1.26	20
Arsenic,Dissolved	0.0500	U	0.0474	0.0488	94.8	97.6	1	75.0-125			2.97	20
Barium,Dissolved	0.0500	0.000921	0.0471	0.0486	92.4	95.3	1	75.0-125			3.02	20
Cadmium,Dissolved	0.0500	U	0.0492	0.0489	98.4	97.7	1	75.0-125			0.622	20
Chromium,Dissolved	0.0500	U	0.0479	0.0490	95.7	97.9	1	75.0-125			2.26	20
Copper,Dissolved	0.0500	U	0.0483	0.0484	96.6	96.7	1	75.0-125			0.154	20
Cobalt,Dissolved	0.0500	U	0.0488	0.0498	97.6	99.6	1	75.0-125			2.03	20
Iron,Dissolved	1.00	U	0.973	1.04	97.3	104	1	75.0-125			6.54	20
Lead,Dissolved	0.0500	U	0.0462	0.0452	92.5	90.3	1	75.0-125			2.39	20
Manganese,Dissolved	0.0500	U	0.0486	0.0495	97.1	98.9	1	75.0-125			1.82	20
Molybdenum,Dissolved	0.0500	U	0.0466	0.0460	93.1	91.9	1	75.0-125			1.29	20
Nickel,Dissolved	0.0500	U	0.0483	0.0492	96.7	98.3	1	75.0-125			1.68	20
Selenium,Dissolved	0.0500	U	0.0495	0.0497	99.1	99.5	1	75.0-125			0.411	20
Silver,Dissolved	0.0500	U	0.0502	0.0503	100	101	1	75.0-125			0.0986	20
Uranium,Dissolved	0.0500	U	0.0468	0.0456	93.5	91.2	1	75.0-125			2.54	20
Zinc,Dissolved	0.0500	U	0.0457	0.0538	91.4	108	1	75.0-125			16.3	20

Method Blank (MB)

(MB) R4057182-1 04/12/24 17:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver,Dissolved	0.0000806	J	0.0000700	0.00200

Laboratory Control Sample (LCS)

(LCS) R4057182-2 04/12/24 17:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver,Dissolved	0.0500	0.0579	116	80.0-120	

L1722296-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722296-12 04/12/24 17:54 • (MS) R4057182-4 04/12/24 18:00 • (MSD) R4057182-5 04/12/24 18:04

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 %
Silver,Dissolved	0.0500	U	0.0596	0.0611	119	122	5	75.0-125			2.34	20

Method Blank (MB)

(MB) R4057470-2 04/12/24 00:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0372	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*93.2*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R4057470-1 04/11/24 23:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	4.39	87.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*112*	*78.0-120*	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/12/24 02:38 • (MS) R4057470-3 04/12/24 09:08 • (MSD) R4057470-4 04/12/24 09:32

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 %
TPH (GC/FID) Low Fraction	5.00	0.0500	5.21	4.92	103	97.4	1	10.0-160			5.73	22
(S) a,a,a-Trifluorotoluene(FID)					*115*	*114*		*78.0-120*				

Method Blank (MB)

(MB) R4057125-2 04/07/24 15:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	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
1,2-Dibromoethane	U		0.000126	0.00100
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
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
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
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100

Method Blank (MB)

(MB) R4057125-2 04/07/24 15:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	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	*96.9*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4057125-1 04/07/24 14:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0236	94.4	19.0-160	
Benzene	0.00500	0.00490	98.0	70.0-123	
Bromodichloromethane	0.00500	0.00535	107	75.0-120	
Bromoform	0.00500	0.00469	93.8	68.0-132	
Bromomethane	0.00500	0.00551	110	10.0-160	
n-Butylbenzene	0.00500	0.00466	93.2	73.0-125	
sec-Butylbenzene	0.00500	0.00455	91.0	75.0-125	
tert-Butylbenzene	0.00500	0.00446	89.2	76.0-124	
Carbon disulfide	0.00500	0.00497	99.4	61.0-128	
Carbon tetrachloride	0.00500	0.00578	116	68.0-126	
Chlorobenzene	0.00500	0.00437	87.4	80.0-121	
Chlorodibromomethane	0.00500	0.00470	94.0	77.0-125	
Chloroethane	0.00500	0.00543	109	47.0-150	
Chloroform	0.00500	0.00512	102	73.0-120	
Chloromethane	0.00500	0.00532	106	41.0-142	
1,2-Dibromoethane	0.00500	0.00451	90.2	80.0-122	
1,1-Dichloroethane	0.00500	0.00509	102	70.0-126	
1,2-Dichloroethane	0.00500	0.00520	104	70.0-128	
1,1-Dichloroethene	0.00500	0.00553	111	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00483	96.6	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00516	103	73.0-120	
1,2-Dichloropropane	0.00500	0.00493	98.6	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00507	101	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00482	96.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R4057125-1 04/07/24 14:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00463	92.6	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00521	104	54.0-138	
2-Hexanone	0.0250	0.0236	94.4	67.0-149	
Isopropylbenzene	0.00500	0.00502	100	76.0-127	
p-Isopropyltoluene	0.00500	0.00483	96.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0277	111	44.0-160	
Methylene Chloride	0.00500	0.00471	94.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0254	102	68.0-142	
Methyl tert-butyl ether	0.00500	0.00531	106	68.0-125	
Naphthalene	0.00500	0.00464	92.8	54.0-135	
n-Propylbenzene	0.00500	0.00473	94.6	77.0-124	
Styrene	0.00500	0.00452	90.4	73.0-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00425	85.0	65.0-130	
Tetrachloroethene	0.00500	0.00470	94.0	72.0-132	
Toluene	0.00500	0.00433	86.6	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00620	124	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00419	83.8	80.0-120	
Trichloroethene	0.00500	0.00536	107	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00458	91.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00464	92.8	76.0-122	
Vinyl chloride	0.00500	0.00591	118	67.0-131	
Xylenes, Total	0.0150	0.0137	91.3	79.0-123	
(S) Toluene-d8			*93.6*	*80.0-120*	
(S) 4-Bromofluorobenzene			*105*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

Method Blank (MB)

(MB) R4057440-3 04/06/24 22:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	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
1,2-Dibromoethane	U		0.000126	0.00100
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
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
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
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100

Method Blank (MB)

(MB) R4057440-3 04/06/24 22:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	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	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*100*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

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

(LCS) R4057440-1 04/06/24 22:02 • (LCSD) R4057440-2 04/06/24 22:21

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	0.0256	0.0239	102	95.6	19.0-160			6.87	27
Benzene	0.00500	0.00468	0.00433	93.6	86.6	70.0-123			7.77	20
Bromodichloromethane	0.00500	0.00511	0.00480	102	96.0	75.0-120			6.26	20
Bromoform	0.00500	0.00488	0.00482	97.6	96.4	68.0-132			1.24	20
Bromomethane	0.00500	0.00353	0.00345	70.6	69.0	10.0-160			2.29	25
n-Butylbenzene	0.00500	0.00501	0.00487	100	97.4	73.0-125			2.83	20
sec-Butylbenzene	0.00500	0.00491	0.00470	98.2	94.0	75.0-125			4.37	20
tert-Butylbenzene	0.00500	0.00483	0.00466	96.6	93.2	76.0-124			3.58	20
Carbon disulfide	0.00500	0.00475	0.00426	95.0	85.2	61.0-128			10.9	20
Carbon tetrachloride	0.00500	0.00532	0.00485	106	97.0	68.0-126			9.24	20
Chlorobenzene	0.00500	0.00458	0.00443	91.6	88.6	80.0-121			3.33	20
Chlorodibromomethane	0.00500	0.00515	0.00507	103	101	77.0-125			1.57	20
Chloroethane	0.00500	0.00402	0.00378	80.4	75.6	47.0-150			6.15	20
Chloroform	0.00500	0.00465	0.00452	93.0	90.4	73.0-120			2.84	20
Chloromethane	0.00500	0.00394	0.00375	78.8	75.0	41.0-142			4.94	20
1,2-Dibromoethane	0.00500	0.00512	0.00505	102	101	80.0-122			1.38	20
1,1-Dichloroethane	0.00500	0.00506	0.00476	101	95.2	70.0-126			6.11	20
1,2-Dichloroethane	0.00500	0.00472	0.00433	94.4	86.6	70.0-128			8.62	20
1,1-Dichloroethene	0.00500	0.00515	0.00486	103	97.2	71.0-124			5.79	20
cis-1,2-Dichloroethene	0.00500	0.00470	0.00447	94.0	89.4	73.0-120			5.02	20
trans-1,2-Dichloroethene	0.00500	0.00497	0.00448	99.4	89.6	73.0-120			10.4	20
1,2-Dichloropropane	0.00500	0.00505	0.00477	101	95.4	77.0-125			5.70	20
cis-1,3-Dichloropropene	0.00500	0.00506	0.00484	101	96.8	80.0-123			4.44	20
trans-1,3-Dichloropropene	0.00500	0.00514	0.00500	103	100	78.0-124			2.76	20

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

(LCS) R4057440-1 04/06/24 22:02 • (LCSD) R4057440-2 04/06/24 22:21

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 %
Ethylbenzene	0.00500	0.00473	0.00463	94.6	92.6	79.0-123			2.14	20
Hexachloro-1,3-butadiene	0.00500	0.00468	0.00503	93.6	101	54.0-138			7.21	20
2-Hexanone	0.0250	0.0250	0.0252	100	101	67.0-149			0.797	20
Isopropylbenzene	0.00500	0.00495	0.00476	99.0	95.2	76.0-127			3.91	20
p-Isopropyltoluene	0.00500	0.00488	0.00482	97.6	96.4	76.0-125			1.24	20
2-Butanone (MEK)	0.0250	0.0260	0.0222	104	88.8	44.0-160			15.8	20
Methylene Chloride	0.00500	0.00478	0.00446	95.6	89.2	67.0-120			6.93	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0275	0.0270	110	108	68.0-142			1.83	20
Methyl tert-butyl ether	0.00500	0.00526	0.00492	105	98.4	68.0-125			6.68	20
Naphthalene	0.00500	0.00345	0.00338	69.0	67.6	54.0-135			2.05	20
n-Propylbenzene	0.00500	0.00485	0.00472	97.0	94.4	77.0-124			2.72	20
Styrene	0.00500	0.00479	0.00472	95.8	94.4	73.0-130			1.47	20
1,1,2,2-Tetrachloroethane	0.00500	0.00471	0.00445	94.2	89.0	65.0-130			5.68	20
Tetrachloroethene	0.00500	0.00485	0.00480	97.0	96.0	72.0-132			1.04	20
Toluene	0.00500	0.00471	0.00452	94.2	90.4	79.0-120			4.12	20
1,1,1-Trichloroethane	0.00500	0.00519	0.00485	104	97.0	73.0-124			6.77	20
1,1,2-Trichloroethane	0.00500	0.00526	0.00499	105	99.8	80.0-120			5.27	20
Trichloroethene	0.00500	0.00499	0.00488	99.8	97.6	78.0-124			2.23	20
1,2,4-Trimethylbenzene	0.00500	0.00504	0.00481	101	96.2	76.0-121			4.67	20
1,3,5-Trimethylbenzene	0.00500	0.00475	0.00462	95.0	92.4	76.0-122			2.77	20
Vinyl chloride	0.00500	0.00407	0.00380	81.4	76.0	67.0-131			6.86	20
Xylenes, Total	0.0150	0.0144	0.0141	96.0	94.0	79.0-123			2.11	20
(S) Toluene-d8				*102*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*103*	*102*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*99.6*	*97.3*	*70.0-130*				

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/07/24 00:33 • (MS) R4057440-4 04/07/24 05:55 • (MSD) R4057440-5 04/07/24 06:14

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	U	0.0293	0.0314	117	126	1	10.0-160			6.92	35
Benzene	0.00500	0.000181	0.00605	0.00578	117	112	1	17.0-158			4.56	27
Bromodichloromethane	0.00500	U	0.00641	0.00624	128	125	1	31.0-150			2.69	27
Bromoform	0.00500	U	0.00634	0.00583	127	117	1	29.0-150			8.38	29
Bromomethane	0.00500	U	0.00438	0.00442	87.6	88.4	1	10.0-160			0.909	38
n-Butylbenzene	0.00500	U	0.00632	0.00612	126	122	1	31.0-150			3.22	30
sec-Butylbenzene	0.00500	U	0.00610	0.00622	122	124	1	33.0-155			1.95	29
tert-Butylbenzene	0.00500	U	0.00599	0.00623	120	125	1	34.0-153			3.93	28

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/07/24 00:33 • (MS) R4057440-4 04/07/24 05:55 • (MSD) R4057440-5 04/07/24 06:14

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 %
Carbon disulfide	0.00500	U	0.00575	0.00545	115	109	1	10.0-156			5.36	28
Carbon tetrachloride	0.00500	U	0.00729	0.00706	146	141	1	23.0-159			3.21	28
Chlorobenzene	0.00500	U	0.00580	0.00548	116	110	1	33.0-152			5.67	27
Chlorodibromomethane	0.00500	U	0.00655	0.00616	131	123	1	37.0-149			6.14	27
Chloroethane	0.00500	U	0.00535	0.00522	107	104	1	10.0-160			2.46	30
Chloroform	0.00500	U	0.00612	0.00581	122	116	1	29.0-154			5.20	28
Chloromethane	0.00500	U	0.00503	0.00488	101	97.6	1	10.0-160			3.03	29
1,2-Dibromoethane	0.00500	U	0.00634	0.00596	127	119	1	34.0-147			6.18	27
1,1-Dichloroethane	0.00500	U	0.00628	0.00616	126	123	1	25.0-158			1.93	27
1,2-Dichloroethane	0.00500	U	0.00577	0.00564	115	113	1	29.0-151			2.28	27
1,1-Dichloroethene	0.00500	U	0.00682	0.00661	136	132	1	11.0-160			3.13	29
cis-1,2-Dichloroethene	0.00500	U	0.00592	0.00579	118	116	1	10.0-160			2.22	27
trans-1,2-Dichloroethene	0.00500	U	0.00600	0.00591	120	118	1	17.0-153			1.51	27
1,2-Dichloropropane	0.00500	U	0.00634	0.00612	127	122	1	30.0-156			3.53	27
cis-1,3-Dichloropropene	0.00500	U	0.00610	0.00586	122	117	1	34.0-149			4.01	28
trans-1,3-Dichloropropene	0.00500	U	0.00617	0.00600	123	120	1	32.0-149			2.79	28
Ethylbenzene	0.00500	U	0.00620	0.00568	124	114	1	30.0-155			8.75	27
Hexachloro-1,3-butadiene	0.00500	U	0.00539	0.00477	108	95.4	1	20.0-154			12.2	34
2-Hexanone	0.0250	U	0.0325	0.0313	130	125	1	21.0-160			3.76	29
Isopropylbenzene	0.00500	U	0.00638	0.00612	128	122	1	28.0-157			4.16	27
p-Isopropyltoluene	0.00500	U	0.00602	0.00602	120	120	1	30.0-154			0.000	29
2-Butanone (MEK)	0.0250	U	0.0308	0.0261	123	104	1	10.0-160			16.5	32
Methylene Chloride	0.00500	U	0.00604	0.00590	121	118	1	23.0-144			2.35	28
4-Methyl-2-pentanone (MIBK)	0.0250	U	0.0334	0.0328	134	131	1	29.0-160			1.81	29
Methyl tert-butyl ether	0.00500	U	0.00654	0.00630	131	126	1	28.0-150			3.74	29
Naphthalene	0.00500	U	0.00381	0.00394	76.2	78.8	1	12.0-156			3.35	35
n-Propylbenzene	0.00500	U	0.00603	0.00617	121	123	1	31.0-154			2.30	28
Styrene	0.00500	U	0.00628	0.00580	126	116	1	33.0-155			7.95	28
1,1,2,2-Tetrachloroethane	0.00500	U	0.00603	0.00610	121	122	1	33.0-150			1.15	28
Tetrachloroethene	0.00500	U	0.00652	0.00601	130	120	1	10.0-160			8.14	27
Toluene	0.00500	U	0.00587	0.00552	117	110	1	26.0-154			6.15	28
1,1,1-Trichloroethane	0.00500	U	0.00689	0.00681	138	136	1	23.0-160			1.17	28
1,1,2-Trichloroethane	0.00500	U	0.00667	0.00634	133	127	1	35.0-147			5.07	27
Trichloroethene	0.00500	U	0.00626	0.00593	125	119	1	10.0-160			5.41	25
1,2,4-Trimethylbenzene	0.00500	U	0.00608	0.00601	122	120	1	26.0-154			1.16	27
1,3,5-Trimethylbenzene	0.00500	U	0.00577	0.00576	115	115	1	28.0-153			0.173	27
Vinyl chloride	0.00500	U	0.00553	0.00538	111	108	1	10.0-160			2.75	27
Xylenes, Total	0.0150	U	0.0184	0.0174	123	116	1	29.0-154			5.59	28
(S) Toluene-d8					*101*	*99.6*		*80.0-120*				
(S) 4-Bromofluorobenzene					*102*	*98.4*		*77.0-126*				

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/07/24 00:33 • (MS) R4057440-4 04/07/24 05:55 • (MSD) R4057440-5 04/07/24 06:14

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 %
(S) 1,2-Dichloroethane-d4					*101*	*101*		*70.0-130*				

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

Method Blank (MB)

(MB) R4057613-1 04/14/24 16:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*99.5*			*52.0-156*

Laboratory Control Sample (LCS)

(LCS) R4057613-2 04/14/24 17:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	1.50	1.71	114	50.0-150	
(S) o-Terphenyl			*96.5*	*52.0-156*	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/14/24 21:28 • (MS) R4057613-3 04/14/24 21:48 • (MSD) R4057613-4 04/14/24 22:09

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 %
TPH (GC/FID) High Fraction	1.43	0.0453	1.70	1.61	116	109	1	50.0-150			5.44	20
(S) o-Terphenyl					*94.2*	*88.4*		*52.0-156*				

Method Blank (MB)

(MB) R4056834-2 04/09/24 22:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Method Blank (MB)

(MB) R4056834-2 04/09/24 22:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*35.3*			*10.0-120*
(S) Phenol-d5	*26.1*			*10.0-120*
(S) Nitrobenzene-d5	*57.5*			*10.0-127*
(S) 2-Fluorobiphenyl	*67.6*			*10.0-130*
(S) 2,4,6-Tribromophenol	*68.5*			*10.0-155*
(S) p-Terphenyl-d14	*82.2*			*10.0-128*

Received by OCD: 4/15/2025 7:55:48 AM

Laboratory Control Sample (LCS)

(LCS) R4056834-1 04/09/24 21:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0383	76.6	41.0-120	
Acenaphthylene	0.0500	0.0406	81.2	43.0-120	
Acetophenone	0.0500	0.0333	66.6	29.0-120	
Anthracene	0.0500	0.0419	83.8	45.0-120	
Atrazine	0.0500	0.0435	87.0	39.0-141	
Benzo(a)anthracene	0.0500	0.0405	81.0	47.0-120	
Benzaldehyde	0.0500	0.0960	192	10.0-160	J4
Benzo(b)fluoranthene	0.0500	0.0417	83.4	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0433	86.6	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0392	78.4	48.0-121	
Benzo(a)pyrene	0.0500	0.0412	82.4	47.0-120	
Biphenyl	0.0500	0.0384	76.8	38.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0348	69.6	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0346	69.2	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0327	65.4	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0445	89.0	45.0-120	
2-Chloronaphthalene	0.0500	0.0371	74.2	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0418	83.6	44.0-120	
Caprolactam	0.0500	0.0158	31.6	10.0-120	
Carbazole	0.0500	0.0435	87.0	51.0-122	
Chrysene	0.0500	0.0434	86.8	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0425	85.0	47.0-120	
Dibenzofuran	0.0500	0.0398	79.6	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0637	63.7	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0431	86.2	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0423	84.6	46.0-120	
Fluoranthene	0.0500	0.0433	86.6	51.0-120	
Fluorene	0.0500	0.0414	82.8	47.0-120	
Hexachlorobenzene	0.0500	0.0434	86.8	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0300	60.0	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0250	50.0	15.0-120	
Hexachloroethane	0.0500	0.0276	55.2	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0381	76.2	49.0-122	
Isophorone	0.0500	0.0336	67.2	36.0-120	
1-Methylnaphthalene	0.0500	0.0363	72.6	33.0-120	
2-Methylnaphthalene	0.0500	0.0338	67.6	33.0-120	
Naphthalene	0.0500	0.0316	63.2	27.0-120	
Nitrobenzene	0.0500	0.0306	61.2	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0407	81.4	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0345	69.0	31.0-120	

Released to Imaging: 5/2/2025 9:53:52 AM

Laboratory Control Sample (LCS)

(LCS) R4056834-1 04/09/24 21:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	0.0500	0.0403	80.6	46.0-120	
Benzylbutyl phthalate	0.0500	0.0418	83.6	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0405	81.0	43.0-122	
Di-n-butyl phthalate	0.0500	0.0427	85.4	49.0-121	
Diethyl phthalate	0.0500	0.0411	82.2	48.0-122	
Dimethyl phthalate	0.0500	0.0420	84.0	48.0-120	
Di-n-octyl phthalate	0.0500	0.0396	79.2	42.0-125	
Pyrene	0.0500	0.0420	84.0	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0306	61.2	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0325	65.0	40.0-120	
2-Chlorophenol	0.0500	0.0266	53.2	25.0-120	
2,4-Dichlorophenol	0.0500	0.0327	65.4	36.0-120	
2,4-Dimethylphenol	0.0500	0.0343	68.6	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0454	90.8	38.0-138	
2,4-Dinitrophenol	0.0500	0.0438	87.6	10.0-120	
2-Nitrophenol	0.0500	0.0341	68.2	31.0-120	
2-Nitroaniline	0.0500	0.0426	85.2	43.0-120	
2-Methylphenol	0.0500	0.0257	51.4	28.0-120	
3&4-Methyl Phenol	0.0500	0.0276	55.2	31.0-120	
3-Nitroaniline	0.0500	0.0336	67.2	38.0-120	
4-Chloroaniline	0.0500	0.0171	34.2	25.0-120	
4-Nitroaniline	0.0500	0.0380	76.0	18.0-160	
4-Nitrophenol	0.0500	0.0191	38.2	10.0-120	
Pentachlorophenol	0.0500	0.0402	80.4	23.0-120	
Phenol	0.0500	0.0143	28.6	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0420	84.0	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0414	82.8	42.0-120	
(S) 2-Fluorophenol			*34.8*	*10.0-120*	
(S) Phenol-d5			*26.6*	*10.0-120*	
(S) Nitrobenzene-d5			*53.2*	*10.0-127*	
(S) 2-Fluorobiphenyl			*75.6*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*87.5*	*10.0-155*	
(S) p-Terphenyl-d14			*82.8*	*10.0-128*	

L1722394-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722394-01 04/10/24 03:42 • (MS) R4056834-3 04/10/24 04:04 • (MSD) R4056834-4 04/10/24 04:25

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 %
Acenaphthene	0.0500	U	0.0388	0.0364	77.6	72.8	1	28.0-120			6.38	25
Acenaphthylene	0.0500	U	0.0407	0.0393	81.4	78.6	1	31.0-121			3.50	25
Acetophenone	0.0500	0.00584	0.0411	0.0400	70.5	68.3	1	20.0-120			2.71	35
Anthracene	0.0500	U	0.0417	0.0386	83.4	77.2	1	36.0-120			7.72	23
Atrazine	0.0500	U	0.0435	0.0403	87.0	80.6	1	39.0-130			7.64	23
Benzo(a)anthracene	0.0500	U	0.0410	0.0384	82.0	76.8	1	39.0-120			6.55	23
Benzaldehyde	0.0500	U	0.0960	0.103	192	206	1	10.0-160	J5	J5	7.04	40
Benzo(b)fluoranthene	0.0500	U	0.0417	0.0379	83.4	75.8	1	37.0-120			9.55	23
Benzo(k)fluoranthene	0.0500	U	0.0415	0.0377	83.0	75.4	1	37.0-120			9.60	26
Benzo(g,h,i)perylene	0.0500	U	0.0410	0.0377	82.0	75.4	1	37.0-123			8.39	25
Benzo(a)pyrene	0.0500	U	0.0416	0.0379	83.2	75.8	1	37.0-120			9.31	24
Biphenyl	0.0500	U	0.0390	0.0371	78.0	74.2	1	29.0-120			4.99	33
Bis(2-chlorethoxy)methane	0.0500	U	0.0380	0.0349	76.0	69.8	1	17.0-120			8.50	31
Bis(2-chloroethyl)ether	0.0500	U	0.0397	0.0348	79.4	69.6	1	14.0-120			13.2	33
2,2-Oxybis(1-Chloropropane)	0.0500	U	0.0350	0.0338	70.0	67.6	1	18.0-120			3.49	34
4-Bromophenyl-phenylether	0.0500	U	0.0443	0.0416	88.6	83.2	1	37.0-120			6.29	24
2-Chloronaphthalene	0.0500	U	0.0379	0.0362	75.8	72.4	1	29.0-120			4.59	28
4-Chlorophenyl-phenylether	0.0500	U	0.0421	0.0397	84.2	79.4	1	36.0-120			5.87	23
Caprolactam	0.0500	U	0.0164	0.0154	32.8	30.8	1	10.0-120			6.29	40
Carbazole	0.0500	0.000464	0.0441	0.0407	87.3	80.5	1	38.0-127			8.02	21
Chrysene	0.0500	U	0.0440	0.0409	88.0	81.8	1	38.0-120			7.30	23
Dibenz(a,h)anthracene	0.0500	U	0.0429	0.0385	85.8	77.0	1	36.0-121			10.8	24
Dibenzofuran	0.0500	U	0.0400	0.0378	80.0	75.6	1	32.0-120			5.66	26
3,3-Dichlorobenzidine	0.100	U	0.0697	0.0616	69.7	61.6	1	10.0-134			12.3	30
2,4-Dinitrotoluene	0.0500	U	0.0433	0.0404	86.6	80.8	1	39.0-125			6.93	25
2,6-Dinitrotoluene	0.0500	U	0.0420	0.0400	84.0	80.0	1	36.0-120			4.88	27
Fluoranthene	0.0500	0.000208	0.0445	0.0409	88.6	81.4	1	41.0-121			8.43	22
Fluorene	0.0500	U	0.0416	0.0391	83.2	78.2	1	37.0-120			6.20	24
Hexachlorobenzene	0.0500	U	0.0429	0.0402	85.8	80.4	1	35.0-122			6.50	24
Hexachloro-1,3-butadiene	0.0500	U	0.0310	0.0297	62.0	59.4	1	12.0-120			4.28	34
Hexachlorocyclopentadiene	0.0500	U	0.0295	0.0285	59.0	57.0	1	10.0-120			3.45	33
Hexachloroethane	0.0500	U	0.0299	0.0303	59.8	60.6	1	10.0-120			1.33	40
Indeno(1,2,3-cd)pyrene	0.0500	U	0.0401	0.0361	80.2	72.2	1	38.0-125			10.5	24
Isophorone	0.0500	U	0.0338	0.0319	67.6	63.8	1	21.0-120			5.78	27
1-Methylnaphthalene	0.0500	U	0.0371	0.0348	74.2	69.6	1	11.0-120			6.40	27
2-Methylnaphthalene	0.0500	0.000144	0.0346	0.0328	68.9	65.3	1	17.0-120			5.34	28
Naphthalene	0.0500	U	0.0325	0.0314	65.0	62.8	1	10.0-120			3.44	31
Nitrobenzene	0.0500	U	0.0315	0.0307	63.0	61.4	1	12.0-120			2.57	30
n-Nitrosodiphenylamine	0.0500	U	0.0415	0.0383	83.0	76.6	1	37.0-120			8.02	24
n-Nitrosodi-n-propylamine	0.0500	U	0.0446	0.0429	89.2	85.8	1	16.0-120			3.89	30

L1722394-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722394-01 04/10/24 03:42 • (MS) R4056834-3 04/10/24 04:04 • (MSD) R4056834-4 04/10/24 04:25

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 %
Phenanthrene	0.0500	0.000202	0.0407	0.0379	81.0	75.4	1	33.0-120			7.12	22
Benzylbutyl phthalate	0.0500	U	0.0410	0.0388	82.0	77.6	1	34.0-126			5.51	24
Bis(2-ethylhexyl)phthalate	0.0500	U	0.0383	0.0358	76.6	71.6	1	33.0-126			6.75	25
Di-n-butyl phthalate	0.0500	U	0.0425	0.0394	85.0	78.8	1	35.0-128			7.57	23
Diethyl phthalate	0.0500	U	0.0402	0.0379	80.4	75.8	1	39.0-125			5.89	24
Dimethyl phthalate	0.0500	U	0.0410	0.0393	82.0	78.6	1	37.0-120			4.23	24
Di-n-octyl phthalate	0.0500	U	0.0392	0.0365	78.4	73.0	1	25.0-135			7.13	26
Pyrene	0.0500	U	0.0409	0.0387	81.8	77.4	1	39.0-120			5.53	22
1,2,4-Trichlorobenzene	0.0500	U	0.0314	0.0314	62.8	62.8	1	15.0-120			0.000	31
4-Chloro-3-methylphenol	0.0500	U	0.0346	0.0342	69.2	68.4	1	26.0-120			1.16	27
2-Chlorophenol	0.0500	U	0.0303	0.0323	60.6	64.6	1	18.0-120			6.39	34
2,4-Dichlorophenol	0.0500	U	0.0358	0.0347	71.6	69.4	1	19.0-120			3.12	27
2,4-Dimethylphenol	0.0500	U	0.0351	0.0348	70.2	69.6	1	15.0-120			0.858	28
4,6-Dinitro-2-methylphenol	0.0500	U	0.0468	0.0440	93.6	88.0	1	10.0-144			6.17	39
2,4-Dinitrophenol	0.0500	U	0.0478	0.0453	95.6	90.6	1	10.0-120			5.37	40
2-Nitrophenol	0.0500	U	0.0366	0.0349	73.2	69.8	1	20.0-120			4.76	30
2-Nitroaniline	0.0500	U	0.0421	0.0398	84.2	79.6	1	33.0-120			5.62	27
2-Methylphenol	0.0500	U	0.0284	0.0296	56.8	59.2	1	10.0-120			4.14	30
3&4-Methyl Phenol	0.0500	U	0.0313	0.0320	62.6	64.0	1	10.0-120			2.21	36
3-Nitroaniline	0.0500	U	0.0293	0.0280	58.6	56.0	1	20.0-120			4.54	27
4-Chloroaniline	0.0500	U	0.0147	0.0100	29.4	20.0	1	10.0-120		J3	38.1	31
4-Nitroaniline	0.0500	U	0.0329	0.0315	65.8	63.0	1	10.0-160			4.35	26
4-Nitrophenol	0.0500	U	0.0207	0.0197	41.4	39.4	1	10.0-120			4.95	40
Pentachlorophenol	0.0500	U	0.0470	0.0436	94.0	87.2	1	10.0-128			7.51	37
Phenol	0.0500	0.00488	0.0158	0.0163	21.8	22.8	1	10.0-120			3.12	40
2,4,5-Trichlorophenol	0.0500	U	0.0450	0.0418	90.0	83.6	1	33.0-120			7.37	31
2,4,6-Trichlorophenol	0.0500	U	0.0433	0.0415	86.6	83.0	1	26.0-120			4.25	31
(S) 2-Fluorophenol					*39.1*	*42.6*		*10.0-120*				
(S) Phenol-d5					*34.0*	*35.8*		*10.0-120*				
(S) Nitrobenzene-d5					*61.5*	*52.7*		*10.0-127*				
(S) 2-Fluorobiphenyl					*75.5*	*71.1*		*10.0-130*				
(S) 2,4,6-Tribromophenol					*89.0*	*84.5*		*10.0-155*				
(S) p-Terphenyl-d14					*77.9*	*73.1*		*10.0-128*				

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4058123-2 04/16/24 01:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	0.000111	J	0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4058123-2 04/16/24 01:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*33.3*			*10.0-120*
(S) Phenol-d5	*19.8*			*10.0-120*
(S) Nitrobenzene-d5	*48.5*			*10.0-127*
(S) 2-Fluorobiphenyl	*51.3*			*10.0-130*
(S) 2,4,6-Tribromophenol	*58.0*			*10.0-155*
(S) p-Terphenyl-d14	*62.2*			*10.0-128*

Received by OCD: 4/15/2025 7:55:48 AM

Laboratory Control Sample (LCS)

(LCS) R4058123-1 04/16/24 00:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0308	61.6	41.0-120	
Acenaphthylene	0.0500	0.0326	65.2	43.0-120	
Acetophenone	0.0500	0.0285	57.0	29.0-120	
Anthracene	0.0500	0.0325	65.0	45.0-120	
Atrazine	0.0500	0.0382	76.4	39.0-141	
Benzo(a)anthracene	0.0500	0.0347	69.4	47.0-120	
Benzaldehyde	0.0500	0.0847	169	10.0-160	J4
Benzo(b)fluoranthene	0.0500	0.0359	71.8	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0353	70.6	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0332	66.4	48.0-121	
Benzo(a)pyrene	0.0500	0.0321	64.2	47.0-120	
Biphenyl	0.0500	0.0311	62.2	38.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0278	55.6	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0269	53.8	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0282	56.4	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0372	74.4	45.0-120	
2-Chloronaphthalene	0.0500	0.0304	60.8	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0349	69.8	44.0-120	
Caprolactam	0.0500	0.00950	19.0	10.0-120	
Carbazole	0.0500	0.0353	70.6	51.0-122	
Chrysene	0.0500	0.0371	74.2	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0352	70.4	47.0-120	
Dibenzofuran	0.0500	0.0323	64.6	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0720	72.0	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0367	73.4	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0355	71.0	46.0-120	
Fluoranthene	0.0500	0.0370	74.0	51.0-120	
Fluorene	0.0500	0.0333	66.6	47.0-120	
Hexachlorobenzene	0.0500	0.0371	74.2	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0293	58.6	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0122	24.4	15.0-120	
Hexachloroethane	0.0500	0.0242	48.4	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0325	65.0	49.0-122	
Isophorone	0.0500	0.0267	53.4	36.0-120	
1-Methylnaphthalene	0.0500	0.0302	60.4	33.0-120	
2-Methylnaphthalene	0.0500	0.0281	56.2	33.0-120	
Naphthalene	0.0500	0.0269	53.8	27.0-120	
Nitrobenzene	0.0500	0.0264	52.8	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0327	65.4	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0262	52.4	31.0-120	

Released to Imaging: 5/2/2025 9:53:52 AM

Laboratory Control Sample (LCS)

(LCS) R4058123-1 04/16/24 00:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	0.0500	0.0327	65.4	46.0-120	
Benzylbutyl phthalate	0.0500	0.0332	66.4	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0326	65.2	43.0-122	
Di-n-butyl phthalate	0.0500	0.0346	69.2	49.0-121	
Diethyl phthalate	0.0500	0.0342	68.4	48.0-122	
Dimethyl phthalate	0.0500	0.0344	68.8	48.0-120	
Di-n-octyl phthalate	0.0500	0.0330	66.0	42.0-125	
Pyrene	0.0500	0.0342	68.4	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0278	55.6	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0299	59.8	40.0-120	
2-Chlorophenol	0.0500	0.0284	56.8	25.0-120	
2,4-Dichlorophenol	0.0500	0.0323	64.6	36.0-120	
2,4-Dimethylphenol	0.0500	0.0286	57.2	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0407	81.4	38.0-138	
2,4-Dinitrophenol	0.0500	0.0394	78.8	10.0-120	
2-Nitrophenol	0.0500	0.0322	64.4	31.0-120	
2-Nitroaniline	0.0500	0.0346	69.2	43.0-120	
2-Methylphenol	0.0500	0.0245	49.0	28.0-120	
3&4-Methyl Phenol	0.0500	0.0261	52.2	31.0-120	
3-Nitroaniline	0.0500	0.0307	61.4	38.0-120	
4-Chloroaniline	0.0500	0.0205	41.0	25.0-120	
4-Nitroaniline	0.0500	0.0327	65.4	18.0-160	
4-Nitrophenol	0.0500	0.0154	30.8	10.0-120	
Pentachlorophenol	0.0500	0.0300	60.0	23.0-120	
Phenol	0.0500	0.0119	23.8	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0391	78.2	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0362	72.4	42.0-120	
(S) 2-Fluorophenol			*40.8*	*10.0-120*	
(S) Phenol-d5			*25.3*	*10.0-120*	
(S) Nitrobenzene-d5			*56.6*	*10.0-127*	
(S) 2-Fluorobiphenyl			*69.1*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*88.0*	*10.0-155*	
(S) p-Terphenyl-d14			*80.4*	*10.0-128*	

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/16/24 03:28 • (MS) R4058123-3 04/16/24 03:50 • (MSD) R4058123-4 04/16/24 04:11

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 %
Acenaphthene	0.0500	U	0.0302	0.0265	60.4	53.0	1	28.0-120			13.1	25
Acenaphthylene	0.0500	U	0.0322	0.0281	64.4	56.2	1	31.0-121			13.6	25
Acetophenone	0.0500	U	0.0291	0.0241	58.2	48.2	1	20.0-120			18.8	35
Anthracene	0.0500	U	0.0307	0.0276	61.4	55.2	1	36.0-120			10.6	23
Atrazine	0.0500	U	0.0373	0.0316	74.6	63.2	1	39.0-130			16.5	23
Benzo(a)anthracene	0.0500	U	0.0323	0.0296	64.6	59.2	1	39.0-120			8.72	23
Benzaldehyde	0.0500	U	0.0861	0.0725	172	145	1	10.0-160	J5		17.2	40
Benzo(b)fluoranthene	0.0500	U	0.0332	0.0302	66.4	60.4	1	37.0-120			9.46	23
Benzo(k)fluoranthene	0.0500	U	0.0329	0.0306	65.8	61.2	1	37.0-120			7.24	26
Benzo(g,h,i)perylene	0.0500	U	0.0316	0.0285	63.2	57.0	1	37.0-123			10.3	25
Benzo(a)pyrene	0.0500	U	0.0308	0.0285	61.6	57.0	1	37.0-120			7.76	24
Biphenyl	0.0500	U	0.0307	0.0273	61.4	54.6	1	29.0-120			11.7	33
Bis(2-chlorethoxy)methane	0.0500	U	0.0281	0.0240	56.2	48.0	1	17.0-120			15.7	31
Bis(2-chloroethyl)ether	0.0500	U	0.0278	0.0245	55.6	49.0	1	14.0-120			12.6	33
2,2-Oxybis(1-Chloropropane)	0.0500	U	0.0283	0.0240	56.6	48.0	1	18.0-120			16.4	34
4-Bromophenyl-phenylether	0.0500	U	0.0355	0.0317	71.0	63.4	1	37.0-120			11.3	24
2-Chloronaphthalene	0.0500	U	0.0303	0.0266	60.6	53.2	1	29.0-120			13.0	28
4-Chlorophenyl-phenylether	0.0500	U	0.0339	0.0289	67.8	57.8	1	36.0-120			15.9	23
Caprolactam	0.0500	U	0.0110	0.00789	22.0	15.8	1	10.0-120			32.9	40
Carbazole	0.0500	U	0.0332	0.0289	66.4	57.8	1	38.0-127			13.8	21
Chrysene	0.0500	U	0.0336	0.0309	67.2	61.8	1	38.0-120			8.37	23
Dibenz(a,h)anthracene	0.0500	U	0.0333	0.0301	66.6	60.2	1	36.0-121			10.1	24
Dibenzofuran	0.0500	U	0.0315	0.0274	63.0	54.8	1	32.0-120			13.9	26
3,3-Dichlorobenzidine	0.100	U	0.0657	0.0604	65.7	60.4	1	10.0-134			8.41	30
2,4-Dinitrotoluene	0.0500	U	0.0359	0.0310	71.8	62.0	1	39.0-125			14.6	25
2,6-Dinitrotoluene	0.0500	U	0.0347	0.0299	69.4	59.8	1	36.0-120			14.9	27
Fluoranthene	0.0500	U	0.0349	0.0307	69.8	61.4	1	41.0-121			12.8	22
Fluorene	0.0500	U	0.0327	0.0284	65.4	56.8	1	37.0-120			14.1	24
Hexachlorobenzene	0.0500	U	0.0360	0.0314	72.0	62.8	1	35.0-122			13.6	24
Hexachloro-1,3-butadiene	0.0500	U	0.0293	0.0263	58.6	52.6	1	12.0-120			10.8	34
Hexachlorocyclopentadiene	0.0500	U	0.0138	0.0116	27.6	23.2	1	10.0-120			17.3	33
Hexachloroethane	0.0500	U	0.0250	0.0207	50.0	41.4	1	10.0-120			18.8	40
Indeno(1,2,3-cd)pyrene	0.0500	U	0.0302	0.0273	60.4	54.6	1	38.0-125			10.1	24
Isophorone	0.0500	U	0.0267	0.0224	53.4	44.8	1	21.0-120			17.5	27
1-Methylnaphthalene	0.0500	U	0.0304	0.0259	60.8	51.8	1	11.0-120			16.0	27
2-Methylnaphthalene	0.0500	U	0.0282	0.0242	56.4	48.4	1	17.0-120			15.3	28
Naphthalene	0.0500	U	0.0268	0.0235	53.6	47.0	1	10.0-120			13.1	31
Nitrobenzene	0.0500	U	0.0262	0.0231	52.4	46.2	1	12.0-120			12.6	30
n-Nitrosodiphenylamine	0.0500	U	0.0307	0.0286	61.4	57.2	1	37.0-120			7.08	24
n-Nitrosodi-n-propylamine	0.0500	U	0.0275	0.0220	55.0	44.0	1	16.0-120			22.2	30

L1722760-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722760-23 04/16/24 03:28 • (MS) R4058123-3 04/16/24 03:50 • (MSD) R4058123-4 04/16/24 04:11

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 %
Phenanthrene	0.0500	U	0.0310	0.0275	62.0	55.0	1	33.0-120			12.0	22
Benzylbutyl phthalate	0.0500	U	0.0315	0.0284	63.0	56.8	1	34.0-126			10.4	24
Bis(2-ethylhexyl)phthalate	0.0500	U	0.0305	0.0279	61.0	55.8	1	33.0-126			8.90	25
Di-n-butyl phthalate	0.0500	U	0.0332	0.0290	66.4	58.0	1	35.0-128			13.5	23
Diethyl phthalate	0.0500	U	0.0333	0.0283	66.6	56.6	1	39.0-125			16.2	24
Dimethyl phthalate	0.0500	U	0.0335	0.0287	67.0	57.4	1	37.0-120			15.4	24
Di-n-octyl phthalate	0.0500	U	0.0307	0.0283	61.4	56.6	1	25.0-135			8.14	26
Pyrene	0.0500	U	0.0323	0.0296	64.6	59.2	1	39.0-120			8.72	22
1,2,4-Trichlorobenzene	0.0500	U	0.0282	0.0247	56.4	49.4	1	15.0-120			13.2	31
4-Chloro-3-methylphenol	0.0500	U	0.0293	0.0248	58.6	49.6	1	26.0-120			16.6	27
2-Chlorophenol	0.0500	U	0.0284	0.0237	56.8	47.4	1	18.0-120			18.0	34
2,4-Dichlorophenol	0.0500	U	0.0326	0.0280	65.2	56.0	1	19.0-120			15.2	27
2,4-Dimethylphenol	0.0500	U	0.0302	0.0264	60.4	52.8	1	15.0-120			13.4	28
4,6-Dinitro-2-methylphenol	0.0500	U	0.0391	0.0345	78.2	69.0	1	10.0-144			12.5	39
2,4-Dinitrophenol	0.0500	U	0.0410	0.0363	82.0	72.6	1	10.0-120			12.2	40
2-Nitrophenol	0.0500	U	0.0320	0.0280	64.0	56.0	1	20.0-120			13.3	30
2-Nitroaniline	0.0500	U	0.0339	0.0285	67.8	57.0	1	33.0-120			17.3	27
2-Methylphenol	0.0500	U	0.0247	0.0205	49.4	41.0	1	10.0-120			18.6	30
3&4-Methyl Phenol	0.0500	U	0.0262	0.0211	52.4	42.2	1	10.0-120			21.6	36
3-Nitroaniline	0.0500	U	0.0305	0.0246	61.0	49.2	1	20.0-120			21.4	27
4-Chloroaniline	0.0500	U	0.0211	0.0170	42.2	34.0	1	10.0-120			21.5	31
4-Nitroaniline	0.0500	U	0.0319	0.0270	63.8	54.0	1	10.0-160			16.6	26
4-Nitrophenol	0.0500	U	0.0150	0.0129	30.0	25.8	1	10.0-120			15.1	40
Pentachlorophenol	0.0500	U	0.0321	0.0279	64.2	55.8	1	10.0-128			14.0	37
Phenol	0.0500	U	0.0125	0.0102	25.0	20.4	1	10.0-120			20.3	40
2,4,5-Trichlorophenol	0.0500	U	0.0376	0.0327	75.2	65.4	1	33.0-120			13.9	31
2,4,6-Trichlorophenol	0.0500	U	0.0355	0.0313	71.0	62.6	1	26.0-120			12.6	31
(S) 2-Fluorophenol					*38.9*	*33.8*		*10.0-120*				
(S) Phenol-d5					*24.2*	*20.8*		*10.0-120*				
(S) Nitrobenzene-d5					*54.3*	*47.6*		*10.0-127*				
(S) 2-Fluorobiphenyl					*68.7*	*61.5*		*10.0-130*				
(S) 2,4,6-Tribromophenol					*82.5*	*77.0*		*10.0-155*				
(S) p-Terphenyl-d14					*73.5*	*69.4*		*10.0-128*				

Received by OCD: 4/15/2025 7:55:48 AM

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L1722760-30,31

Method Blank (MB)

(MB) R4057931-3 04/15/24 12:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4057931-3 04/15/24 12:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*22.2*			*10.0-120*
(S) Phenol-d5	*16.1*			*10.0-120*
(S) Nitrobenzene-d5	*31.2*			*10.0-127*
(S) 2-Fluorobiphenyl	*52.1*			*10.0-130*
(S) 2,4,6-Tribromophenol	*47.4*			*10.0-155*
(S) p-Terphenyl-d14	*68.4*			*10.0-128*

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

(LCS) R4057931-1 04/15/24 11:57 • (LCSD) R4057931-2 04/15/24 12:19

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 %
Acenaphthene	0.0500	0.0414	0.0296	82.8	59.2	41.0-120		J3	33.2	22
Acenaphthylene	0.0500	0.0443	0.0309	88.6	61.8	43.0-120		J3	35.6	22
Acetophenone	0.0500	0.0370	0.0226	74.0	45.2	29.0-120		J3	48.3	28
Anthracene	0.0500	0.0417	0.0369	83.4	73.8	45.0-120			12.2	20
Atrazine	0.0500	0.0493	0.0440	98.6	88.0	39.0-141			11.4	20
Benzo(a)anthracene	0.0500	0.0433	0.0429	86.6	85.8	47.0-120			0.928	20
Benzaldehyde	0.0500	0.111	0.0661	222	132	10.0-160	J4	J3	50.7	40
Benzo(b)fluoranthene	0.0500	0.0436	0.0431	87.2	86.2	46.0-120			1.15	20
Benzo(k)fluoranthene	0.0500	0.0440	0.0436	88.0	87.2	46.0-120			0.913	21
Benzo(g,h,i)perylene	0.0500	0.0424	0.0420	84.8	84.0	48.0-121			0.948	20
Benzo(a)pyrene	0.0500	0.0451	0.0431	90.2	86.2	47.0-120			4.54	20
Biphenyl	0.0500	0.0425	0.0285	85.0	57.0	38.0-120		J3	39.4	27
Bis(2-chlorethoxy)methane	0.0500	0.0347	0.0237	69.4	47.4	33.0-120		J3	37.7	24
Bis(2-chloroethyl)ether	0.0500	0.0355	0.0219	71.0	43.8	23.0-120		J3	47.4	33
2,2-Oxybis(1-Chloropropane)	0.0500	0.0361	0.0219	72.2	43.8	28.0-120		J3	49.0	31
4-Bromophenyl-phenylether	0.0500	0.0472	0.0401	94.4	80.2	45.0-120			16.3	20
2-Chloronaphthalene	0.0500	0.0414	0.0271	82.8	54.2	37.0-120		J3	41.8	25
4-Chlorophenyl-phenylether	0.0500	0.0470	0.0372	94.0	74.4	44.0-120		J3	23.3	20
Caprolactam	0.0500	0.0127	0.0138	25.4	27.6	10.0-120			8.30	26
Carbazole	0.0500	0.0434	0.0401	86.8	80.2	51.0-122			7.90	20
Chrysene	0.0500	0.0460	0.0454	92.0	90.8	48.0-120			1.31	20
Dibenz(a,h)anthracene	0.0500	0.0445	0.0440	89.0	88.0	47.0-120			1.13	20
Dibenzofuran	0.0500	0.0433	0.0323	86.6	64.6	44.0-120		J3	29.1	22
3,3-Dichlorobenzidine	0.100	0.0922	0.0773	92.2	77.3	44.0-120			17.6	20
2,4-Dinitrotoluene	0.0500	0.0468	0.0402	93.6	80.4	49.0-124			15.2	20
2,6-Dinitrotoluene	0.0500	0.0450	0.0369	90.0	73.8	46.0-120			19.8	21
Fluoranthene	0.0500	0.0462	0.0430	92.4	86.0	51.0-120			7.17	20
Fluorene	0.0500	0.0441	0.0352	88.2	70.4	47.0-120		J3	22.4	20
Hexachlorobenzene	0.0500	0.0461	0.0412	92.2	82.4	44.0-120			11.2	20
Hexachloro-1,3-butadiene	0.0500	0.0422	0.0249	84.4	49.8	19.0-120		J3	51.6	32
Hexachlorocyclopentadiene	0.0500	0.0418	0.0168	83.6	33.6	15.0-120		J3	85.3	31
Hexachloroethane	0.0500	0.0356	0.0198	71.2	39.6	15.0-120		J3	57.0	37
Indeno(1,2,3-cd)pyrene	0.0500	0.0429	0.0411	85.8	82.2	49.0-122			4.29	20
Isophorone	0.0500	0.0330	0.0230	66.0	46.0	36.0-120		J3	35.7	23
1-Methylnaphthalene	0.0500	0.0404	0.0253	80.8	50.6	33.0-120		J3	46.0	24
2-Methylnaphthalene	0.0500	0.0381	0.0238	76.2	47.6	33.0-120		J3	46.2	25
Naphthalene	0.0500	0.0372	0.0211	74.4	42.2	27.0-120		J3	55.2	27
Nitrobenzene	0.0500	0.0332	0.0203	66.4	40.6	27.0-120		J3	48.2	29
n-Nitrosodiphenylamine	0.0500	0.0422	0.0351	84.4	70.2	47.0-120			18.4	20
n-Nitrosodi-n-propylamine	0.0500	0.0330	0.0217	66.0	43.4	31.0-120		J3	41.3	28

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

(LCS) R4057931-1 04/15/24 11:57 • (LCSD) R4057931-2 04/15/24 12:19

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 %
Phenanthrene	0.0500	0.0409	0.0363	81.8	72.6	46.0-120			11.9	20
Benzylbutyl phthalate	0.0500	0.0406	0.0400	81.2	80.0	43.0-121			1.49	20
Bis(2-ethylhexyl)phthalate	0.0500	0.0393	0.0412	78.6	82.4	43.0-122			4.72	20
Di-n-butyl phthalate	0.0500	0.0420	0.0408	84.0	81.6	49.0-121			2.90	20
Diethyl phthalate	0.0500	0.0435	0.0373	87.0	74.6	48.0-122			15.3	20
Dimethyl phthalate	0.0500	0.0441	0.0363	88.2	72.6	48.0-120			19.4	20
Di-n-octyl phthalate	0.0500	0.0399	0.0419	79.8	83.8	42.0-125			4.89	20
Pyrene	0.0500	0.0425	0.0402	85.0	80.4	47.0-120			5.56	20
1,2,4-Trichlorobenzene	0.0500	0.0398	0.0231	79.6	46.2	24.0-120		J3	53.1	29
4-Chloro-3-methylphenol	0.0500	0.0374	0.0270	74.8	54.0	40.0-120		J3	32.3	21
2-Chlorophenol	0.0500	0.0375	0.0197	75.0	39.4	25.0-120		J3	62.2	35
2,4-Dichlorophenol	0.0500	0.0401	0.0256	80.2	51.2	36.0-120		J3	44.1	26
2,4-Dimethylphenol	0.0500	0.0388	0.0242	77.6	48.4	33.0-120		J3	46.3	26
4,6-Dinitro-2-methylphenol	0.0500	0.0485	0.0432	97.0	86.4	38.0-138			11.6	25
2,4-Dinitrophenol	0.0500	0.0506	0.0426	101	85.2	10.0-120			17.2	39
2-Nitrophenol	0.0500	0.0401	0.0242	80.2	48.4	31.0-120		J3	49.5	29
2-Nitroaniline	0.0500	0.0433	0.0362	86.6	72.4	43.0-120			17.9	22
2-Methylphenol	0.0500	0.0340	0.0184	68.0	36.8	28.0-120		J3	59.5	29
3&4-Methyl Phenol	0.0500	0.0354	0.0207	70.8	41.4	31.0-120		J3	52.4	30
3-Nitroaniline	0.0500	0.0408	0.0353	81.6	70.6	38.0-120			14.5	21
4-Chloroaniline	0.0500	0.0284	0.0248	56.8	49.6	25.0-120			13.5	25
4-Nitroaniline	0.0500	0.0435	0.0383	87.0	76.6	18.0-160			12.7	21
4-Nitrophenol	0.0500	0.0225	0.0180	45.0	36.0	10.0-120			22.2	33
Pentachlorophenol	0.0500	0.0406	0.0352	81.2	70.4	23.0-120			14.2	25
Phenol	0.0500	0.0169	0.0108	33.8	21.6	10.0-120		J3	44.0	36
2,4,5-Trichlorophenol	0.0500	0.0483	0.0380	96.6	76.0	44.0-120		J3	23.9	22
2,4,6-Trichlorophenol	0.0500	0.0465	0.0342	93.0	68.4	42.0-120		J3	30.5	23
(S) 2-Fluorophenol				*50.5*	*27.4*	*10.0-120*				
(S) Phenol-d5				*31.9*	*20.1*	*10.0-120*				
(S) Nitrobenzene-d5				*60.8*	*37.9*	*10.0-127*				
(S) 2-Fluorobiphenyl				*85.2*	*55.6*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*94.5*	*79.5*	*10.0-155*				
(S) p-Terphenyl-d14				*83.4*	*83.3*	*10.0-128*				

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
B	The same analyte is found in the associated blank.
C6	The initial calibration verification standard (SSCV) associated with this data responded low.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

GLOSSARY OF TERMS

Qualifier	Description
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
TRC Solutions - Austin, TX

505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;aeljuri@trccompanie**

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT MT CT ET

Phone: **512-684-3176**

Client Project # **584880.0000.0000**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Greg Scherbenske - HMT

Site/Facility ID # NOTM

P.O. # **213735**

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Date Results Needed

Quote #

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS 250mlHDPE HNO3	TDS 500mlHDPE-NoPres	V8260 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-1 ✓	Grab	GW		4/4/24	845	7	X				X	X	X	X		01
MW-2 ✓		GW			925	9	X	X			X	X	X	X		02
MW-4 ✓		GW			935	9	X	X			X	X	X	X		03
MW-5 ✓		GW			1130	13	X	X	X	X	X	X	X	X		04
MW-6 ✓		GW			925	9	X	X			X	X	X	X		05
MW-8 ✓		GW			825	7	X				X	X	X	X		06
MW-9 ✓		GW			1025	1	X									07
MW-10 ✓		GW			1105	1	X									08
MW-11R ✓		GW			845	9	X	X			X	X	X	X		09
MW-13R ✓		GW			1050	9	X	X			X	X	X	X		10

Chain of Custody Page 1 of 5

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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

L1722400
G049

Acctnum: **TRCATX**
Template: **T250273**
Prelogin: **P1066950**
PM: **526 - Chris McCord**
PB:

Shipped Via: **FedEX Standard**

* 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 # 6357 9917 9790

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
	4/4/24	1240		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: DPA °C Bottles Received: 1.2+0.1=1.3 304	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 45-24 Time: 900	Hold: Condition: NCF / OK

Company Name/Address:
TRC Solutions - Austin, TX

505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;aeljuri@trccompanie**

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT MT CT ET

Phone: **512-684-3176**

Client Project # **584880.0000.0000**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Greg Scherbenske - HME TERM

Site/Facility ID #

P.O. # **213735**

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS 250mlHDPE HNO3	TDS 500mlHDPE-NoPres	V8260 40mlAmb-HCl			Remarks	Sample # (lab only)
MW-14R ✓	Grab	GW		4/4/24	1025	9	X	X			X	X	X	X				-11
MW-15R ✓		GW			840	9	X	X			X	X	X	X				-12
MW-16R ✓		GW			1030	9	X	X			X	X	X	X				-13
MW-18R ✓		GW			940	9	X	X			X	X	X	X				-14
MW-19R ✓		GW			905	9	X	X			X	X	X	X				-15
MW-20R ✓		GW			950	9	X	X			X	X	X	X				-16
~~MW-22~~		GW				~~13~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	NOT SAMPLED; DRY			
MW-23R ✓		GW			1035	2	X						X					-17
MW-24R ✓		GW			1115	9	X	X			X	X	X	X				-18
MW-26R ✓		GW			1010	1	X											-19

Analysis / Container / Preservative

Chain of Custody Page 2 of 5

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SDG # L1727100

Table #

Acctnum: **TRCATX**
Template: **T250273**
Prelogin: **P1066950**
PM: **526 - Chris McCord**
PB:

Shipped Via: **FedEX Standard**

* 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 # 6357 9917 9790

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)
	4/4/24	1240	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: DPA 1.2+0.1=1.3 °C Bottles Received: 304

Date: 4-5-24 Time: 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;aeljuri@trccompanie**

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Please Circle: PT MT CT ET

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Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Greg Scherbenske - ITMD TCTM

Site/Facility ID #

P.O. # **213735**

Collected by (signature):

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Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS 250mlHDPE HNO3	TDS 500mlHDPE-NoPres	V8260 40mlAmb-HCl		Remarks	Sample # (lab only)
~~MW-28~~	Grab	~~GW~~				9	X	X			X	X	X	X	NOT	SAMPLED ; DRY	
~~MW-29~~	↓	~~GW~~				9	X	X			X	X	X	X	NOT	Sampled ; DRY	

Chain of Custody Page 3 of 5

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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 # L1722760

Table #

Acctnum: **TRCATX**
Template: **T250273**
Prelogin: **P1066950**
PM: **526 - Chris McCord**
PB:

Shipped Via: **FedEX Standard**

* 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 # 6357 9917 9790

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	
	4/4/24	1240		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: DPA 1.2+0.1=1.3 °C	Bottles Received: 304
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-5-24	Time: 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: jspeer@trccompanies.com;aeljuri@trccompanie

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT MT CT ET

Phone: **512-684-3176**

Client Project # **584880.0000.0000**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Greg Sherbrooke - HMT TEAM

Site/Facility ID #

P.O. # **213735**

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 4 of 5

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN
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SDG # L1722760

Table #

Acctnum: **TRCATX**
Template: **T250436**
Prelogin: **P1067351**
PM: **526 - Chris McCord**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	ALK,TDS 500mlHDPE-NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS 250mlHDPE HNO3	V8260 40mlAmb-HCl			Remarks	Sample # (lab only)
MW-3 ✓	Grab	GW		4/4/24	925	1	X											-20
MW-12R2 ✓		GW			1115	9	X	X	X			X	X	X				-21
~~MW-17R~~		~~GW~~				~~9~~	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		NOT SAMPLED;	DRY	
~~MW-30~~		~~GW~~				~~9~~	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		NOT SAMPLED;	DRY	
~~MW-31~~		~~GW~~				~~13~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		NOT SAMPLED;	UNABLE	
MW-32 ✓		GW			850	13	X	X	X	X	X	X	X	X				-22
MW-33 ✓		GW			1000	33	X	X	X	X	X	X	X	X		O	= MS/MSD VOLUME PROVIDED	-23
WW-NORTH ✓		GW			950	13	X	X	X	X	X	X	X	X				-24
WW-SOUTH ✓		GW			905	13	X	X	X	X	X	X	X	X				-25
WW-EAST ✓		GW			1050	13	X	X	X	X	X	X	X	X				-26

* 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 # 6357 9917 9790

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: ✓ __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
	4/4/24	1240		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: DPA7C Bottles Received: 1.2 +0.1 = 1.3 304	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Ei Doan 17	Date: 4-5-24 Time: 900	Hold: / Condition: NCF / OK

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;aeljuri@trccompanie**

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT MT CT ET

Phone: **512-684-3176**

Client Project # **584880.0000.0000**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Greg Scherbenske - HMT

Site/Facility ID #

P.O. # **213735**

Collected by (signature): Greg Scherbenske

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	ALK,TDS 500mlHDPE-NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS 250mlHDPE HNO3	V8260 40mlAmb-HCl			Remarks	Sample # (lab only)
DUP-01	Grab	GW		4/4/24	1000	13	X	X	X	X	X	X	X	X				-27
DUP-02		GW			1000	13	X	X	X	X	X	X	X	X				-28
DUP-03		GW			1100	13	X	X	X	X	X	X	X	X				-29
EB-01		GW			1110	13	X	X	X	X	X	X	X	X				-30
EB-02		GW			825	9	X	X	X			X	X	X				-31
		GW				13	X	X	X	X	X	X	X	X				
		GW				13	X	X	X	X	X	X	X	X				
TRIP BLANK-01		GW		4/4/24	—	1								X				-32
TRIP BLANK-02		GW			—	1								X				

Chain of Custody Page 5 of 5

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MT JULIET, TN

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SDG # L1722960

Table #

Acctnum: **TRCATX**
Template: **T250436**
Prelogin: **P1067351**
PM: **526 - Chris McCord**
PB:

Shipped Via:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier _____

Tracking # 6357 9917 9790

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
Greg Scherbenske	4/4/24	1210		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: DPA/C 1.2+0.1=1.3 Bottles Received: 304	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Ei Dunn 17	Date: 4-5-24 Time: 900	Hold: Condition: NCF / OK

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U17227760

Tracking Numbers		Temperature
6357 9917 9790		1.2 = 1.3
7320 9667 2614		0.5 = 0.6
7320 9667 2636		1.1 = 1.2
7320 9667 2603		0.9 = 1.0
7320 9667 2647		0.5 = 0.6
7320 9667 2599		1.4 = 1.5
7320 9667 2625		0.3 = 0.4

Eli Dossett
Name

4-5-24
Date

Received by OCD: 4/15/2025 7:55:48 AM

Released to Imaging: 5/2/2025 9:53:52 AM

ANALYTICAL REPORT

August 19, 2024

TRC Solutions - Austin, TX

Sample Delivery Group:	L1758454
Samples Received:	07/19/2024
Project Number:	377274.0000.0000.
Description:	Lovington Lea Refinery

Report To: Julie Speer
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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

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WW-NORTH L1758454-01 GW

Collected by: Bryan Bayles | Collected date/time: 07/18/24 10:10 | Received date/time: 07/19/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2328515	1	07/23/24 14:37	07/24/24 12:10	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2326473	1	07/19/24 21:06	07/19/24 21:06	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2326658	1	07/21/24 16:36	07/22/24 12:31	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2327787	1	07/30/24 13:04	07/30/24 18:27	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2328262	1	07/26/24 15:05	08/14/24 16:45	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328823	1	07/24/24 16:55	07/24/24 16:55	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2328469	1	07/23/24 15:03	07/23/24 15:03	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2330436	1	07/26/24 08:29	07/28/24 10:26	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2329378	1	07/24/24 15:53	07/24/24 23:19	DSH	Mt. Juliet, TN

WW-SOUTH L1758454-02 GW

Collected by: Bryan Bayles | Collected date/time: 07/18/24 09:25 | Received date/time: 07/19/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2328515	1	07/23/24 14:37	07/24/24 12:10	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2326473	1	07/19/24 21:57	07/19/24 21:57	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2326473	10	07/19/24 22:10	07/19/24 22:10	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2326660	1	07/21/24 16:35	07/22/24 12:53	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2327787	1	07/30/24 13:04	07/30/24 18:29	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2328262	1	07/26/24 15:05	08/14/24 18:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328823	1	07/24/24 17:17	07/24/24 17:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2328469	1	07/23/24 15:24	07/23/24 15:24	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2330436	1	07/26/24 08:29	07/28/24 10:46	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2329378	1	07/24/24 15:53	07/24/24 23:41	DSH	Mt. Juliet, TN

WW-EAST L1758454-03 GW

Collected by: Bryan Bayles | Collected date/time: 07/18/24 10:55 | Received date/time: 07/19/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2328515	1	07/23/24 14:37	07/24/24 12:10	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2326473	1	07/19/24 22:23	07/19/24 22:23	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2326660	1	07/21/24 16:35	07/22/24 12:55	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2327787	1	07/30/24 13:04	07/30/24 18:31	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2328262	1	07/26/24 15:05	08/14/24 18:04	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328823	1	07/24/24 17:39	07/24/24 17:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2328469	1	07/23/24 15:46	07/23/24 15:46	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2330436	1	07/26/24 08:29	07/28/24 11:06	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2329378	1	07/24/24 15:53	07/25/24 00:02	DSH	Mt. Juliet, TN

DUP-01 L1758454-04 GW

Collected by: Bryan Bayles | Collected date/time: 07/18/24 10:00 | Received date/time: 07/19/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2328515	1	07/23/24 14:37	07/24/24 12:10	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2326473	1	07/19/24 22:49	07/19/24 22:49	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2326473	10	07/19/24 23:01	07/19/24 23:01	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2326660	1	07/21/24 16:35	07/22/24 12:57	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2327787	1	07/30/24 13:04	07/30/24 18:36	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2328262	1	07/26/24 15:05	08/14/24 18:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328823	1	07/24/24 18:01	07/24/24 18:01	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2328469	1	07/23/24 16:07	07/23/24 16:07	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2330436	1	07/26/24 08:29	07/28/24 11:27	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2329378	1	07/24/24 15:53	07/25/24 00:24	DSH	Mt. Juliet, TN

SAMPLE SUMMARY

TRIP BLANK L1758454-05 GW

Collected by: Bryan Bayles
Collected date/time: 07/18/24 00:00
Received date/time: 07/19/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2328469	1	07/23/24 14:20	07/23/24 14:20	DYW	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.



Chris McCord
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	530		10.0	1	07/24/2024 12:10	WG2328515

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	119		0.379	1.00	1	07/19/2024 21:06	WG2326473
Fluoride	0.797		0.0640	0.150	1	07/19/2024 21:06	WG2326473
Nitrate	2.65		0.0480	0.100	1	07/19/2024 21:06	WG2326473
Nitrite	U		0.0420	0.100	1	07/19/2024 21:06	WG2326473
Sulfate	77.9		0.594	5.00	1	07/19/2024 21:06	WG2326473

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	07/22/2024 12:31	WG2326658

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.139	J	0.0200	0.200	1	07/30/2024 18:27	WG2327787

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	08/14/2024 16:45	WG2328262
Arsenic,Dissolved	0.00592		0.000180	0.00200	1	08/14/2024 16:45	WG2328262
Barium,Dissolved	0.105		0.000381	0.00200	1	08/14/2024 16:45	WG2328262
Cadmium,Dissolved	U		0.000150	0.00100	1	08/14/2024 16:45	WG2328262
Chromium,Dissolved	0.00238		0.00124	0.00200	1	08/14/2024 16:45	WG2328262
Copper,Dissolved	U		0.00151	0.00500	1	08/14/2024 16:45	WG2328262
Cobalt,Dissolved	U		0.0000596	0.00200	1	08/14/2024 16:45	WG2328262
Iron,Dissolved	U		0.0281	0.100	1	08/14/2024 16:45	WG2328262
Lead,Dissolved	U		0.000849	0.00200	1	08/14/2024 16:45	WG2328262
Manganese,Dissolved	0.000727	J	0.000704	0.00500	1	08/14/2024 16:45	WG2328262
Molybdenum,Dissolved	0.00272	J	0.000348	0.00500	1	08/14/2024 16:45	WG2328262
Nickel,Dissolved	U		0.000816	0.00200	1	08/14/2024 16:45	WG2328262
Selenium,Dissolved	0.00360		0.000300	0.00200	1	08/14/2024 16:45	WG2328262
Silver,Dissolved	U		0.0000700	0.00200	1	08/14/2024 16:45	WG2328262
Uranium,Dissolved	0.00156	J	0.0000700	0.0200	1	08/14/2024 16:45	WG2328262
Zinc,Dissolved	0.00519	J	0.00302	0.0250	1	08/14/2024 16:45	WG2328262

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/24/2024 16:55	WG2328823
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*78.0-120*		*07/24/2024 16:55*	WG2328823

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	07/23/2024 15:03	WG2328469
Benzene	U		0.0000941	0.00100	1	07/23/2024 15:03	WG2328469
Bromodichloromethane	U		0.000136	0.00100	1	07/23/2024 15:03	WG2328469
Bromoform	U		0.000129	0.00100	1	07/23/2024 15:03	WG2328469
Bromomethane	U		0.000605	0.00500	1	07/23/2024 15:03	WG2328469
n-Butylbenzene	U		0.000157	0.00100	1	07/23/2024 15:03	WG2328469
sec-Butylbenzene	U		0.000125	0.00100	1	07/23/2024 15:03	WG2328469
tert-Butylbenzene	U		0.000127	0.00100	1	07/23/2024 15:03	WG2328469
Carbon disulfide	U		0.0000962	0.00100	1	07/23/2024 15:03	WG2328469
Carbon tetrachloride	U	J4	0.000128	0.00100	1	07/23/2024 15:03	WG2328469
Chlorobenzene	U		0.000116	0.00100	1	07/23/2024 15:03	WG2328469
Chlorodibromomethane	U		0.000140	0.00100	1	07/23/2024 15:03	WG2328469
Chloroethane	U		0.000192	0.00500	1	07/23/2024 15:03	WG2328469
Chloroform	U		0.000111	0.00500	1	07/23/2024 15:03	WG2328469
Chloromethane	U		0.000960	0.00250	1	07/23/2024 15:03	WG2328469
1,2-Dibromoethane	U		0.000126	0.00100	1	07/23/2024 15:03	WG2328469
1,1-Dichloroethane	U		0.000100	0.00100	1	07/23/2024 15:03	WG2328469
1,2-Dichloroethane	U		0.0000819	0.00100	1	07/23/2024 15:03	WG2328469
1,1-Dichloroethene	U		0.000188	0.00100	1	07/23/2024 15:03	WG2328469
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	07/23/2024 15:03	WG2328469
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	07/23/2024 15:03	WG2328469
1,2-Dichloropropane	U		0.000149	0.00100	1	07/23/2024 15:03	WG2328469
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	07/23/2024 15:03	WG2328469
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	07/23/2024 15:03	WG2328469
Ethylbenzene	U		0.000137	0.00100	1	07/23/2024 15:03	WG2328469
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	07/23/2024 15:03	WG2328469
2-Hexanone	U	J4	0.000787	0.0100	1	07/23/2024 15:03	WG2328469
Isopropylbenzene	U		0.000105	0.00100	1	07/23/2024 15:03	WG2328469
p-Isopropyltoluene	U		0.000120	0.00100	1	07/23/2024 15:03	WG2328469
2-Butanone (MEK)	U		0.00119	0.0100	1	07/23/2024 15:03	WG2328469
Methylene Chloride	U		0.000430	0.00500	1	07/23/2024 15:03	WG2328469
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	07/23/2024 15:03	WG2328469
Methyl tert-butyl ether	U		0.000101	0.00100	1	07/23/2024 15:03	WG2328469
Naphthalene	U		0.00100	0.00500	1	07/23/2024 15:03	WG2328469
n-Propylbenzene	U		0.0000993	0.00100	1	07/23/2024 15:03	WG2328469
Styrene	U		0.000118	0.00100	1	07/23/2024 15:03	WG2328469
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	07/23/2024 15:03	WG2328469
Tetrachloroethene	U		0.000300	0.00100	1	07/23/2024 15:03	WG2328469
Toluene	U		0.000278	0.00100	1	07/23/2024 15:03	WG2328469
1,1,1-Trichloroethane	U		0.000149	0.00100	1	07/23/2024 15:03	WG2328469
1,1,2-Trichloroethane	U		0.000158	0.00100	1	07/23/2024 15:03	WG2328469
Trichloroethene	U		0.000190	0.00100	1	07/23/2024 15:03	WG2328469
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/23/2024 15:03	WG2328469
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/23/2024 15:03	WG2328469
Vinyl chloride	U		0.000234	0.00100	1	07/23/2024 15:03	WG2328469
Xylenes, Total	U		0.000174	0.00300	1	07/23/2024 15:03	WG2328469
(S) Toluene-d8	*106*			*80.0-120*		*07/23/2024 15:03*	WG2328469
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/23/2024 15:03*	WG2328469
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*07/23/2024 15:03*	WG2328469

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0459	B J	0.0247	0.100	1	07/28/2024 10:26	WG2330436
(S) o-Terphenyl	*101*			*52.0-156*		*07/28/2024 10:26*	WG2330436

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	07/24/2024 23:19	WG2329378
Acenaphthylene	U		0.0000921	0.00100	1	07/24/2024 23:19	WG2329378
Acetophenone	U		0.000208	0.0100	1	07/24/2024 23:19	WG2329378
Anthracene	U		0.0000804	0.00100	1	07/24/2024 23:19	WG2329378
Atrazine	U		0.000255	0.0100	1	07/24/2024 23:19	WG2329378
Benzo(a)anthracene	U		0.000199	0.00100	1	07/24/2024 23:19	WG2329378
Benzaldehyde	U	J4	0.00169	0.0100	1	07/24/2024 23:19	WG2329378
Benzo(b)fluoranthene	U		0.000130	0.00100	1	07/24/2024 23:19	WG2329378
Benzo(k)fluoranthene	U		0.000120	0.00100	1	07/24/2024 23:19	WG2329378
Benzo(g,h,i)perylene	U	J3	0.000121	0.00100	1	07/24/2024 23:19	WG2329378
Benzo(a)pyrene	U	J3	0.0000381	0.000200	1	07/24/2024 23:19	WG2329378
Biphenyl	U		0.000790	0.0100	1	07/24/2024 23:19	WG2329378
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	07/24/2024 23:19	WG2329378
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	07/24/2024 23:19	WG2329378
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	07/24/2024 23:19	WG2329378
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	07/24/2024 23:19	WG2329378
2-Chloronaphthalene	U		0.0000648	0.00100	1	07/24/2024 23:19	WG2329378
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	07/24/2024 23:19	WG2329378
Caprolactam	U		0.000309	0.0100	1	07/24/2024 23:19	WG2329378
Carbazole	U		0.000111	0.0100	1	07/24/2024 23:19	WG2329378
Chrysene	U		0.000130	0.00100	1	07/24/2024 23:19	WG2329378
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	07/24/2024 23:19	WG2329378
Dibenzofuran	U		0.0000970	0.0100	1	07/24/2024 23:19	WG2329378
3,3-Dichlorobenzidine	U	J3	0.000212	0.0100	1	07/24/2024 23:19	WG2329378
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	07/24/2024 23:19	WG2329378
2,6-Dinitrotoluene	U		0.000250	0.0100	1	07/24/2024 23:19	WG2329378
Fluoranthene	U		0.000102	0.00100	1	07/24/2024 23:19	WG2329378
Fluorene	U		0.0000844	0.00100	1	07/24/2024 23:19	WG2329378
Hexachlorobenzene	U		0.0000755	0.00100	1	07/24/2024 23:19	WG2329378
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	07/24/2024 23:19	WG2329378
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	07/24/2024 23:19	WG2329378
Hexachloroethane	U		0.000127	0.0100	1	07/24/2024 23:19	WG2329378
Indeno(1,2,3-cd)pyrene	U	J3	0.000279	0.00100	1	07/24/2024 23:19	WG2329378
Isophorone	U		0.000143	0.0100	1	07/24/2024 23:19	WG2329378
1-Methylnaphthalene	U		0.0000790	0.00100	1	07/24/2024 23:19	WG2329378
2-Methylnaphthalene	U		0.000117	0.00100	1	07/24/2024 23:19	WG2329378
Naphthalene	U		0.000159	0.00100	1	07/24/2024 23:19	WG2329378
Nitrobenzene	U		0.000297	0.0100	1	07/24/2024 23:19	WG2329378
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	07/24/2024 23:19	WG2329378
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	07/24/2024 23:19	WG2329378
Phenanthrene	U		0.000112	0.00100	1	07/24/2024 23:19	WG2329378
Benzylbutyl phthalate	U		0.000765	0.00300	1	07/24/2024 23:19	WG2329378
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	07/24/2024 23:19	WG2329378
Di-n-butyl phthalate	U		0.000453	0.00300	1	07/24/2024 23:19	WG2329378
Diethyl phthalate	U		0.000287	0.00300	1	07/24/2024 23:19	WG2329378
Dimethyl phthalate	U		0.000260	0.00300	1	07/24/2024 23:19	WG2329378
Di-n-octyl phthalate	U		0.000932	0.00300	1	07/24/2024 23:19	WG2329378
Pyrene	U		0.000107	0.00100	1	07/24/2024 23:19	WG2329378
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	07/24/2024 23:19	WG2329378
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	07/24/2024 23:19	WG2329378
2-Chlorophenol	U	J3	0.000133	0.0100	1	07/24/2024 23:19	WG2329378
2,4-Dichlorophenol	U	J3	0.000102	0.0100	1	07/24/2024 23:19	WG2329378
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	07/24/2024 23:19	WG2329378
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	07/24/2024 23:19	WG2329378
2,4-Dinitrophenol	U		0.00593	0.0100	1	07/24/2024 23:19	WG2329378
2-Nitrophenol	U		0.000117	0.0100	1	07/24/2024 23:19	WG2329378

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	07/24/2024 23:19	WG2329378
2-Methylphenol	U	J3	0.0000929	0.0100	1	07/24/2024 23:19	WG2329378
3&4-Methyl Phenol	U	J3	0.000168	0.0100	1	07/24/2024 23:19	WG2329378
3-Nitroaniline	U	J3	0.0000869	0.0100	1	07/24/2024 23:19	WG2329378
4-Chloroaniline	U	J3	0.000234	0.0100	1	07/24/2024 23:19	WG2329378
4-Nitroaniline	U	J3	0.0000910	0.0100	1	07/24/2024 23:19	WG2329378
4-Nitrophenol	U	J3	0.000143	0.0100	1	07/24/2024 23:19	WG2329378
Pentachlorophenol	U		0.000313	0.0100	1	07/24/2024 23:19	WG2329378
Phenol	U		0.00433	0.0100	1	07/24/2024 23:19	WG2329378
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	07/24/2024 23:19	WG2329378
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	07/24/2024 23:19	WG2329378
(S) 2-Fluorophenol	*29.5*			*10.0-120*		*07/24/2024 23:19*	WG2329378
(S) Phenol-d5	*25.6*			*10.0-120*		*07/24/2024 23:19*	WG2329378
(S) Nitrobenzene-d5	*73.2*			*10.0-127*		*07/24/2024 23:19*	WG2329378
(S) 2-Fluorobiphenyl	*68.3*			*10.0-130*		*07/24/2024 23:19*	WG2329378
(S) 2,4,6-Tribromophenol	*69.4*			*10.0-155*		*07/24/2024 23:19*	WG2329378
(S) p-Terphenyl-d14	*72.2*			*10.0-128*		*07/24/2024 23:19*	WG2329378

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	823		13.3	1	07/24/2024 12:10	WG2328515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	245		3.79	10.0	10	07/19/2024 22:10	WG2326473
Fluoride	0.705		0.0640	0.150	1	07/19/2024 21:57	WG2326473
Nitrate	2.87		0.0480	0.100	1	07/19/2024 21:57	WG2326473
Nitrite	U		0.0420	0.100	1	07/19/2024 21:57	WG2326473
Sulfate	87.0		0.594	5.00	1	07/19/2024 21:57	WG2326473

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	07/22/2024 12:53	WG2326660

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.177	J	0.0200	0.200	1	07/30/2024 18:29	WG2327787

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	08/14/2024 18:01	WG2328262
Arsenic,Dissolved	0.00476		0.000180	0.00200	1	08/14/2024 18:01	WG2328262
Barium,Dissolved	0.101		0.000381	0.00200	1	08/14/2024 18:01	WG2328262
Cadmium,Dissolved	U		0.000150	0.00100	1	08/14/2024 18:01	WG2328262
Chromium,Dissolved	U		0.00124	0.00200	1	08/14/2024 18:01	WG2328262
Copper,Dissolved	U		0.00151	0.00500	1	08/14/2024 18:01	WG2328262
Cobalt,Dissolved	U		0.0000596	0.00200	1	08/14/2024 18:01	WG2328262
Iron,Dissolved	0.0312	J	0.0281	0.100	1	08/14/2024 18:01	WG2328262
Lead,Dissolved	U		0.000849	0.00200	1	08/14/2024 18:01	WG2328262
Manganese,Dissolved	0.00265	J	0.000704	0.00500	1	08/14/2024 18:01	WG2328262
Molybdenum,Dissolved	0.00209	J	0.000348	0.00500	1	08/14/2024 18:01	WG2328262
Nickel,Dissolved	0.00139	J	0.000816	0.00200	1	08/14/2024 18:01	WG2328262
Selenium,Dissolved	0.00327		0.000300	0.00200	1	08/14/2024 18:01	WG2328262
Silver,Dissolved	U		0.0000700	0.00200	1	08/14/2024 18:01	WG2328262
Uranium,Dissolved	0.00204	J	0.0000700	0.0200	1	08/14/2024 18:01	WG2328262
Zinc,Dissolved	0.0182	J	0.00302	0.0250	1	08/14/2024 18:01	WG2328262

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/24/2024 17:17	WG2328823
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*07/24/2024 17:17*	WG2328823

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	07/23/2024 15:24	WG2328469
Benzene	U		0.0000941	0.00100	1	07/23/2024 15:24	WG2328469
Bromodichloromethane	U		0.000136	0.00100	1	07/23/2024 15:24	WG2328469
Bromoform	U		0.000129	0.00100	1	07/23/2024 15:24	WG2328469
Bromomethane	U		0.000605	0.00500	1	07/23/2024 15:24	WG2328469
n-Butylbenzene	U		0.000157	0.00100	1	07/23/2024 15:24	WG2328469
sec-Butylbenzene	U		0.000125	0.00100	1	07/23/2024 15:24	WG2328469
tert-Butylbenzene	U		0.000127	0.00100	1	07/23/2024 15:24	WG2328469
Carbon disulfide	U		0.0000962	0.00100	1	07/23/2024 15:24	WG2328469
Carbon tetrachloride	0.000355	J J4	0.000128	0.00100	1	07/23/2024 15:24	WG2328469
Chlorobenzene	U		0.000116	0.00100	1	07/23/2024 15:24	WG2328469
Chlorodibromomethane	U		0.000140	0.00100	1	07/23/2024 15:24	WG2328469
Chloroethane	U		0.000192	0.00500	1	07/23/2024 15:24	WG2328469
Chloroform	0.000838	J	0.000111	0.00500	1	07/23/2024 15:24	WG2328469
Chloromethane	U		0.000960	0.00250	1	07/23/2024 15:24	WG2328469
1,2-Dibromoethane	U		0.000126	0.00100	1	07/23/2024 15:24	WG2328469
1,1-Dichloroethane	U		0.000100	0.00100	1	07/23/2024 15:24	WG2328469
1,2-Dichloroethane	U		0.0000819	0.00100	1	07/23/2024 15:24	WG2328469
1,1-Dichloroethene	U		0.000188	0.00100	1	07/23/2024 15:24	WG2328469
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	07/23/2024 15:24	WG2328469
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	07/23/2024 15:24	WG2328469
1,2-Dichloropropane	U		0.000149	0.00100	1	07/23/2024 15:24	WG2328469
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	07/23/2024 15:24	WG2328469
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	07/23/2024 15:24	WG2328469
Ethylbenzene	U		0.000137	0.00100	1	07/23/2024 15:24	WG2328469
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	07/23/2024 15:24	WG2328469
2-Hexanone	U	J4	0.000787	0.0100	1	07/23/2024 15:24	WG2328469
Isopropylbenzene	U		0.000105	0.00100	1	07/23/2024 15:24	WG2328469
p-Isopropyltoluene	U		0.000120	0.00100	1	07/23/2024 15:24	WG2328469
2-Butanone (MEK)	U		0.00119	0.0100	1	07/23/2024 15:24	WG2328469
Methylene Chloride	U		0.000430	0.00500	1	07/23/2024 15:24	WG2328469
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	07/23/2024 15:24	WG2328469
Methyl tert-butyl ether	U		0.000101	0.00100	1	07/23/2024 15:24	WG2328469
Naphthalene	U		0.00100	0.00500	1	07/23/2024 15:24	WG2328469
n-Propylbenzene	U		0.0000993	0.00100	1	07/23/2024 15:24	WG2328469
Styrene	U		0.000118	0.00100	1	07/23/2024 15:24	WG2328469
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	07/23/2024 15:24	WG2328469
Tetrachloroethene	U		0.000300	0.00100	1	07/23/2024 15:24	WG2328469
Toluene	U		0.000278	0.00100	1	07/23/2024 15:24	WG2328469
1,1,1-Trichloroethane	U		0.000149	0.00100	1	07/23/2024 15:24	WG2328469
1,1,2-Trichloroethane	U		0.000158	0.00100	1	07/23/2024 15:24	WG2328469
Trichloroethene	U		0.000190	0.00100	1	07/23/2024 15:24	WG2328469
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/23/2024 15:24	WG2328469
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/23/2024 15:24	WG2328469
Vinyl chloride	U		0.000234	0.00100	1	07/23/2024 15:24	WG2328469
Xylenes, Total	U		0.000174	0.00300	1	07/23/2024 15:24	WG2328469
(S) Toluene-d8	*106*			*80.0-120*		*07/23/2024 15:24*	WG2328469
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/23/2024 15:24*	WG2328469
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/23/2024 15:24*	WG2328469

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	07/28/2024 10:46	WG2330436
(S) o-Terphenyl	*95.8*			*52.0-156*		*07/28/2024 10:46*	WG2330436

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	07/24/2024 23:41	WG2329378
Acenaphthylene	U		0.0000921	0.00100	1	07/24/2024 23:41	WG2329378
Acetophenone	U		0.000208	0.0100	1	07/24/2024 23:41	WG2329378
Anthracene	U		0.0000804	0.00100	1	07/24/2024 23:41	WG2329378
Atrazine	U		0.000255	0.0100	1	07/24/2024 23:41	WG2329378
Benzo(a)anthracene	U		0.000199	0.00100	1	07/24/2024 23:41	WG2329378
Benzaldehyde	U	J4	0.00169	0.0100	1	07/24/2024 23:41	WG2329378
Benzo(b)fluoranthene	U		0.000130	0.00100	1	07/24/2024 23:41	WG2329378
Benzo(k)fluoranthene	U		0.000120	0.00100	1	07/24/2024 23:41	WG2329378
Benzo(g,h,i)perylene	U	J3	0.000121	0.00100	1	07/24/2024 23:41	WG2329378
Benzo(a)pyrene	U	J3	0.0000381	0.000200	1	07/24/2024 23:41	WG2329378
Biphenyl	U		0.000790	0.0100	1	07/24/2024 23:41	WG2329378
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	07/24/2024 23:41	WG2329378
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	07/24/2024 23:41	WG2329378
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	07/24/2024 23:41	WG2329378
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	07/24/2024 23:41	WG2329378
2-Chloronaphthalene	U		0.0000648	0.00100	1	07/24/2024 23:41	WG2329378
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	07/24/2024 23:41	WG2329378
Caprolactam	0.00107	J	0.000309	0.0100	1	07/24/2024 23:41	WG2329378
Carbazole	U		0.000111	0.0100	1	07/24/2024 23:41	WG2329378
Chrysene	U		0.000130	0.00100	1	07/24/2024 23:41	WG2329378
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	07/24/2024 23:41	WG2329378
Dibenzofuran	U		0.0000970	0.0100	1	07/24/2024 23:41	WG2329378
3,3-Dichlorobenzidine	U	J3	0.000212	0.0100	1	07/24/2024 23:41	WG2329378
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	07/24/2024 23:41	WG2329378
2,6-Dinitrotoluene	U		0.000250	0.0100	1	07/24/2024 23:41	WG2329378
Fluoranthene	U		0.000102	0.00100	1	07/24/2024 23:41	WG2329378
Fluorene	U		0.0000844	0.00100	1	07/24/2024 23:41	WG2329378
Hexachlorobenzene	U		0.0000755	0.00100	1	07/24/2024 23:41	WG2329378
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	07/24/2024 23:41	WG2329378
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	07/24/2024 23:41	WG2329378
Hexachloroethane	U		0.000127	0.0100	1	07/24/2024 23:41	WG2329378
Indeno(1,2,3-cd)pyrene	U	J3	0.000279	0.00100	1	07/24/2024 23:41	WG2329378
Isophorone	U		0.000143	0.0100	1	07/24/2024 23:41	WG2329378
1-Methylnaphthalene	U		0.0000790	0.00100	1	07/24/2024 23:41	WG2329378
2-Methylnaphthalene	U		0.000117	0.00100	1	07/24/2024 23:41	WG2329378
Naphthalene	U		0.000159	0.00100	1	07/24/2024 23:41	WG2329378
Nitrobenzene	U		0.000297	0.0100	1	07/24/2024 23:41	WG2329378
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	07/24/2024 23:41	WG2329378
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	07/24/2024 23:41	WG2329378
Phenanthrene	U		0.000112	0.00100	1	07/24/2024 23:41	WG2329378
Benzylbutyl phthalate	U		0.000765	0.00300	1	07/24/2024 23:41	WG2329378
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	07/24/2024 23:41	WG2329378
Di-n-butyl phthalate	U		0.000453	0.00300	1	07/24/2024 23:41	WG2329378
Diethyl phthalate	U		0.000287	0.00300	1	07/24/2024 23:41	WG2329378
Dimethyl phthalate	U		0.000260	0.00300	1	07/24/2024 23:41	WG2329378
Di-n-octyl phthalate	U		0.000932	0.00300	1	07/24/2024 23:41	WG2329378
Pyrene	U		0.000107	0.00100	1	07/24/2024 23:41	WG2329378
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	07/24/2024 23:41	WG2329378
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	07/24/2024 23:41	WG2329378
2-Chlorophenol	U	J3	0.000133	0.0100	1	07/24/2024 23:41	WG2329378
2,4-Dichlorophenol	U	J3	0.000102	0.0100	1	07/24/2024 23:41	WG2329378
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	07/24/2024 23:41	WG2329378
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	07/24/2024 23:41	WG2329378
2,4-Dinitrophenol	U		0.00593	0.0100	1	07/24/2024 23:41	WG2329378
2-Nitrophenol	U		0.000117	0.0100	1	07/24/2024 23:41	WG2329378

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	07/24/2024 23:41	WG2329378
2-Methylphenol	U	J3	0.0000929	0.0100	1	07/24/2024 23:41	WG2329378
3&4-Methyl Phenol	U	J3	0.000168	0.0100	1	07/24/2024 23:41	WG2329378
3-Nitroaniline	U	J3	0.0000869	0.0100	1	07/24/2024 23:41	WG2329378
4-Chloroaniline	U	J3	0.000234	0.0100	1	07/24/2024 23:41	WG2329378
4-Nitroaniline	U	J3	0.0000910	0.0100	1	07/24/2024 23:41	WG2329378
4-Nitrophenol	U	J3	0.000143	0.0100	1	07/24/2024 23:41	WG2329378
Pentachlorophenol	U		0.000313	0.0100	1	07/24/2024 23:41	WG2329378
Phenol	U		0.00433	0.0100	1	07/24/2024 23:41	WG2329378
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	07/24/2024 23:41	WG2329378
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	07/24/2024 23:41	WG2329378
(S) 2-Fluorophenol	*29.3*			*10.0-120*		*07/24/2024 23:41*	WG2329378
(S) Phenol-d5	*25.1*			*10.0-120*		*07/24/2024 23:41*	WG2329378
(S) Nitrobenzene-d5	*70.0*			*10.0-127*		*07/24/2024 23:41*	WG2329378
(S) 2-Fluorobiphenyl	*64.5*			*10.0-130*		*07/24/2024 23:41*	WG2329378
(S) 2,4,6-Tribromophenol	*68.4*			*10.0-155*		*07/24/2024 23:41*	WG2329378
(S) p-Terphenyl-d14	*68.5*			*10.0-128*		*07/24/2024 23:41*	WG2329378

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	475		10.0	1	07/24/2024 12:10	WG2328515

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	94.8		0.379	1.00	1	07/19/2024 22:23	WG2326473
Fluoride	0.801		0.0640	0.150	1	07/19/2024 22:23	WG2326473
Nitrate	2.51		0.0480	0.100	1	07/19/2024 22:23	WG2326473
Nitrite	U		0.0420	0.100	1	07/19/2024 22:23	WG2326473
Sulfate	83.2		0.594	5.00	1	07/19/2024 22:23	WG2326473

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	07/22/2024 12:55	WG2326660

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.138	J	0.0200	0.200	1	07/30/2024 18:31	WG2327787

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	08/14/2024 18:04	WG2328262
Arsenic,Dissolved	0.00512		0.000180	0.00200	1	08/14/2024 18:04	WG2328262
Barium,Dissolved	0.0802		0.000381	0.00200	1	08/14/2024 18:04	WG2328262
Cadmium,Dissolved	U		0.000150	0.00100	1	08/14/2024 18:04	WG2328262
Chromium,Dissolved	0.00255		0.00124	0.00200	1	08/14/2024 18:04	WG2328262
Copper,Dissolved	0.00163	J	0.00151	0.00500	1	08/14/2024 18:04	WG2328262
Cobalt,Dissolved	U		0.0000596	0.00200	1	08/14/2024 18:04	WG2328262
Iron,Dissolved	U		0.0281	0.100	1	08/14/2024 18:04	WG2328262
Lead,Dissolved	U		0.000849	0.00200	1	08/14/2024 18:04	WG2328262
Manganese,Dissolved	0.00152	J	0.000704	0.00500	1	08/14/2024 18:04	WG2328262
Molybdenum,Dissolved	0.00241	J	0.000348	0.00500	1	08/14/2024 18:04	WG2328262
Nickel,Dissolved	0.000836	J	0.000816	0.00200	1	08/14/2024 18:04	WG2328262
Selenium,Dissolved	0.00359		0.000300	0.00200	1	08/14/2024 18:04	WG2328262
Silver,Dissolved	U		0.0000700	0.00200	1	08/14/2024 18:04	WG2328262
Uranium,Dissolved	0.00161	J	0.0000700	0.0200	1	08/14/2024 18:04	WG2328262
Zinc,Dissolved	0.00800	J	0.00302	0.0250	1	08/14/2024 18:04	WG2328262

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/24/2024 17:39	WG2328823
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*07/24/2024 17:39*	WG2328823

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	07/23/2024 15:46	WG2328469
Benzene	U		0.0000941	0.00100	1	07/23/2024 15:46	WG2328469
Bromodichloromethane	U		0.000136	0.00100	1	07/23/2024 15:46	WG2328469
Bromoform	U		0.000129	0.00100	1	07/23/2024 15:46	WG2328469
Bromomethane	U		0.000605	0.00500	1	07/23/2024 15:46	WG2328469
n-Butylbenzene	U		0.000157	0.00100	1	07/23/2024 15:46	WG2328469
sec-Butylbenzene	U		0.000125	0.00100	1	07/23/2024 15:46	WG2328469
tert-Butylbenzene	U		0.000127	0.00100	1	07/23/2024 15:46	WG2328469
Carbon disulfide	U		0.0000962	0.00100	1	07/23/2024 15:46	WG2328469
Carbon tetrachloride	U	J4	0.000128	0.00100	1	07/23/2024 15:46	WG2328469
Chlorobenzene	U		0.000116	0.00100	1	07/23/2024 15:46	WG2328469
Chlorodibromomethane	U		0.000140	0.00100	1	07/23/2024 15:46	WG2328469
Chloroethane	U		0.000192	0.00500	1	07/23/2024 15:46	WG2328469
Chloroform	U		0.000111	0.00500	1	07/23/2024 15:46	WG2328469
Chloromethane	U		0.000960	0.00250	1	07/23/2024 15:46	WG2328469
1,2-Dibromoethane	U		0.000126	0.00100	1	07/23/2024 15:46	WG2328469
1,1-Dichloroethane	U		0.000100	0.00100	1	07/23/2024 15:46	WG2328469
1,2-Dichloroethane	U		0.0000819	0.00100	1	07/23/2024 15:46	WG2328469
1,1-Dichloroethene	U		0.000188	0.00100	1	07/23/2024 15:46	WG2328469
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	07/23/2024 15:46	WG2328469
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	07/23/2024 15:46	WG2328469
1,2-Dichloropropane	U		0.000149	0.00100	1	07/23/2024 15:46	WG2328469
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	07/23/2024 15:46	WG2328469
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	07/23/2024 15:46	WG2328469
Ethylbenzene	U		0.000137	0.00100	1	07/23/2024 15:46	WG2328469
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	07/23/2024 15:46	WG2328469
2-Hexanone	U	J4	0.000787	0.0100	1	07/23/2024 15:46	WG2328469
Isopropylbenzene	U		0.000105	0.00100	1	07/23/2024 15:46	WG2328469
p-Isopropyltoluene	U		0.000120	0.00100	1	07/23/2024 15:46	WG2328469
2-Butanone (MEK)	U		0.00119	0.0100	1	07/23/2024 15:46	WG2328469
Methylene Chloride	U		0.000430	0.00500	1	07/23/2024 15:46	WG2328469
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	07/23/2024 15:46	WG2328469
Methyl tert-butyl ether	U		0.000101	0.00100	1	07/23/2024 15:46	WG2328469
Naphthalene	U		0.00100	0.00500	1	07/23/2024 15:46	WG2328469
n-Propylbenzene	U		0.0000993	0.00100	1	07/23/2024 15:46	WG2328469
Styrene	U		0.000118	0.00100	1	07/23/2024 15:46	WG2328469
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	07/23/2024 15:46	WG2328469
Tetrachloroethene	U		0.000300	0.00100	1	07/23/2024 15:46	WG2328469
Toluene	U		0.000278	0.00100	1	07/23/2024 15:46	WG2328469
1,1,1-Trichloroethane	U		0.000149	0.00100	1	07/23/2024 15:46	WG2328469
1,1,2-Trichloroethane	U		0.000158	0.00100	1	07/23/2024 15:46	WG2328469
Trichloroethene	U		0.000190	0.00100	1	07/23/2024 15:46	WG2328469
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/23/2024 15:46	WG2328469
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/23/2024 15:46	WG2328469
Vinyl chloride	U		0.000234	0.00100	1	07/23/2024 15:46	WG2328469
Xylenes, Total	U		0.000174	0.00300	1	07/23/2024 15:46	WG2328469
(S) Toluene-d8	*105*			*80.0-120*		*07/23/2024 15:46*	WG2328469
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/23/2024 15:46*	WG2328469
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/23/2024 15:46*	WG2328469

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	07/28/2024 11:06	WG2330436
(S) o-Terphenyl	*96.8*			*52.0-156*		*07/28/2024 11:06*	WG2330436

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acenaphthene	U		0.0000886	0.00100	1	07/25/2024 00:02	WG2329378
Acenaphthylene	U		0.0000921	0.00100	1	07/25/2024 00:02	WG2329378
Acetophenone	U		0.000208	0.0100	1	07/25/2024 00:02	WG2329378
Anthracene	U		0.0000804	0.00100	1	07/25/2024 00:02	WG2329378
Atrazine	U		0.000255	0.0100	1	07/25/2024 00:02	WG2329378
Benzo(a)anthracene	U		0.000199	0.00100	1	07/25/2024 00:02	WG2329378
Benzaldehyde	U	J4	0.00169	0.0100	1	07/25/2024 00:02	WG2329378
Benzo(b)fluoranthene	U		0.000130	0.00100	1	07/25/2024 00:02	WG2329378
Benzo(k)fluoranthene	U		0.000120	0.00100	1	07/25/2024 00:02	WG2329378
Benzo(g,h,i)perylene	U	J3	0.000121	0.00100	1	07/25/2024 00:02	WG2329378
Benzo(a)pyrene	U	J3	0.0000381	0.000200	1	07/25/2024 00:02	WG2329378
Biphenyl	U		0.000790	0.0100	1	07/25/2024 00:02	WG2329378
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	07/25/2024 00:02	WG2329378
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	07/25/2024 00:02	WG2329378
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	07/25/2024 00:02	WG2329378
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	07/25/2024 00:02	WG2329378
2-Chloronaphthalene	U		0.0000648	0.00100	1	07/25/2024 00:02	WG2329378
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	07/25/2024 00:02	WG2329378
Caprolactam	0.000821	J	0.000309	0.0100	1	07/25/2024 00:02	WG2329378
Carbazole	U		0.000111	0.0100	1	07/25/2024 00:02	WG2329378
Chrysene	U		0.000130	0.00100	1	07/25/2024 00:02	WG2329378
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	07/25/2024 00:02	WG2329378
Dibenzofuran	U		0.0000970	0.0100	1	07/25/2024 00:02	WG2329378
3,3-Dichlorobenzidine	U	J3	0.000212	0.0100	1	07/25/2024 00:02	WG2329378
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	07/25/2024 00:02	WG2329378
2,6-Dinitrotoluene	U		0.000250	0.0100	1	07/25/2024 00:02	WG2329378
Fluoranthene	U		0.000102	0.00100	1	07/25/2024 00:02	WG2329378
Fluorene	U		0.0000844	0.00100	1	07/25/2024 00:02	WG2329378
Hexachlorobenzene	U		0.0000755	0.00100	1	07/25/2024 00:02	WG2329378
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	07/25/2024 00:02	WG2329378
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	07/25/2024 00:02	WG2329378
Hexachloroethane	U		0.000127	0.0100	1	07/25/2024 00:02	WG2329378
Indeno(1,2,3-cd)pyrene	U	J3	0.000279	0.00100	1	07/25/2024 00:02	WG2329378
Isophorone	U		0.000143	0.0100	1	07/25/2024 00:02	WG2329378
1-Methylnaphthalene	U		0.0000790	0.00100	1	07/25/2024 00:02	WG2329378
2-Methylnaphthalene	U		0.000117	0.00100	1	07/25/2024 00:02	WG2329378
Naphthalene	U		0.000159	0.00100	1	07/25/2024 00:02	WG2329378
Nitrobenzene	U		0.000297	0.0100	1	07/25/2024 00:02	WG2329378
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	07/25/2024 00:02	WG2329378
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	07/25/2024 00:02	WG2329378
Phenanthrene	U		0.000112	0.00100	1	07/25/2024 00:02	WG2329378
Benzylbutyl phthalate	U		0.000765	0.00300	1	07/25/2024 00:02	WG2329378
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	07/25/2024 00:02	WG2329378
Di-n-butyl phthalate	U		0.000453	0.00300	1	07/25/2024 00:02	WG2329378
Diethyl phthalate	U		0.000287	0.00300	1	07/25/2024 00:02	WG2329378
Dimethyl phthalate	U		0.000260	0.00300	1	07/25/2024 00:02	WG2329378
Di-n-octyl phthalate	U		0.000932	0.00300	1	07/25/2024 00:02	WG2329378
Pyrene	U		0.000107	0.00100	1	07/25/2024 00:02	WG2329378
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	07/25/2024 00:02	WG2329378
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	07/25/2024 00:02	WG2329378
2-Chlorophenol	U	J3	0.000133	0.0100	1	07/25/2024 00:02	WG2329378
2,4-Dichlorophenol	U	J3	0.000102	0.0100	1	07/25/2024 00:02	WG2329378
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	07/25/2024 00:02	WG2329378
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	07/25/2024 00:02	WG2329378
2,4-Dinitrophenol	U		0.00593	0.0100	1	07/25/2024 00:02	WG2329378
2-Nitrophenol	U		0.000117	0.0100	1	07/25/2024 00:02	WG2329378

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	07/25/2024 00:02	WG2329378
2-Methylphenol	U	J3	0.0000929	0.0100	1	07/25/2024 00:02	WG2329378
3&4-Methyl Phenol	U	J3	0.000168	0.0100	1	07/25/2024 00:02	WG2329378
3-Nitroaniline	U	J3	0.0000869	0.0100	1	07/25/2024 00:02	WG2329378
4-Chloroaniline	U	J3	0.000234	0.0100	1	07/25/2024 00:02	WG2329378
4-Nitroaniline	U	J3	0.0000910	0.0100	1	07/25/2024 00:02	WG2329378
4-Nitrophenol	U	J3	0.000143	0.0100	1	07/25/2024 00:02	WG2329378
Pentachlorophenol	U		0.000313	0.0100	1	07/25/2024 00:02	WG2329378
Phenol	U		0.00433	0.0100	1	07/25/2024 00:02	WG2329378
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	07/25/2024 00:02	WG2329378
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	07/25/2024 00:02	WG2329378
(S) 2-Fluorophenol	*28.3*			*10.0-120*		*07/25/2024 00:02*	WG2329378
(S) Phenol-d5	*25.7*			*10.0-120*		*07/25/2024 00:02*	WG2329378
(S) Nitrobenzene-d5	*73.2*			*10.0-127*		*07/25/2024 00:02*	WG2329378
(S) 2-Fluorobiphenyl	*68.1*			*10.0-130*		*07/25/2024 00:02*	WG2329378
(S) 2,4,6-Tribromophenol	*67.3*			*10.0-155*		*07/25/2024 00:02*	WG2329378
(S) p-Terphenyl-d14	*69.8*			*10.0-128*		*07/25/2024 00:02*	WG2329378

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	974		20.0	1	07/24/2024 12:10	WG2328515

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	240		3.79	10.0	10	07/19/2024 23:01	WG2326473
Fluoride	0.710		0.0640	0.150	1	07/19/2024 22:49	WG2326473
Nitrate	2.84		0.0480	0.100	1	07/19/2024 22:49	WG2326473
Nitrite	U		0.0420	0.100	1	07/19/2024 22:49	WG2326473
Sulfate	86.4		0.594	5.00	1	07/19/2024 22:49	WG2326473

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	07/22/2024 12:57	WG2326660

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.176	J	0.0200	0.200	1	07/30/2024 18:36	WG2327787

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	08/14/2024 18:08	WG2328262
Arsenic,Dissolved	0.00473		0.000180	0.00200	1	08/14/2024 18:08	WG2328262
Barium,Dissolved	0.0990		0.000381	0.00200	1	08/14/2024 18:08	WG2328262
Cadmium,Dissolved	U		0.000150	0.00100	1	08/14/2024 18:08	WG2328262
Chromium,Dissolved	U		0.00124	0.00200	1	08/14/2024 18:08	WG2328262
Copper,Dissolved	U		0.00151	0.00500	1	08/14/2024 18:08	WG2328262
Cobalt,Dissolved	0.000117	J	0.0000596	0.00200	1	08/14/2024 18:08	WG2328262
Iron,Dissolved	0.0538	J	0.0281	0.100	1	08/14/2024 18:08	WG2328262
Lead,Dissolved	U		0.000849	0.00200	1	08/14/2024 18:08	WG2328262
Manganese,Dissolved	0.00439	J	0.000704	0.00500	1	08/14/2024 18:08	WG2328262
Molybdenum,Dissolved	0.00200	J	0.000348	0.00500	1	08/14/2024 18:08	WG2328262
Nickel,Dissolved	0.00379		0.000816	0.00200	1	08/14/2024 18:08	WG2328262
Selenium,Dissolved	0.00326		0.000300	0.00200	1	08/14/2024 18:08	WG2328262
Silver,Dissolved	U		0.0000700	0.00200	1	08/14/2024 18:08	WG2328262
Uranium,Dissolved	0.00206	J	0.0000700	0.0200	1	08/14/2024 18:08	WG2328262
Zinc,Dissolved	0.0490		0.00302	0.0250	1	08/14/2024 18:08	WG2328262

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/24/2024 18:01	WG2328823
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*78.0-120*		*07/24/2024 18:01*	WG2328823

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	07/23/2024 16:07	WG2328469
Benzene	U		0.0000941	0.00100	1	07/23/2024 16:07	WG2328469
Bromodichloromethane	U		0.000136	0.00100	1	07/23/2024 16:07	WG2328469
Bromoform	U		0.000129	0.00100	1	07/23/2024 16:07	WG2328469
Bromomethane	U		0.000605	0.00500	1	07/23/2024 16:07	WG2328469
n-Butylbenzene	U		0.000157	0.00100	1	07/23/2024 16:07	WG2328469
sec-Butylbenzene	U		0.000125	0.00100	1	07/23/2024 16:07	WG2328469
tert-Butylbenzene	U		0.000127	0.00100	1	07/23/2024 16:07	WG2328469
Carbon disulfide	U		0.0000962	0.00100	1	07/23/2024 16:07	WG2328469
Carbon tetrachloride	0.000410	J J4	0.000128	0.00100	1	07/23/2024 16:07	WG2328469
Chlorobenzene	U		0.000116	0.00100	1	07/23/2024 16:07	WG2328469
Chlorodibromomethane	U		0.000140	0.00100	1	07/23/2024 16:07	WG2328469
Chloroethane	U		0.000192	0.00500	1	07/23/2024 16:07	WG2328469
Chloroform	0.000952	J	0.000111	0.00500	1	07/23/2024 16:07	WG2328469
Chloromethane	U		0.000960	0.00250	1	07/23/2024 16:07	WG2328469
1,2-Dibromoethane	U		0.000126	0.00100	1	07/23/2024 16:07	WG2328469
1,1-Dichloroethane	U		0.000100	0.00100	1	07/23/2024 16:07	WG2328469
1,2-Dichloroethane	U		0.0000819	0.00100	1	07/23/2024 16:07	WG2328469
1,1-Dichloroethene	U		0.000188	0.00100	1	07/23/2024 16:07	WG2328469
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	07/23/2024 16:07	WG2328469
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	07/23/2024 16:07	WG2328469
1,2-Dichloropropane	U		0.000149	0.00100	1	07/23/2024 16:07	WG2328469
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	07/23/2024 16:07	WG2328469
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	07/23/2024 16:07	WG2328469
Ethylbenzene	U		0.000137	0.00100	1	07/23/2024 16:07	WG2328469
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	07/23/2024 16:07	WG2328469
2-Hexanone	U	J4	0.000787	0.0100	1	07/23/2024 16:07	WG2328469
Isopropylbenzene	U		0.000105	0.00100	1	07/23/2024 16:07	WG2328469
p-Isopropyltoluene	U		0.000120	0.00100	1	07/23/2024 16:07	WG2328469
2-Butanone (MEK)	U		0.00119	0.0100	1	07/23/2024 16:07	WG2328469
Methylene Chloride	U		0.000430	0.00500	1	07/23/2024 16:07	WG2328469
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	07/23/2024 16:07	WG2328469
Methyl tert-butyl ether	U		0.000101	0.00100	1	07/23/2024 16:07	WG2328469
Naphthalene	U		0.00100	0.00500	1	07/23/2024 16:07	WG2328469
n-Propylbenzene	U		0.0000993	0.00100	1	07/23/2024 16:07	WG2328469
Styrene	U		0.000118	0.00100	1	07/23/2024 16:07	WG2328469
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	07/23/2024 16:07	WG2328469
Tetrachloroethene	U		0.000300	0.00100	1	07/23/2024 16:07	WG2328469
Toluene	U		0.000278	0.00100	1	07/23/2024 16:07	WG2328469
1,1,1-Trichloroethane	U		0.000149	0.00100	1	07/23/2024 16:07	WG2328469
1,1,2-Trichloroethane	U		0.000158	0.00100	1	07/23/2024 16:07	WG2328469
Trichloroethene	U		0.000190	0.00100	1	07/23/2024 16:07	WG2328469
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/23/2024 16:07	WG2328469
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/23/2024 16:07	WG2328469
Vinyl chloride	U		0.000234	0.00100	1	07/23/2024 16:07	WG2328469
Xylenes, Total	U		0.000174	0.00300	1	07/23/2024 16:07	WG2328469
(S) Toluene-d8	*107*			*80.0-120*		*07/23/2024 16:07*	WG2328469
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/23/2024 16:07*	WG2328469
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/23/2024 16:07*	WG2328469

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	07/28/2024 11:27	WG2330436
(S) o-Terphenyl	*98.4*			*52.0-156*		*07/28/2024 11:27*	WG2330436

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	07/25/2024 00:24	WG2329378
Acenaphthylene	U		0.0000921	0.00100	1	07/25/2024 00:24	WG2329378
Acetophenone	U		0.000208	0.0100	1	07/25/2024 00:24	WG2329378
Anthracene	U		0.0000804	0.00100	1	07/25/2024 00:24	WG2329378
Atrazine	U		0.000255	0.0100	1	07/25/2024 00:24	WG2329378
Benzo(a)anthracene	U		0.000199	0.00100	1	07/25/2024 00:24	WG2329378
Benzaldehyde	U	J4	0.00169	0.0100	1	07/25/2024 00:24	WG2329378
Benzo(b)fluoranthene	U		0.000130	0.00100	1	07/25/2024 00:24	WG2329378
Benzo(k)fluoranthene	U		0.000120	0.00100	1	07/25/2024 00:24	WG2329378
Benzo(g,h,i)perylene	U	J3	0.000121	0.00100	1	07/25/2024 00:24	WG2329378
Benzo(a)pyrene	U	J3	0.0000381	0.000200	1	07/25/2024 00:24	WG2329378
Biphenyl	U		0.000790	0.0100	1	07/25/2024 00:24	WG2329378
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	07/25/2024 00:24	WG2329378
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	07/25/2024 00:24	WG2329378
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	07/25/2024 00:24	WG2329378
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	07/25/2024 00:24	WG2329378
2-Chloronaphthalene	U		0.0000648	0.00100	1	07/25/2024 00:24	WG2329378
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	07/25/2024 00:24	WG2329378
Caprolactam	U		0.000309	0.0100	1	07/25/2024 00:24	WG2329378
Carbazole	U		0.000111	0.0100	1	07/25/2024 00:24	WG2329378
Chrysene	U		0.000130	0.00100	1	07/25/2024 00:24	WG2329378
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	07/25/2024 00:24	WG2329378
Dibenzofuran	U		0.0000970	0.0100	1	07/25/2024 00:24	WG2329378
3,3-Dichlorobenzidine	U	J3	0.000212	0.0100	1	07/25/2024 00:24	WG2329378
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	07/25/2024 00:24	WG2329378
2,6-Dinitrotoluene	U		0.000250	0.0100	1	07/25/2024 00:24	WG2329378
Fluoranthene	U		0.000102	0.00100	1	07/25/2024 00:24	WG2329378
Fluorene	U		0.0000844	0.00100	1	07/25/2024 00:24	WG2329378
Hexachlorobenzene	U		0.0000755	0.00100	1	07/25/2024 00:24	WG2329378
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	07/25/2024 00:24	WG2329378
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	07/25/2024 00:24	WG2329378
Hexachloroethane	U		0.000127	0.0100	1	07/25/2024 00:24	WG2329378
Indeno(1,2,3-cd)pyrene	U	J3	0.000279	0.00100	1	07/25/2024 00:24	WG2329378
Isophorone	U		0.000143	0.0100	1	07/25/2024 00:24	WG2329378
1-Methylnaphthalene	U		0.0000790	0.00100	1	07/25/2024 00:24	WG2329378
2-Methylnaphthalene	U		0.000117	0.00100	1	07/25/2024 00:24	WG2329378
Naphthalene	U		0.000159	0.00100	1	07/25/2024 00:24	WG2329378
Nitrobenzene	U		0.000297	0.0100	1	07/25/2024 00:24	WG2329378
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	07/25/2024 00:24	WG2329378
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	07/25/2024 00:24	WG2329378
Phenanthrene	U		0.000112	0.00100	1	07/25/2024 00:24	WG2329378
Benzylbutyl phthalate	U		0.000765	0.00300	1	07/25/2024 00:24	WG2329378
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	07/25/2024 00:24	WG2329378
Di-n-butyl phthalate	U		0.000453	0.00300	1	07/25/2024 00:24	WG2329378
Diethyl phthalate	U		0.000287	0.00300	1	07/25/2024 00:24	WG2329378
Dimethyl phthalate	U		0.000260	0.00300	1	07/25/2024 00:24	WG2329378
Di-n-octyl phthalate	U		0.000932	0.00300	1	07/25/2024 00:24	WG2329378
Pyrene	U		0.000107	0.00100	1	07/25/2024 00:24	WG2329378
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	07/25/2024 00:24	WG2329378
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	07/25/2024 00:24	WG2329378
2-Chlorophenol	U	J3	0.000133	0.0100	1	07/25/2024 00:24	WG2329378
2,4-Dichlorophenol	U	J3	0.000102	0.0100	1	07/25/2024 00:24	WG2329378
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	07/25/2024 00:24	WG2329378
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	07/25/2024 00:24	WG2329378
2,4-Dinitrophenol	U		0.00593	0.0100	1	07/25/2024 00:24	WG2329378
2-Nitrophenol	U		0.000117	0.0100	1	07/25/2024 00:24	WG2329378

DUP-01
Collected date/time: 07/18/24 10:00
L1758454

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	07/25/2024 00:24	WG2329378
2-Methylphenol	U	J3	0.0000929	0.0100	1	07/25/2024 00:24	WG2329378
3&4-Methyl Phenol	U	J3	0.000168	0.0100	1	07/25/2024 00:24	WG2329378
3-Nitroaniline	U	J3	0.0000869	0.0100	1	07/25/2024 00:24	WG2329378
4-Chloroaniline	U	J3	0.000234	0.0100	1	07/25/2024 00:24	WG2329378
4-Nitroaniline	U	J3	0.0000910	0.0100	1	07/25/2024 00:24	WG2329378
4-Nitrophenol	U	J3	0.000143	0.0100	1	07/25/2024 00:24	WG2329378
Pentachlorophenol	U		0.000313	0.0100	1	07/25/2024 00:24	WG2329378
Phenol	U		0.00433	0.0100	1	07/25/2024 00:24	WG2329378
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	07/25/2024 00:24	WG2329378
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	07/25/2024 00:24	WG2329378
(S) 2-Fluorophenol	*22.9*			*10.0-120*		*07/25/2024 00:24*	WG2329378
(S) Phenol-d5	*21.7*			*10.0-120*		*07/25/2024 00:24*	WG2329378
(S) Nitrobenzene-d5	*68.6*			*10.0-127*		*07/25/2024 00:24*	WG2329378
(S) 2-Fluorobiphenyl	*62.4*			*10.0-130*		*07/25/2024 00:24*	WG2329378
(S) 2,4,6-Tribromophenol	*66.8*			*10.0-155*		*07/25/2024 00:24*	WG2329378
(S) p-Terphenyl-d14	*67.8*			*10.0-128*		*07/25/2024 00:24*	WG2329378

TRIP BLANK
Collected date/time: 07/18/24 00:00
L1758454

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	0.0119	J	0.0113	0.0500	1	07/23/2024 14:20	WG2328469
Benzene	U		0.0000941	0.00100	1	07/23/2024 14:20	WG2328469
Bromodichloromethane	U		0.000136	0.00100	1	07/23/2024 14:20	WG2328469
Bromoform	U		0.000129	0.00100	1	07/23/2024 14:20	WG2328469
Bromomethane	U		0.000605	0.00500	1	07/23/2024 14:20	WG2328469
n-Butylbenzene	U		0.000157	0.00100	1	07/23/2024 14:20	WG2328469
sec-Butylbenzene	U		0.000125	0.00100	1	07/23/2024 14:20	WG2328469
tert-Butylbenzene	U		0.000127	0.00100	1	07/23/2024 14:20	WG2328469
Carbon disulfide	U		0.0000962	0.00100	1	07/23/2024 14:20	WG2328469
Carbon tetrachloride	U	J4	0.000128	0.00100	1	07/23/2024 14:20	WG2328469
Chlorobenzene	U		0.000116	0.00100	1	07/23/2024 14:20	WG2328469
Chlorodibromomethane	U		0.000140	0.00100	1	07/23/2024 14:20	WG2328469
Chloroethane	U		0.000192	0.00500	1	07/23/2024 14:20	WG2328469
Chloroform	U		0.000111	0.00500	1	07/23/2024 14:20	WG2328469
Chloromethane	U		0.000960	0.00250	1	07/23/2024 14:20	WG2328469
1,2-Dibromoethane	U		0.000126	0.00100	1	07/23/2024 14:20	WG2328469
1,1-Dichloroethane	U		0.000100	0.00100	1	07/23/2024 14:20	WG2328469
1,2-Dichloroethane	U		0.0000819	0.00100	1	07/23/2024 14:20	WG2328469
1,1-Dichloroethene	U		0.000188	0.00100	1	07/23/2024 14:20	WG2328469
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	07/23/2024 14:20	WG2328469
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	07/23/2024 14:20	WG2328469
1,2-Dichloropropane	U		0.000149	0.00100	1	07/23/2024 14:20	WG2328469
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	07/23/2024 14:20	WG2328469
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	07/23/2024 14:20	WG2328469
Ethylbenzene	U		0.000137	0.00100	1	07/23/2024 14:20	WG2328469
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	07/23/2024 14:20	WG2328469
2-Hexanone	U	J4	0.000787	0.0100	1	07/23/2024 14:20	WG2328469
Isopropylbenzene	U		0.000105	0.00100	1	07/23/2024 14:20	WG2328469
p-Isopropyltoluene	U		0.000120	0.00100	1	07/23/2024 14:20	WG2328469
2-Butanone (MEK)	U		0.00119	0.0100	1	07/23/2024 14:20	WG2328469
Methylene Chloride	U		0.000430	0.00500	1	07/23/2024 14:20	WG2328469
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	07/23/2024 14:20	WG2328469
Methyl tert-butyl ether	U		0.000101	0.00100	1	07/23/2024 14:20	WG2328469
Naphthalene	U		0.00100	0.00500	1	07/23/2024 14:20	WG2328469
n-Propylbenzene	U		0.0000993	0.00100	1	07/23/2024 14:20	WG2328469
Styrene	U		0.000118	0.00100	1	07/23/2024 14:20	WG2328469
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	07/23/2024 14:20	WG2328469
Tetrachloroethene	U		0.000300	0.00100	1	07/23/2024 14:20	WG2328469
Toluene	U		0.000278	0.00100	1	07/23/2024 14:20	WG2328469
1,1,1-Trichloroethane	U		0.000149	0.00100	1	07/23/2024 14:20	WG2328469
1,1,2-Trichloroethane	U		0.000158	0.00100	1	07/23/2024 14:20	WG2328469
Trichloroethene	U		0.000190	0.00100	1	07/23/2024 14:20	WG2328469
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/23/2024 14:20	WG2328469
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/23/2024 14:20	WG2328469
Vinyl chloride	U		0.000234	0.00100	1	07/23/2024 14:20	WG2328469
Xylenes, Total	U		0.000174	0.00300	1	07/23/2024 14:20	WG2328469
(S) Toluene-d8	*107*			*80.0-120*		*07/23/2024 14:20*	WG2328469
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/23/2024 14:20*	WG2328469
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/23/2024 14:20*	WG2328469

Method Blank (MB)

(MB) R4099100-1 07/24/24 12:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1759213-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1759213-01 07/24/24 12:10 • (DUP) R4099100-3 07/24/24 12:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	463	449	1	3.07		10

L1759216-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1759216-01 07/24/24 12:10 • (DUP) R4099100-4 07/24/24 12:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	ND	1	200		10

Laboratory Control Sample (LCS)

(LCS) R4099100-2 07/24/24 12:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8750	99.4	85.0-115	

Method Blank (MB)

(MB) R4096784-1 07/19/24 18:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1758390-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1758390-01 07/19/24 19:11 • (DUP) R4096784-3 07/19/24 19:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.372	0.374	1	0.670		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	9.82	9.83	1	0.103		15

L1758390-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1758390-01 07/19/24 19:36 • (DUP) R4096784-4 07/19/24 19:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	377	376	5	0.275		15

Laboratory Control Sample (LCS)

(LCS) R4096784-2 07/19/24 18:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.7	96.9	80.0-120	
Fluoride	8.00	8.02	100	80.0-120	
Nitrate	8.00	8.47	106	80.0-120	
Nitrite	8.00	8.25	103	80.0-120	
Sulfate	40.0	38.7	96.8	80.0-120	

L1758390-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758390-01 07/19/24 19:11 • (MS) R4096784-5 07/19/24 20:02 • (MSD) R4096784-6 07/19/24 20:15

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 %
Fluoride	8.00	0.372	8.25	8.27	98.5	98.7	1	80.0-120			0.241	15
Nitrate	8.00	U	8.29	8.28	104	103	1	80.0-120			0.134	15
Nitrite	8.00	U	7.38	7.37	92.3	92.2	1	80.0-120			0.121	15
Sulfate	40.0	9.82	47.0	47.0	92.9	93.0	1	80.0-120			0.0655	15

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4096772-1 07/22/24 11:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R4096772-2 07/22/24 11:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00320	107	80.0-120	

L1758446-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758446-01 07/22/24 11:32 • (MS) R4096772-4 07/22/24 11:37 • (MSD) R4096772-5 07/22/24 11:40

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 %
Mercury	0.00300	U	0.00311	0.00311	104	104	1	75.0-125			0.0380	20

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

Released to Imaging: 5/2/2025 9:53:52 AM

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4096803-1 07/22/24 12:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R4096803-2 07/22/24 12:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00304	101	80.0-120	

L1758469-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758469-01 07/22/24 12:38 • (MS) R4096803-4 07/22/24 12:43 • (MSD) R4096803-5 07/22/24 12:50

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 %
Mercury	0.00300	U	0.00310	0.00308	103	103	1	75.0-125			0.655	20

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4100470-1 07/30/24 17:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R4100470-2 07/30/24 17:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.958	95.8	80.0-120	

L1758446-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758446-04 07/30/24 17:57 • (MS) R4100470-4 07/30/24 18:01 • (MSD) R4100470-5 07/30/24 18:03

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 %
Boron,Dissolved	1.00	0.101	1.05	1.05	94.7	95.1	1	75.0-125			0.320	20

Method Blank (MB)

(MB) R4106916-1 08/14/24 16:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0185	0.100
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Molybdenum,Dissolved	U		0.000348	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Silver,Dissolved	U		0.0000700	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Zinc,Dissolved	U		0.00302	0.0250

Laboratory Control Sample (LCS)

(LCS) R4106916-2 08/14/24 16:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	0.961	96.1	80.0-120	
Arsenic,Dissolved	0.0500	0.0500	99.9	80.0-120	
Barium,Dissolved	0.0500	0.0478	95.6	80.0-120	
Cadmium,Dissolved	0.0500	0.0504	101	80.0-120	
Chromium,Dissolved	0.0500	0.0515	103	80.0-120	
Copper,Dissolved	0.0500	0.0490	97.9	80.0-120	
Cobalt,Dissolved	0.0500	0.0512	102	80.0-120	
Iron,Dissolved	1.00	0.960	96.0	80.0-120	
Lead,Dissolved	0.0500	0.0478	95.6	80.0-120	
Manganese,Dissolved	0.0500	0.0502	100	80.0-120	
Molybdenum,Dissolved	0.0500	0.0485	96.9	80.0-120	
Nickel,Dissolved	0.0500	0.0520	104	80.0-120	
Selenium,Dissolved	0.0500	0.0472	94.4	80.0-120	
Silver,Dissolved	0.0500	0.0508	102	80.0-120	
Uranium,Dissolved	0.0500	0.0467	93.4	80.0-120	
Zinc,Dissolved	0.0500	0.0498	99.6	80.0-120	

L1758454-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758454-01 08/14/24 16:45 • (MS) R4106916-4 08/14/24 16:48 • (MSD) R4106916-5 08/14/24 16:52

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 %
Aluminum,Dissolved	1.00	U	0.949	0.953	94.9	95.3	1	75.0-125			0.423	20
Arsenic,Dissolved	0.0500	0.00592	0.0542	0.0545	96.6	97.2	1	75.0-125			0.625	20
Barium,Dissolved	0.0500	0.105	0.148	0.149	87.1	89.4	1	75.0-125			0.779	20
Cadmium,Dissolved	0.0500	U	0.0495	0.0500	99.1	99.9	1	75.0-125			0.857	20
Chromium,Dissolved	0.0500	0.00238	0.0508	0.0510	96.9	97.3	1	75.0-125			0.320	20
Copper,Dissolved	0.0500	U	0.0515	0.0515	103	103	1	75.0-125			0.00305	20
Cobalt,Dissolved	0.0500	U	0.0488	0.0489	97.5	97.8	1	75.0-125			0.301	20
Iron,Dissolved	1.00	U	0.918	0.924	91.8	92.4	1	75.0-125			0.644	20
Lead,Dissolved	0.0500	U	0.0469	0.0477	93.7	95.5	1	75.0-125			1.86	20
Manganese,Dissolved	0.0500	0.000727	0.0477	0.0477	94.0	93.8	1	75.0-125			0.121	20
Molybdenum,Dissolved	0.0500	0.00272	0.0516	0.0513	97.8	97.3	1	75.0-125			0.488	20
Nickel,Dissolved	0.0500	U	0.0495	0.0493	99.0	98.7	1	75.0-125			0.322	20
Selenium,Dissolved	0.0500	0.00360	0.0511	0.0517	95.1	96.2	1	75.0-125			1.13	20
Silver,Dissolved	0.0500	U	0.0505	0.0501	101	100	1	75.0-125			0.780	20
Uranium,Dissolved	0.0500	0.00156	0.0462	0.0484	89.3	93.6	1	75.0-125			4.59	20
Zinc,Dissolved	0.0500	0.00519	0.0526	0.0535	94.8	96.7	1	75.0-125			1.79	20

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4098763-3 07/24/24 10:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*

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

(LCS) R4098763-1 07/24/24 09:16 • (LCSD) R4098763-2 07/24/24 09:39

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 %
TPH (GC/FID) Low Fraction	5.00	4.52	4.72	90.4	94.4	72.0-127			4.33	20
(S) a,a,a-Trifluorotoluene(FID)				*104*	*104*	*78.0-120*				

L1758390-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758390-01 07/24/24 14:55 • (MS) R4098763-4 07/24/24 18:45 • (MSD) R4098763-5 07/24/24 19:07

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 %
TPH (GC/FID) Low Fraction	5.00	1.04	6.79	6.97	115	119	1	10.0-160			2.62	22
(S) a,a,a-Trifluorotoluene(FID)					*104*	*103*		*78.0-120*				

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

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4098825-2 07/23/24 10:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	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
1,2-Dibromoethane	U		0.000126	0.00100
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
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
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
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100

Method Blank (MB)

(MB) R4098825-2 07/23/24 10:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	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	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*108*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4098825-1 07/23/24 10:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0138	55.2	19.0-160	J
Benzene	0.00500	0.00535	107	70.0-123	
Bromodichloromethane	0.00500	0.00545	109	75.0-120	
Bromoform	0.00500	0.00497	99.4	68.0-132	
Bromomethane	0.00500	0.00239	47.8	10.0-160	J
n-Butylbenzene	0.00500	0.00472	94.4	73.0-125	
sec-Butylbenzene	0.00500	0.00452	90.4	75.0-125	
tert-Butylbenzene	0.00500	0.00449	89.8	76.0-124	
Carbon disulfide	0.00500	0.00530	106	61.0-128	
Carbon tetrachloride	0.00500	0.00633	127	68.0-126	J4
Chlorobenzene	0.00500	0.00523	105	80.0-121	
Chlorodibromomethane	0.00500	0.00507	101	77.0-125	
Chloroethane	0.00500	0.00598	120	47.0-150	
Chloroform	0.00500	0.00538	108	73.0-120	
Chloromethane	0.00500	0.00356	71.2	41.0-142	
1,2-Dibromoethane	0.00500	0.00490	98.0	80.0-122	
1,1-Dichloroethane	0.00500	0.00529	106	70.0-126	
1,2-Dichloroethane	0.00500	0.00523	105	70.0-128	
1,1-Dichloroethene	0.00500	0.00557	111	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00560	112	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00538	108	73.0-120	
1,2-Dichloropropane	0.00500	0.00494	98.8	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00537	107	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00479	95.8	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R4098825-1 07/23/24 10:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00532	106	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00558	112	54.0-138	
2-Hexanone	0.0250	0.0157	62.8	67.0-149	J4
Isopropylbenzene	0.00500	0.00527	105	76.0-127	
p-Isopropyltoluene	0.00500	0.00459	91.8	76.0-125	
2-Butanone (MEK)	0.0250	0.0154	61.6	44.0-160	
Methylene Chloride	0.00500	0.00542	108	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0183	73.2	68.0-142	
Methyl tert-butyl ether	0.00500	0.00481	96.2	68.0-125	
Naphthalene	0.00500	0.00385	77.0	54.0-135	J
n-Propylbenzene	0.00500	0.00432	86.4	77.0-124	
Styrene	0.00500	0.00506	101	73.0-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00367	73.4	65.0-130	
Tetrachloroethene	0.00500	0.00589	118	72.0-132	
Toluene	0.00500	0.00523	105	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00551	110	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00481	96.2	80.0-120	
Trichloroethene	0.00500	0.00554	111	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00447	89.4	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00436	87.2	76.0-122	
Vinyl chloride	0.00500	0.00486	97.2	67.0-131	
Xylenes, Total	0.0150	0.0157	105	79.0-123	
(S) Toluene-d8			*105*	*80.0-120*	
(S) 4-Bromofluorobenzene			*106*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*99.7*	*70.0-130*	

L1758469-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758469-01 07/23/24 20:42 • (MS) R4098825-3 07/23/24 21:04 • (MSD) R4098825-4 07/23/24 21:25

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 %
Acetone	0.125	U	0.0711	0.0697	56.9	55.8	5	10.0-160			1.99	35
Benzene	0.0250	U	0.0266	0.0263	106	105	5	17.0-158			1.13	27
Bromodichloromethane	0.0250	U	0.0291	0.0279	116	112	5	31.0-150			4.21	27
Bromoform	0.0250	U	0.0257	0.0256	103	102	5	29.0-150			0.390	29
Bromomethane	0.0250	U	0.0159	0.0142	63.6	56.8	5	10.0-160			11.3	38
n-Butylbenzene	0.0250	U	0.0255	0.0251	102	100	5	31.0-150			1.58	30
sec-Butylbenzene	0.0250	U	0.0258	0.0257	103	103	5	33.0-155			0.388	29
tert-Butylbenzene	0.0250	U	0.0256	0.0256	102	102	5	34.0-153			0.000	28

L1758469-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758469-01 07/23/24 20:42 • (MS) R4098825-3 07/23/24 21:04 • (MSD) R4098825-4 07/23/24 21:25

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 %
Carbon disulfide	0.0250	U	0.0159	0.0161	63.6	64.4	5	10.0-156			1.25	28
Carbon tetrachloride	0.0250	U	0.0324	0.0330	130	132	5	23.0-159			1.83	28
Chlorobenzene	0.0250	U	0.0269	0.0266	108	106	5	33.0-152			1.12	27
Chlorodibromomethane	0.0250	U	0.0263	0.0261	105	104	5	37.0-149			0.763	27
Chloroethane	0.0250	U	0.0300	0.0267	120	107	5	10.0-160			11.6	30
Chloroform	0.0250	U	0.0284	0.0266	114	106	5	29.0-154			6.55	28
Chloromethane	0.0250	U	0.0146	0.0136	58.4	54.4	5	10.0-160			7.09	29
1,2-Dibromoethane	0.0250	U	0.0233	0.0245	93.2	98.0	5	34.0-147			5.02	27
1,1-Dichloroethane	0.0250	U	0.0268	0.0264	107	106	5	25.0-158			1.50	27
1,2-Dichloroethane	0.0250	U	0.0265	0.0245	106	98.0	5	29.0-151			7.84	27
1,1-Dichloroethene	0.0250	U	0.0253	0.0254	101	102	5	11.0-160			0.394	29
cis-1,2-Dichloroethene	0.0250	U	0.0273	0.0277	109	111	5	10.0-160			1.45	27
trans-1,2-Dichloroethene	0.0250	U	0.0236	0.0250	94.4	100	5	17.0-153			5.76	27
1,2-Dichloropropane	0.0250	U	0.0261	0.0260	104	104	5	30.0-156			0.384	27
cis-1,3-Dichloropropene	0.0250	U	0.0255	0.0257	102	103	5	34.0-149			0.781	28
trans-1,3-Dichloropropene	0.0250	U	0.0240	0.0240	96.0	96.0	5	32.0-149			0.000	28
Ethylbenzene	0.0250	U	0.0268	0.0271	107	108	5	30.0-155			1.11	27
Hexachloro-1,3-butadiene	0.0250	U	0.0293	0.0279	117	112	5	20.0-154			4.90	34
2-Hexanone	0.125	U	0.0834	0.0882	66.7	70.6	5	21.0-160			5.59	29
Isopropylbenzene	0.0250	U	0.0277	0.0274	111	110	5	28.0-157			1.09	27
p-Isopropyltoluene	0.0250	U	0.0251	0.0258	100	103	5	30.0-154			2.75	29
2-Butanone (MEK)	0.125	U	0.0843	0.0826	67.4	66.1	5	10.0-160			2.04	32
Methylene Chloride	0.0250	U	0.0247	0.0255	98.8	102	5	23.0-144			3.19	28
4-Methyl-2-pentanone (MIBK)	0.125	U	0.0950	0.0976	76.0	78.1	5	29.0-160			2.70	29
Methyl tert-butyl ether	0.0250	U	0.0245	0.0248	98.0	99.2	5	28.0-150			1.22	29
Naphthalene	0.0250	U	0.0227	0.0218	90.8	87.2	5	12.0-156	J	J	4.04	35
n-Propylbenzene	0.0250	U	0.0240	0.0240	96.0	96.0	5	31.0-154			0.000	28
Styrene	0.0250	U	0.0260	0.0262	104	105	5	33.0-155			0.766	28
1,1,2,2-Tetrachloroethane	0.0250	U	0.0204	0.0204	81.6	81.6	5	33.0-150			0.000	28
Tetrachloroethene	0.0250	U	0.0276	0.0275	110	110	5	10.0-160			0.363	27
Toluene	0.0250	U	0.0259	0.0258	104	103	5	26.0-154			0.387	28
1,1,1-Trichloroethane	0.0250	U	0.0291	0.0279	116	112	5	23.0-160			4.21	28
1,1,2-Trichloroethane	0.0250	U	0.0252	0.0254	101	102	5	35.0-147			0.791	27
Trichloroethene	0.0250	U	0.0280	0.0279	112	112	5	10.0-160			0.358	25
1,2,4-Trimethylbenzene	0.0250	U	0.0240	0.0241	96.0	96.4	5	26.0-154			0.416	27
1,3,5-Trimethylbenzene	0.0250	U	0.0242	0.0240	96.8	96.0	5	28.0-153			0.830	27
Vinyl chloride	0.0250	U	0.0231	0.0209	92.4	83.6	5	10.0-160			10.0	27
Xylenes, Total	0.0750	U	0.0790	0.0790	105	105	5	29.0-154			0.000	28
(S) Toluene-d8					*104*	*103*		*80.0-120*				
(S) 4-Bromofluorobenzene					*108*	*107*		*77.0-126*				

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

L1758469-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758469-01 07/23/24 20:42 • (MS) R4098825-3 07/23/24 21:04 • (MSD) R4098825-4 07/23/24 21:25

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 %
(S) 1,2-Dichloroethane-d4					*102*	*93.2*		*70.0-130*				

Sample Narrative:

OS: Elevated Rl due to sample matrix.

Method Blank (MB)

(MB) R4099318-3 07/27/24 22:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0500	J	0.0247	0.100
(S) o-Terphenyl	*119*			*52.0-156*

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

(LCS) R4099318-1 07/27/24 19:33 • (LCSD) R4099318-2 07/27/24 19:53

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 %
TPH (GC/FID) High Fraction	1.50	1.20	1.31	80.0	87.3	50.0-150			8.76	20
(S) o-Terphenyl				*96.5*	*101*	*52.0-156*				

Method Blank (MB)

(MB) R4098230-3 07/24/24 22:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Method Blank (MB)

(MB) R4098230-3 07/24/24 22:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*33.5*			*10.0-120*
(S) Phenol-d5	*28.2*			*10.0-120*
(S) Nitrobenzene-d5	*75.0*			*10.0-127*
(S) 2-Fluorobiphenyl	*69.3*			*10.0-130*
(S) 2,4,6-Tribromophenol	*68.5*			*10.0-155*
(S) p-Terphenyl-d14	*77.2*			*10.0-128*

Received by OCD: 4/15/2025 7:55:48 AM

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

(LCS) R4098230-1 07/24/24 21:54 • (LCSD) R4098230-2 07/24/24 22:15

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 %
Acenaphthene	0.0500	0.0386	0.0358	77.2	71.6	41.0-120			7.53	22
Acenaphthylene	0.0500	0.0394	0.0365	78.8	73.0	43.0-120			7.64	22
Acetophenone	0.0500	0.0469	0.0399	93.8	79.8	29.0-120			16.1	28
Anthracene	0.0500	0.0410	0.0392	82.0	78.4	45.0-120			4.49	20
Atrazine	0.0500	0.0466	0.0420	93.2	84.0	39.0-141			10.4	20
Benzo(a)anthracene	0.0500	0.0454	0.0386	90.8	77.2	47.0-120			16.2	20
Benzaldehyde	0.0500	0.137	0.113	274	226	10.0-160	J4	J4	19.2	40
Benzo(b)fluoranthene	0.0500	0.0432	0.0364	86.4	72.8	46.0-120			17.1	20
Benzo(k)fluoranthene	0.0500	0.0445	0.0363	89.0	72.6	46.0-120			20.3	21
Benzo(g,h,i)perylene	0.0500	0.0457	0.0373	91.4	74.6	48.0-121		J3	20.2	20
Benzo(a)pyrene	0.0500	0.0449	0.0361	89.8	72.2	47.0-120		J3	21.7	20
Biphenyl	0.0500	0.0372	0.0352	74.4	70.4	38.0-120			5.52	27
Bis(2-chlorethoxy)methane	0.0500	0.0384	0.0337	76.8	67.4	33.0-120			13.0	24
Bis(2-chloroethyl)ether	0.0500	0.0522	0.0416	104	83.2	23.0-120			22.6	33
2,2-Oxybis(1-Chloropropane)	0.0500	0.0403	0.0338	80.6	67.6	28.0-120			17.5	31
4-Bromophenyl-phenylether	0.0500	0.0419	0.0398	83.8	79.6	45.0-120			5.14	20
2-Chloronaphthalene	0.0500	0.0362	0.0337	72.4	67.4	37.0-120			7.15	25
4-Chlorophenyl-phenylether	0.0500	0.0394	0.0374	78.8	74.8	44.0-120			5.21	20
Caprolactam	0.0500	0.0159	0.0135	31.8	27.0	10.0-120			16.3	26
Carbazole	0.0500	0.0464	0.0431	92.8	86.2	51.0-122			7.37	20
Chrysene	0.0500	0.0441	0.0372	88.2	74.4	48.0-120			17.0	20
Dibenz(a,h)anthracene	0.0500	0.0468	0.0386	93.6	77.2	47.0-120			19.2	20
Dibenzofuran	0.0500	0.0384	0.0358	76.8	71.6	44.0-120			7.01	22
3,3-Dichlorobenzidine	0.100	0.0924	0.0717	92.4	71.7	44.0-120		J3	25.2	20
2,4-Dinitrotoluene	0.0500	0.0499	0.0456	99.8	91.2	49.0-124			9.01	20
2,6-Dinitrotoluene	0.0500	0.0481	0.0440	96.2	88.0	46.0-120			8.90	21
Fluoranthene	0.0500	0.0426	0.0395	85.2	79.0	51.0-120			7.55	20
Fluorene	0.0500	0.0403	0.0384	80.6	76.8	47.0-120			4.83	20
Hexachlorobenzene	0.0500	0.0421	0.0379	84.2	75.8	44.0-120			10.5	20
Hexachloro-1,3-butadiene	0.0500	0.0301	0.0284	60.2	56.8	19.0-120			5.81	32
Hexachlorocyclopentadiene	0.0500	0.0209	0.0175	41.8	35.0	15.0-120			17.7	31
Hexachloroethane	0.0500	0.0322	0.0302	64.4	60.4	15.0-120			6.41	37
Indeno(1,2,3-cd)pyrene	0.0500	0.0459	0.0363	91.8	72.6	49.0-122		J3	23.4	20
Isophorone	0.0500	0.0338	0.0301	67.6	60.2	36.0-120			11.6	23
1-Methylnaphthalene	0.0500	0.0347	0.0321	69.4	64.2	33.0-120			7.78	24
2-Methylnaphthalene	0.0500	0.0322	0.0296	64.4	59.2	33.0-120			8.41	25
Naphthalene	0.0500	0.0319	0.0285	63.8	57.0	27.0-120			11.3	27
Nitrobenzene	0.0500	0.0432	0.0363	86.4	72.6	27.0-120			17.4	29
n-Nitrosodiphenylamine	0.0500	0.0410	0.0370	82.0	74.0	47.0-120			10.3	20
n-Nitrosodi-n-propylamine	0.0500	0.0377	0.0331	75.4	66.2	31.0-120			13.0	28

Released to Imaging: 5/2/2025 9:53:52 AM

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

(LCS) R4098230-1 07/24/24 21:54 • (LCSD) R4098230-2 07/24/24 22:15

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 %
Phenanthrene	0.0500	0.0408	0.0388	81.6	77.6	46.0-120			5.03	20
Benzylbutyl phthalate	0.0500	0.0416	0.0389	83.2	77.8	43.0-121			6.71	20
Bis(2-ethylhexyl)phthalate	0.0500	0.0435	0.0364	87.0	72.8	43.0-122			17.8	20
Di-n-butyl phthalate	0.0500	0.0446	0.0424	89.2	84.8	49.0-121			5.06	20
Diethyl phthalate	0.0500	0.0431	0.0412	86.2	82.4	48.0-122			4.51	20
Dimethyl phthalate	0.0500	0.0443	0.0398	88.6	79.6	48.0-120			10.7	20
Di-n-octyl phthalate	0.0500	0.0441	0.0365	88.2	73.0	42.0-125			18.9	20
Pyrene	0.0500	0.0430	0.0392	86.0	78.4	47.0-120			9.25	20
1,2,4-Trichlorobenzene	0.0500	0.0312	0.0288	62.4	57.6	24.0-120			8.00	29
4-Chloro-3-methylphenol	0.0500	0.0400	0.0286	80.0	57.2	40.0-120		J3	33.2	21
2-Chlorophenol	0.0500	0.0384	0.0255	76.8	51.0	25.0-120		J3	40.4	35
2,4-Dichlorophenol	0.0500	0.0384	0.0283	76.8	56.6	36.0-120		J3	30.3	26
2,4-Dimethylphenol	0.0500	0.0467	0.0329	93.4	65.8	33.0-120		J3	34.7	26
4,6-Dinitro-2-methylphenol	0.0500	0.0484	0.0434	96.8	86.8	38.0-138			10.9	25
2,4-Dinitrophenol	0.0500	0.0433	0.0351	86.6	70.2	10.0-120			20.9	39
2-Nitrophenol	0.0500	0.0450	0.0361	90.0	72.2	31.0-120			21.9	29
2-Nitroaniline	0.0500	0.0472	0.0414	94.4	82.8	43.0-120			13.1	22
2-Methylphenol	0.0500	0.0351	0.0235	70.2	47.0	28.0-120		J3	39.6	29
3&4-Methyl Phenol	0.0500	0.0368	0.0244	73.6	48.8	31.0-120		J3	40.5	30
3-Nitroaniline	0.0500	0.0463	0.0365	92.6	73.0	38.0-120		J3	23.7	21
4-Chloroaniline	0.0500	0.0368	0.0255	73.6	51.0	25.0-120		J3	36.3	25
4-Nitroaniline	0.0500	0.0515	0.0402	103	80.4	18.0-160		J3	24.6	21
4-Nitrophenol	0.0500	0.0174	0.0121	34.8	24.2	10.0-120		J3	35.9	33
Pentachlorophenol	0.0500	0.0310	0.0275	62.0	55.0	23.0-120			12.0	25
Phenol	0.0500	0.0178	0.0132	35.6	26.4	10.0-120			29.7	36
2,4,5-Trichlorophenol	0.0500	0.0456	0.0377	91.2	75.4	44.0-120			19.0	22
2,4,6-Trichlorophenol	0.0500	0.0444	0.0375	88.8	75.0	42.0-120			16.8	23
(S) 2-Fluorophenol				*42.9*	*28.0*	*10.0-120*				
(S) Phenol-d5				*33.2*	*24.8*	*10.0-120*				
(S) Nitrobenzene-d5				*81.4*	*67.3*	*10.0-127*				
(S) 2-Fluorobiphenyl				*72.6*	*67.6*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*92.0*	*84.0*	*10.0-155*				
(S) p-Terphenyl-d14				*81.8*	*72.2*	*10.0-128*				

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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

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:
TRC Solutions - Austin, TX
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: jspeer@trccompanies.com;aeljuri@trccompanie

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT (MT) CT ET

Phone: **512-684-3176**

Client Project # **377274.0000.0000.**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Bryan Bayles + Hull Team

Site/Facility ID #

P.O. # **213735**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp	Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS-FF 250mlHDPE HNO3	TDS 500mlHDPE-NoPres	V8260 40mlAmb-HCl	V8260-TripBlank 40mlAmb-HCl-Blk			
WW-NORTH			GW		7/18/24	1010	13	X	X	X	X	X	X	X	X				-01
WW-SOUTH			GW			925	13	X	X	X	X	X	X	X	X				-02
WW-EAST			GW			1055	13	X	X	X	X	X	X	X	X				-03
DUP-01			GW			1000	13	X	X	X	X	X	X	X	X				-04
TRIP BLANK			GW			—	1									X			-05

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

Remarks:**WetChem-48hr HT** = NITRATE,NITRITE,CHLORIDE,FLUORIDE,SULFATE.
(Sample and ship same day)
NAVAJOMETALSDISS are Field Filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 7123 3308 2106

Relinquished by : (Signature) — Date: 7/18/24 — Time: 1500 — Received by: (Signature)

Relinquished by : (Signature) — Date: — Time: — Received by: (Signature)

Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature) CRodero — Date: 07.19.24 — Time: 0930

Trip Blank Received: (Yes) / No
HCL / MeoH
TBR

Temp: 4.8+0.3=5.1 °C EDA9 — Bottles Received: 42

Hold: — Condition: NCF / (OK)

Chain of Custody Page 1 of 1

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 # B109 L1758454

Acctnum: TRCATX
Template: T118335
Prelogin: P1083644
PM: 526 - Chris McCord
PB:

Shipped Via:

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

PH-10BDH0941
TRC-3223A228

ANALYTICAL REPORT

October 25, 2024

TRC Solutions - Austin, TX

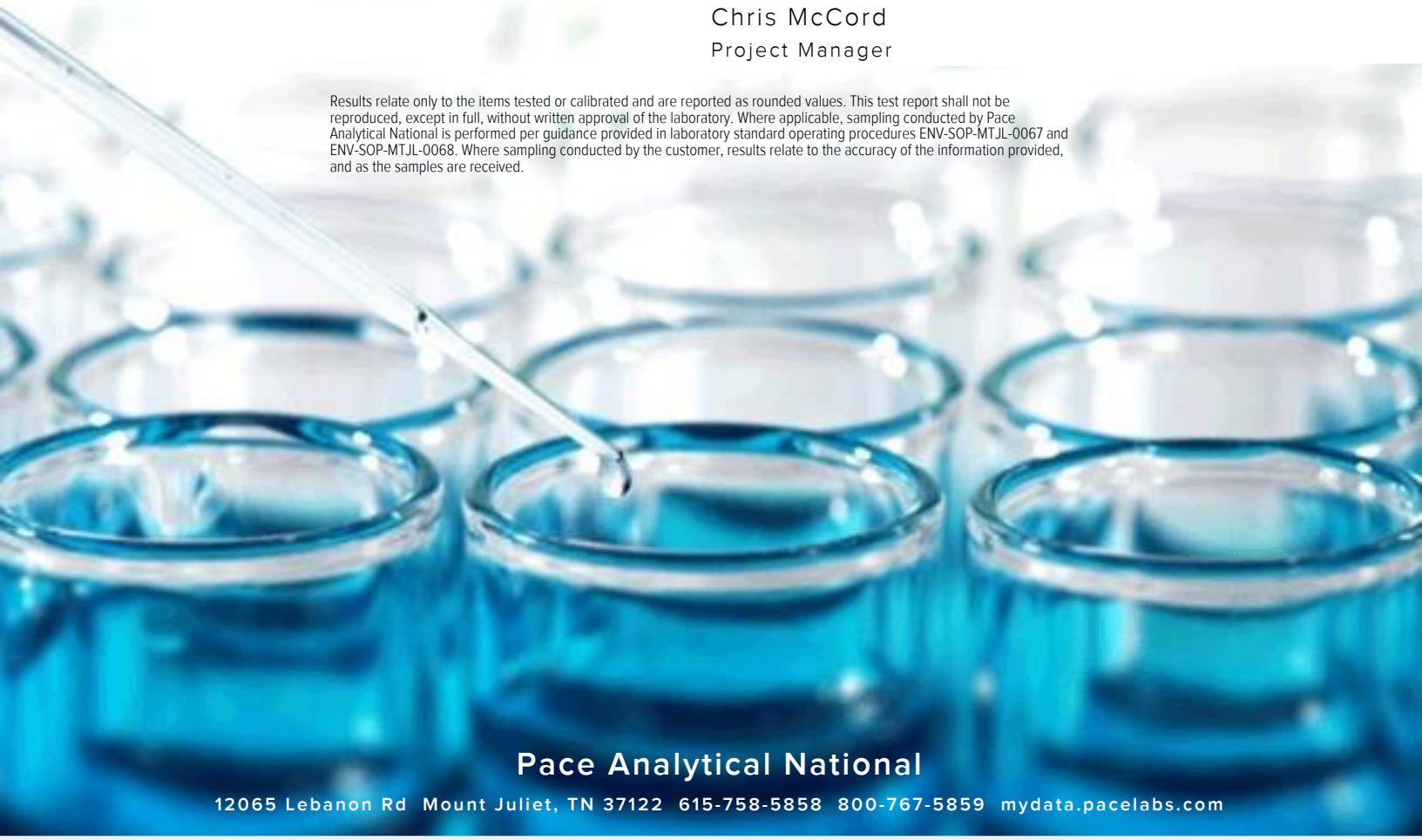
Sample Delivery Group:	L1785334
Samples Received:	10/04/2024
Project Number:	584880.0000.0000
Description:	Lovington Lea Refinery

Report To: Julie Speer
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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

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MW-6 L1785334-01 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 11:35 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2376121	1	10/05/24 02:16	10/05/24 02:16	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:05	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378092	1	10/18/24 11:06	10/18/24 16:44	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378107	1	10/15/24 10:19	10/17/24 20:30	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378107	1	10/15/24 10:19	10/17/24 23:00	UNP	Mt. Juliet, TN

MW-8 L1785334-02 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 10:45 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376522	1	10/06/24 09:44	10/06/24 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376121	1	10/05/24 02:46	10/05/24 02:46	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376121	10	10/05/24 03:18	10/05/24 03:18	GEB	Mt. Juliet, TN

MW-11R L1785334-03 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 11:10 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 15:46	10/11/24 15:46	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1	10/10/24 16:18	10/11/24 03:53	AMS	Mt. Juliet, TN

MW-12R2 L1785334-04 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 10:40 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 16:05	10/11/24 16:05	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1.03	10/10/24 16:18	10/11/24 04:14	AMS	Mt. Juliet, TN

MW-13R L1785334-05 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 09:25 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376599	1	10/06/24 11:30	10/07/24 09:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376121	1	10/05/24 03:29	10/05/24 03:29	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376121	10	10/05/24 03:40	10/05/24 03:40	GEB	Mt. Juliet, TN

MW-15R L1785334-06 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 09:00 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376599	1	10/06/24 11:30	10/07/24 09:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376121	1	10/05/24 03:51	10/05/24 03:51	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376121	10	10/05/24 04:02	10/05/24 04:02	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:07	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:29	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378107	1	10/15/24 10:19	10/17/24 20:34	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378107	1	10/15/24 10:19	10/17/24 23:03	UNP	Mt. Juliet, TN

MW-19R L1785334-07 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 09:50 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376599	1	10/06/24 11:30	10/07/24 09:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 21:09	10/04/24 21:09	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	5	10/05/24 02:48	10/05/24 02:48	GEB	Mt. Juliet, TN

MW-32 L1785334-08 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 09:50 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376599	1	10/06/24 11:30	10/07/24 09:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 21:26	10/04/24 21:26	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:09	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:31	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378107	1	10/15/24 10:19	10/17/24 20:37	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378107	1	10/15/24 10:19	10/17/24 23:06	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2380086	1	10/11/24 01:37	10/11/24 01:37	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 16:25	10/11/24 16:25	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2383842	1	10/17/24 08:32	10/19/24 03:50	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1	10/10/24 16:18	10/20/24 04:15	AMS	Mt. Juliet, TN

MW-33 L1785334-09 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 08:40 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376599	1	10/06/24 11:30	10/07/24 09:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 21:43	10/04/24 21:43	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 22:31	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:22	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2378108	1	10/17/24 10:33	10/17/24 18:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2380086	1	10/11/24 01:58	10/11/24 01:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 16:45	10/11/24 16:45	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2383842	1	10/17/24 08:32	10/19/24 04:10	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1	10/10/24 16:18	10/11/24 15:47	MBE	Mt. Juliet, TN

WW-NORTH L1785334-10 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 10:20 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376603	1	10/06/24 11:12	10/06/24 14:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 22:00	10/04/24 22:00	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:12	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:33	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378108	1	10/17/24 10:33	10/17/24 18:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2380086	1	10/11/24 02:20	10/11/24 02:20	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 17:04	10/11/24 17:04	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2383842	1	10/17/24 08:32	10/19/24 05:09	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1.01	10/10/24 16:18	10/11/24 04:35	AMS	Mt. Juliet, TN

WW-SOUTH L1785334-11 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 09:35 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376603	1	10/06/24 11:12	10/06/24 14:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 22:17	10/04/24 22:17	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	5	10/05/24 03:22	10/05/24 03:22	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:14	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:34	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378108	1	10/17/24 10:33	10/17/24 18:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2380086	1	10/11/24 02:41	10/11/24 02:41	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 17:24	10/11/24 17:24	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2382816	1	10/17/24 09:03	10/17/24 19:44	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1	10/10/24 16:18	10/11/24 04:56	AMS	Mt. Juliet, TN

WW-EAST L1785334-12 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 11:10 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376603	1	10/06/24 11:12	10/06/24 14:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 22:34	10/04/24 22:34	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:16	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:40	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378108	1	10/17/24 10:33	10/17/24 18:22	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2380086	1	10/11/24 03:02	10/11/24 03:02	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 17:43	10/11/24 17:43	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2382816	1	10/17/24 09:03	10/17/24 20:04	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1	10/10/24 16:18	10/11/24 05:17	AMS	Mt. Juliet, TN

DUP-01 L1785334-13 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 10:00 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376603	1	10/06/24 11:12	10/06/24 14:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 22:50	10/04/24 22:50	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	5	10/05/24 03:56	10/05/24 03:56	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:24	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:41	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378108	1	10/17/24 10:33	10/17/24 18:26	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2380086	1	10/11/24 03:23	10/11/24 03:23	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 18:03	10/11/24 18:03	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2382816	1	10/17/24 09:03	10/17/24 20:24	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1	10/10/24 16:18	10/11/24 05:39	AMS	Mt. Juliet, TN

DUP-02 L1785334-14 GW

Collected by: SU/HMI Team | Collected date/time: 10/03/24 09:00 | Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2376603	1	10/06/24 11:12	10/06/24 14:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2376126	1	10/04/24 23:07	10/04/24 23:07	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2376293	1	10/07/24 15:33	10/09/24 23:26	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2378096	1	10/21/24 15:07	10/23/24 00:43	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2378108	1	10/17/24 10:33	10/17/24 18:35	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2380086	1	10/11/24 03:44	10/11/24 03:44	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 18:22	10/11/24 18:22	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2382816	1	10/17/24 09:03	10/17/24 20:44	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379409	1	10/10/24 16:18	10/20/24 04:36	AMS	Mt. Juliet, TN

EB-01 L1785334-15 GW

Collected by: SU/HMI Team
Collected date/time: 10/03/24 11:20
Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 13:48	10/11/24 13:48	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2379410	1.02	10/10/24 16:33	10/13/24 10:20	LS	Mt. Juliet, TN

TRIP BLANK-01 L1785334-16 GW

Collected by: SU/HMI Team
Collected date/time: 10/03/24 00:00
Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 14:07	10/11/24 14:07	JAH	Mt. Juliet, TN

TRIP BLANK-02 L1785334-17 GW

Collected by: SU/HMI Team
Collected date/time: 10/03/24 00:00
Received date/time: 10/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2380457	1	10/11/24 14:27	10/11/24 14:27	JAH	Mt. Juliet, TN

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

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.



Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1785334-08	MW-32	3511/8015
L1785334-09	MW-33	8260B, 3511/8015

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
R4134294-3		6020
R4134336-3		6020

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	152		0.547	1.00	1	10/05/2024 02:16	WG2376121
Fluoride	0.595		0.0761	0.150	1	10/05/2024 02:16	WG2376121
Nitrate as (N)	14.0		0.0884	0.100	1	10/05/2024 02:16	WG2376121
Nitrite as (N)	U		0.0794	0.100	1	10/05/2024 02:16	WG2376121
Sulfate	121		0.637	5.00	1	10/05/2024 02:16	WG2376121

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:05	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.223		0.0200	0.200	1	10/18/2024 16:44	WG2378092

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 20:30	WG2378107
Arsenic,Dissolved	0.00475		0.000180	0.00200	1	10/17/2024 20:30	WG2378107
Barium,Dissolved	0.206		0.000381	0.00200	1	10/17/2024 23:00	WG2378107
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 20:30	WG2378107
Chromium,Dissolved	U		0.00124	0.00200	1	10/17/2024 20:30	WG2378107
Copper,Dissolved	0.00844		0.00151	0.00500	1	10/17/2024 20:30	WG2378107
Cobalt,Dissolved	0.000147	J	0.0000596	0.00200	1	10/17/2024 20:30	WG2378107
Iron,Dissolved	U		0.0281	0.100	1	10/17/2024 20:30	WG2378107
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 20:30	WG2378107
Manganese,Dissolved	0.00316	J	0.000704	0.00500	1	10/17/2024 20:30	WG2378107
Molybdenum,Dissolved	0.00137	J	0.000348	0.00500	1	10/17/2024 20:30	WG2378107
Nickel,Dissolved	0.00256		0.000816	0.00200	1	10/17/2024 20:30	WG2378107
Selenium,Dissolved	0.00172	J	0.000300	0.00200	1	10/17/2024 20:30	WG2378107
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 20:30	WG2378107
Uranium,Dissolved	0.00541	J	0.0000700	0.0200	1	10/17/2024 23:00	WG2378107
Zinc,Dissolved	0.0912		0.00302	0.0250	1	10/17/2024 20:30	WG2378107

MW-8
Collected date/time: 10/03/24 10:45
L1785334

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1510		50.0	1	10/06/2024 12:11	WG2376522

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	469		5.47	10.0	10	10/05/2024 03:18	WG2376121
Fluoride	0.500		0.0761	0.150	1	10/05/2024 02:46	WG2376121
Nitrate as (N)	10.2		0.0884	0.100	1	10/05/2024 02:46	WG2376121
Nitrite as (N)	U		0.0794	0.100	1	10/05/2024 02:46	WG2376121
Sulfate	113		0.637	5.00	1	10/05/2024 02:46	WG2376121

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 15:46	WG2380457
Benzene	0.000108	J	0.0000941	0.00100	1	10/11/2024 15:46	WG2380457
Bromodichloromethane	0.000550	J	0.000136	0.00100	1	10/11/2024 15:46	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 15:46	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 15:46	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 15:46	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 15:46	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 15:46	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 15:46	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 15:46	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 15:46	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 15:46	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 15:46	WG2380457
Chloroform	0.00219	J	0.000111	0.00500	1	10/11/2024 15:46	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 15:46	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 15:46	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 15:46	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 15:46	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 15:46	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 15:46	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 15:46	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 15:46	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 15:46	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 15:46	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 15:46	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 15:46	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 15:46	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 15:46	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 15:46	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 15:46	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 15:46	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 15:46	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 15:46	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 15:46	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 15:46	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 15:46	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 15:46	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 15:46	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 15:46	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 15:46	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 15:46	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 15:46	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 15:46	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 15:46	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 15:46	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 15:46	WG2380457
(S) Toluene-d8	*103*			*80.0-120*		*10/11/2024 15:46*	WG2380457
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*10/11/2024 15:46*	WG2380457
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/11/2024 15:46*	WG2380457

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	10/11/2024 03:53	WG2379409
Acenaphthylene	U		0.0000921	0.00100	1	10/11/2024 03:53	WG2379409
Acetophenone	U		0.000208	0.0100	1	10/11/2024 03:53	WG2379409
Anthracene	U		0.0000804	0.00100	1	10/11/2024 03:53	WG2379409
Atrazine	U		0.000255	0.0100	1	10/11/2024 03:53	WG2379409
Benzo(a)anthracene	U		0.000199	0.00100	1	10/11/2024 03:53	WG2379409
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	10/11/2024 03:53	WG2379409
Benzo(b)fluoranthene	U		0.000130	0.00100	1	10/11/2024 03:53	WG2379409
Benzo(k)fluoranthene	U		0.000120	0.00100	1	10/11/2024 03:53	WG2379409
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	10/11/2024 03:53	WG2379409
Benzo(a)pyrene	U		0.0000381	0.000200	1	10/11/2024 03:53	WG2379409
Biphenyl	U		0.000790	0.0100	1	10/11/2024 03:53	WG2379409
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	10/11/2024 03:53	WG2379409
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	10/11/2024 03:53	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	10/11/2024 03:53	WG2379409
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	10/11/2024 03:53	WG2379409
2-Chloronaphthalene	U		0.0000648	0.00100	1	10/11/2024 03:53	WG2379409
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	10/11/2024 03:53	WG2379409
Caprolactam	U		0.000309	0.0100	1	10/11/2024 03:53	WG2379409
Carbazole	U		0.000111	0.0100	1	10/11/2024 03:53	WG2379409
Chrysene	U		0.000130	0.00100	1	10/11/2024 03:53	WG2379409
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	10/11/2024 03:53	WG2379409
Dibenzofuran	U		0.0000970	0.0100	1	10/11/2024 03:53	WG2379409
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	10/11/2024 03:53	WG2379409
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	10/11/2024 03:53	WG2379409
2,6-Dinitrotoluene	U		0.000250	0.0100	1	10/11/2024 03:53	WG2379409
Fluoranthene	U		0.000102	0.00100	1	10/11/2024 03:53	WG2379409
Fluorene	U		0.0000844	0.00100	1	10/11/2024 03:53	WG2379409
Hexachlorobenzene	U		0.0000755	0.00100	1	10/11/2024 03:53	WG2379409
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	10/11/2024 03:53	WG2379409
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	10/11/2024 03:53	WG2379409
Hexachloroethane	U		0.000127	0.0100	1	10/11/2024 03:53	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	10/11/2024 03:53	WG2379409
Isophorone	U		0.000143	0.0100	1	10/11/2024 03:53	WG2379409
1-Methylnaphthalene	U		0.0000790	0.00100	1	10/11/2024 03:53	WG2379409
2-Methylnaphthalene	U		0.000117	0.00100	1	10/11/2024 03:53	WG2379409
Naphthalene	U		0.000159	0.00100	1	10/11/2024 03:53	WG2379409
Nitrobenzene	U		0.000297	0.0100	1	10/11/2024 03:53	WG2379409
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	10/11/2024 03:53	WG2379409
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	10/11/2024 03:53	WG2379409
Phenanthrene	U		0.000112	0.00100	1	10/11/2024 03:53	WG2379409
Benzylbutyl phthalate	U		0.000765	0.00300	1	10/11/2024 03:53	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	10/11/2024 03:53	WG2379409
Di-n-butyl phthalate	U		0.000453	0.00300	1	10/11/2024 03:53	WG2379409
Diethyl phthalate	U		0.000287	0.00300	1	10/11/2024 03:53	WG2379409
Dimethyl phthalate	U		0.000260	0.00300	1	10/11/2024 03:53	WG2379409
Di-n-octyl phthalate	U		0.000932	0.00300	1	10/11/2024 03:53	WG2379409
Pyrene	U		0.000107	0.00100	1	10/11/2024 03:53	WG2379409
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	10/11/2024 03:53	WG2379409
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	10/11/2024 03:53	WG2379409
2-Chlorophenol	U		0.000133	0.0100	1	10/11/2024 03:53	WG2379409
2,4-Dichlorophenol	U		0.000102	0.0100	1	10/11/2024 03:53	WG2379409
2,4-Dimethylphenol	U		0.0000636	0.0100	1	10/11/2024 03:53	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/11/2024 03:53	WG2379409
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/11/2024 03:53	WG2379409
2-Nitrophenol	U		0.000117	0.0100	1	10/11/2024 03:53	WG2379409

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	10/11/2024 03:53	WG2379409
2-Methylphenol	U		0.0000929	0.0100	1	10/11/2024 03:53	WG2379409
3&4-Methyl Phenol	U		0.000168	0.0100	1	10/11/2024 03:53	WG2379409
3-Nitroaniline	U		0.0000869	0.0100	1	10/11/2024 03:53	WG2379409
4-Chloroaniline	U		0.000234	0.0100	1	10/11/2024 03:53	WG2379409
4-Nitroaniline	U		0.0000910	0.0100	1	10/11/2024 03:53	WG2379409
4-Nitrophenol	U		0.000143	0.0100	1	10/11/2024 03:53	WG2379409
Pentachlorophenol	U		0.000313	0.0100	1	10/11/2024 03:53	WG2379409
Phenol	U		0.00433	0.0100	1	10/11/2024 03:53	WG2379409
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	10/11/2024 03:53	WG2379409
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	10/11/2024 03:53	WG2379409
(S) 2-Fluorophenol	*15.8*			*10.0-120*		*10/11/2024 03:53*	WG2379409
(S) Phenol-d5	*18.0*			*10.0-120*		*10/11/2024 03:53*	WG2379409
(S) Nitrobenzene-d5	*49.7*			*10.0-127*		*10/11/2024 03:53*	WG2379409
(S) 2-Fluorobiphenyl	*54.7*			*10.0-130*		*10/11/2024 03:53*	WG2379409
(S) 2,4,6-Tribromophenol	*31.8*			*10.0-155*		*10/11/2024 03:53*	WG2379409
(S) p-Terphenyl-d14	*57.6*			*10.0-128*		*10/11/2024 03:53*	WG2379409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	10/11/2024 16:05	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 16:05	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 16:05	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 16:05	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 16:05	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 16:05	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 16:05	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 16:05	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 16:05	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 16:05	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 16:05	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 16:05	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 16:05	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 16:05	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 16:05	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 16:05	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 16:05	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 16:05	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 16:05	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 16:05	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 16:05	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 16:05	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 16:05	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 16:05	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 16:05	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 16:05	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 16:05	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 16:05	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 16:05	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 16:05	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 16:05	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 16:05	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 16:05	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 16:05	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 16:05	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 16:05	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 16:05	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 16:05	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 16:05	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 16:05	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 16:05	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 16:05	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 16:05	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 16:05	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 16:05	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 16:05	WG2380457
(S) Toluene-d8	*102*			*80.0-120*		*10/11/2024 16:05*	WG2380457
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*10/11/2024 16:05*	WG2380457
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/11/2024 16:05*	WG2380457

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acenaphthene	U		0.0000913	0.00103	1.03	10/11/2024 04:14	WG2379409
Acenaphthylene	U		0.0000949	0.00103	1.03	10/11/2024 04:14	WG2379409
Acetophenone	U		0.000214	0.0103	1.03	10/11/2024 04:14	WG2379409
Anthracene	U		0.0000828	0.00103	1.03	10/11/2024 04:14	WG2379409
Atrazine	U		0.000263	0.0103	1.03	10/11/2024 04:14	WG2379409
Benzo(a)anthracene	U		0.000205	0.00103	1.03	10/11/2024 04:14	WG2379409
Benzaldehyde	U	C6 J4	0.00174	0.0103	1.03	10/11/2024 04:14	WG2379409
Benzo(b)fluoranthene	U		0.000134	0.00103	1.03	10/11/2024 04:14	WG2379409
Benzo(k)fluoranthene	U		0.000124	0.00103	1.03	10/11/2024 04:14	WG2379409
Benzo(g,h,i)perylene	U		0.000125	0.00103	1.03	10/11/2024 04:14	WG2379409
Benzo(a)pyrene	U		0.0000392	0.000206	1.03	10/11/2024 04:14	WG2379409
Biphenyl	U		0.000814	0.0103	1.03	10/11/2024 04:14	WG2379409
Bis(2-chlorethoxy)methane	U		0.000119	0.0103	1.03	10/11/2024 04:14	WG2379409
Bis(2-chloroethyl)ether	U		0.000141	0.0103	1.03	10/11/2024 04:14	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000216	0.0103	1.03	10/11/2024 04:14	WG2379409
4-Bromophenyl-phenylether	U		0.0000903	0.0103	1.03	10/11/2024 04:14	WG2379409
2-Chloronaphthalene	U		0.0000667	0.00103	1.03	10/11/2024 04:14	WG2379409
4-Chlorophenyl-phenylether	U		0.0000954	0.0103	1.03	10/11/2024 04:14	WG2379409
Caprolactam	U		0.000318	0.0103	1.03	10/11/2024 04:14	WG2379409
Carbazole	U		0.000114	0.0103	1.03	10/11/2024 04:14	WG2379409
Chrysene	U		0.000134	0.00103	1.03	10/11/2024 04:14	WG2379409
Dibenz(a,h)anthracene	U		0.0000663	0.000206	1.03	10/11/2024 04:14	WG2379409
Dibenzofuran	U		0.0000999	0.0103	1.03	10/11/2024 04:14	WG2379409
3,3-Dichlorobenzidine	U		0.000218	0.0103	1.03	10/11/2024 04:14	WG2379409
2,4-Dinitrotoluene	U		0.000101	0.0103	1.03	10/11/2024 04:14	WG2379409
2,6-Dinitrotoluene	U		0.000258	0.0103	1.03	10/11/2024 04:14	WG2379409
Fluoranthene	U		0.000105	0.00103	1.03	10/11/2024 04:14	WG2379409
Fluorene	U		0.0000869	0.00103	1.03	10/11/2024 04:14	WG2379409
Hexachlorobenzene	U		0.0000778	0.00103	1.03	10/11/2024 04:14	WG2379409
Hexachloro-1,3-butadiene	U		0.0000997	0.0103	1.03	10/11/2024 04:14	WG2379409
Hexachlorocyclopentadiene	U		0.0000616	0.0103	1.03	10/11/2024 04:14	WG2379409
Hexachloroethane	U		0.000131	0.0103	1.03	10/11/2024 04:14	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000287	0.00103	1.03	10/11/2024 04:14	WG2379409
Isophorone	U		0.000147	0.0103	1.03	10/11/2024 04:14	WG2379409
1-Methylnaphthalene	U		0.0000814	0.00103	1.03	10/11/2024 04:14	WG2379409
2-Methylnaphthalene	U		0.000121	0.00103	1.03	10/11/2024 04:14	WG2379409
Naphthalene	U		0.000164	0.00103	1.03	10/11/2024 04:14	WG2379409
Nitrobenzene	U		0.000306	0.0103	1.03	10/11/2024 04:14	WG2379409
n-Nitrosodiphenylamine	U		0.00244	0.0103	1.03	10/11/2024 04:14	WG2379409
n-Nitrosodi-n-propylamine	U		0.000269	0.0103	1.03	10/11/2024 04:14	WG2379409
Phenanthrene	U		0.000115	0.00103	1.03	10/11/2024 04:14	WG2379409
Benzylbutyl phthalate	U		0.000788	0.00309	1.03	10/11/2024 04:14	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000922	0.00309	1.03	10/11/2024 04:14	WG2379409
Di-n-butyl phthalate	U		0.000467	0.00309	1.03	10/11/2024 04:14	WG2379409
Diethyl phthalate	U		0.000296	0.00309	1.03	10/11/2024 04:14	WG2379409
Dimethyl phthalate	U		0.000268	0.00309	1.03	10/11/2024 04:14	WG2379409
Di-n-octyl phthalate	U		0.000960	0.00309	1.03	10/11/2024 04:14	WG2379409
Pyrene	U		0.000110	0.00103	1.03	10/11/2024 04:14	WG2379409
1,2,4-Trichlorobenzene	U		0.0000719	0.0103	1.03	10/11/2024 04:14	WG2379409
4-Chloro-3-methylphenol	U		0.000135	0.0103	1.03	10/11/2024 04:14	WG2379409
2-Chlorophenol	U		0.000137	0.0103	1.03	10/11/2024 04:14	WG2379409
2,4-Dichlorophenol	U		0.000105	0.0103	1.03	10/11/2024 04:14	WG2379409
2,4-Dimethylphenol	U		0.0000655	0.0103	1.03	10/11/2024 04:14	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00115	0.0103	1.03	10/11/2024 04:14	WG2379409
2,4-Dinitrophenol	U		0.00611	0.0103	1.03	10/11/2024 04:14	WG2379409
2-Nitrophenol	U		0.000121	0.0103	1.03	10/11/2024 04:14	WG2379409

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000105	0.0103	1.03	10/11/2024 04:14	WG2379409
2-Methylphenol	U		0.0000957	0.0103	1.03	10/11/2024 04:14	WG2379409
3&4-Methyl Phenol	U		0.000173	0.0103	1.03	10/11/2024 04:14	WG2379409
3-Nitroaniline	U		0.0000895	0.0103	1.03	10/11/2024 04:14	WG2379409
4-Chloroaniline	U		0.000241	0.0103	1.03	10/11/2024 04:14	WG2379409
4-Nitroaniline	U		0.0000937	0.0103	1.03	10/11/2024 04:14	WG2379409
4-Nitrophenol	U		0.000147	0.0103	1.03	10/11/2024 04:14	WG2379409
Pentachlorophenol	U		0.000322	0.0103	1.03	10/11/2024 04:14	WG2379409
Phenol	U		0.00446	0.0103	1.03	10/11/2024 04:14	WG2379409
2,4,5-Trichlorophenol	U		0.000112	0.0103	1.03	10/11/2024 04:14	WG2379409
2,4,6-Trichlorophenol	U		0.000103	0.0103	1.03	10/11/2024 04:14	WG2379409
(S) 2-Fluorophenol	*35.6*			*10.0-120*		*10/11/2024 04:14*	WG2379409
(S) Phenol-d5	*22.8*			*10.0-120*		*10/11/2024 04:14*	WG2379409
(S) Nitrobenzene-d5	*49.3*			*10.0-127*		*10/11/2024 04:14*	WG2379409
(S) 2-Fluorobiphenyl	*56.6*			*10.0-130*		*10/11/2024 04:14*	WG2379409
(S) 2,4,6-Tribromophenol	*55.3*			*10.0-155*		*10/11/2024 04:14*	WG2379409
(S) p-Terphenyl-d14	*58.5*			*10.0-128*		*10/11/2024 04:14*	WG2379409

MW-1SR
Collected date/time: 10/03/24 09:25
L1785334

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1460		25.0	1	10/07/2024 09:26	WG2376599

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	315		5.47	10.0	10	10/05/2024 03:40	WG2376121
Fluoride	0.349		0.0761	0.150	1	10/05/2024 03:29	WG2376121
Nitrate as (N)	5.73		0.0884	0.100	1	10/05/2024 03:29	WG2376121
Nitrite as (N)	U		0.0794	0.100	1	10/05/2024 03:29	WG2376121
Sulfate	155		0.637	5.00	1	10/05/2024 03:29	WG2376121

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1780		25.0	1	10/07/2024 09:26	WG2376599

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	507		5.47	10.0	10	10/05/2024 04:02	WG2376121
Fluoride	0.545		0.0761	0.150	1	10/05/2024 03:51	WG2376121
Nitrate as (N)	5.97		0.0884	0.100	1	10/05/2024 03:51	WG2376121
Nitrite as (N)	U		0.0794	0.100	1	10/05/2024 03:51	WG2376121
Sulfate	96.3		0.637	5.00	1	10/05/2024 03:51	WG2376121

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:07	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.180	J	0.0200	0.200	1	10/23/2024 00:29	WG2378096

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 20:34	WG2378107
Arsenic,Dissolved	0.00256		0.000180	0.00200	1	10/17/2024 20:34	WG2378107
Barium,Dissolved	0.136		0.000381	0.00200	1	10/17/2024 23:03	WG2378107
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 20:34	WG2378107
Chromium,Dissolved	0.0135		0.00124	0.00200	1	10/17/2024 20:34	WG2378107
Copper,Dissolved	0.00864		0.00151	0.00500	1	10/17/2024 20:34	WG2378107
Cobalt,Dissolved	0.000104	J	0.0000596	0.00200	1	10/17/2024 20:34	WG2378107
Iron,Dissolved	U		0.0281	0.100	1	10/17/2024 20:34	WG2378107
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 20:34	WG2378107
Manganese,Dissolved	0.00114	J	0.000704	0.00500	1	10/17/2024 20:34	WG2378107
Molybdenum,Dissolved	0.00173	J	0.000348	0.00500	1	10/17/2024 20:34	WG2378107
Nickel,Dissolved	0.00650		0.000816	0.00200	1	10/17/2024 20:34	WG2378107
Selenium,Dissolved	0.00228		0.000300	0.00200	1	10/17/2024 20:34	WG2378107
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 20:34	WG2378107
Uranium,Dissolved	0.00213	J	0.0000700	0.0200	1	10/17/2024 23:03	WG2378107
Zinc,Dissolved	0.193		0.00302	0.0250	1	10/17/2024 20:34	WG2378107

MW-10R
Collected date/time: 10/03/24 09:50
L1785334

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1140		20.0	1	10/07/2024 09:26	WG2376599

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	286		2.74	5.00	5	10/05/2024 02:48	WG2376126
Fluoride	0.688		0.0761	0.150	1	10/04/2024 21:09	WG2376126
Nitrate as (N)	2.27		0.0884	0.100	1	10/04/2024 21:09	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 21:09	WG2376126
Sulfate	64.4		0.637	5.00	1	10/04/2024 21:09	WG2376126

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	286		10.0	1	10/07/2024 09:26	WG2376599

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.32		0.547	1.00	1	10/04/2024 21:26	WG2376126
Fluoride	0.579		0.0761	0.150	1	10/04/2024 21:26	WG2376126
Nitrate as (N)	U		0.0884	0.100	1	10/04/2024 21:26	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 21:26	WG2376126
Sulfate	29.0		0.637	5.00	1	10/04/2024 21:26	WG2376126

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:09	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.0286	J	0.0200	0.200	1	10/23/2024 00:31	WG2378096

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 20:37	WG2378107
Arsenic,Dissolved	0.0114		0.000180	0.00200	1	10/17/2024 20:37	WG2378107
Barium,Dissolved	0.133		0.000381	0.00200	1	10/17/2024 23:06	WG2378107
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 20:37	WG2378107
Chromium,Dissolved	U		0.00124	0.00200	1	10/17/2024 20:37	WG2378107
Copper,Dissolved	0.00199	J	0.00151	0.00500	1	10/17/2024 20:37	WG2378107
Cobalt,Dissolved	0.000929	J	0.0000596	0.00200	1	10/17/2024 20:37	WG2378107
Iron,Dissolved	0.0395	J	0.0281	0.100	1	10/17/2024 20:37	WG2378107
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 20:37	WG2378107
Manganese,Dissolved	0.0829		0.000704	0.00500	1	10/17/2024 20:37	WG2378107
Molybdenum,Dissolved	0.00286	J	0.000348	0.00500	1	10/17/2024 20:37	WG2378107
Nickel,Dissolved	0.00258		0.000816	0.00200	1	10/17/2024 20:37	WG2378107
Selenium,Dissolved	U		0.000300	0.00200	1	10/17/2024 20:37	WG2378107
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 20:37	WG2378107
Uranium,Dissolved	0.00131	J	0.0000700	0.0200	1	10/17/2024 23:06	WG2378107
Zinc,Dissolved	0.0121	J	0.00302	0.0250	1	10/17/2024 20:37	WG2378107

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0855	B J	0.0314	0.100	1	10/11/2024 01:37	WG2380086
(S) a,a,a-Trifluorotoluene(FID)	*86.6*			*78.0-120*		*10/11/2024 01:37*	WG2380086

Received by OCD: 4/15/2025 7:55:48 AM

MW-32
Collected date/time: 10/03/24 09:50
L1785334

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 16:25	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 16:25	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 16:25	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 16:25	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 16:25	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 16:25	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 16:25	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 16:25	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 16:25	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 16:25	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 16:25	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 16:25	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 16:25	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 16:25	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 16:25	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 16:25	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 16:25	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 16:25	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 16:25	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 16:25	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 16:25	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 16:25	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 16:25	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 16:25	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 16:25	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 16:25	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 16:25	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 16:25	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 16:25	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 16:25	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 16:25	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 16:25	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 16:25	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 16:25	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 16:25	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 16:25	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 16:25	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 16:25	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 16:25	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 16:25	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 16:25	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 16:25	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 16:25	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 16:25	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 16:25	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 16:25	WG2380457
(S) Toluene-d8	*102*			*80.0-120*		*10/11/2024 16:25*	WG2380457
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*10/11/2024 16:25*	WG2380457
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/11/2024 16:25*	WG2380457

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.851		0.0247	0.100	1	10/19/2024 03:50	WG2383842
(S) o-Terphenyl	*90.5*			*52.0-156*		*10/19/2024 03:50*	WG2383842

Released to Imaging: 5/2/2025 9:53:52 AM

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	10/20/2024 04:15	WG2379409
Acenaphthylene	U		0.0000921	0.00100	1	10/20/2024 04:15	WG2379409
Acetophenone	U		0.000208	0.0100	1	10/20/2024 04:15	WG2379409
Anthracene	U		0.0000804	0.00100	1	10/20/2024 04:15	WG2379409
Atrazine	U		0.000255	0.0100	1	10/20/2024 04:15	WG2379409
Benzo(a)anthracene	U		0.000199	0.00100	1	10/20/2024 04:15	WG2379409
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	10/20/2024 04:15	WG2379409
Benzo(b)fluoranthene	U		0.000130	0.00100	1	10/20/2024 04:15	WG2379409
Benzo(k)fluoranthene	U		0.000120	0.00100	1	10/20/2024 04:15	WG2379409
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	10/20/2024 04:15	WG2379409
Benzo(a)pyrene	U		0.0000381	0.000200	1	10/20/2024 04:15	WG2379409
Biphenyl	U		0.000790	0.0100	1	10/20/2024 04:15	WG2379409
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	10/20/2024 04:15	WG2379409
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	10/20/2024 04:15	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	10/20/2024 04:15	WG2379409
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	10/20/2024 04:15	WG2379409
2-Chloronaphthalene	U		0.0000648	0.00100	1	10/20/2024 04:15	WG2379409
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	10/20/2024 04:15	WG2379409
Caprolactam	U		0.000309	0.0100	1	10/20/2024 04:15	WG2379409
Carbazole	U		0.000111	0.0100	1	10/20/2024 04:15	WG2379409
Chrysene	U		0.000130	0.00100	1	10/20/2024 04:15	WG2379409
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	10/20/2024 04:15	WG2379409
Dibenzofuran	U		0.0000970	0.0100	1	10/20/2024 04:15	WG2379409
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	10/20/2024 04:15	WG2379409
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	10/20/2024 04:15	WG2379409
2,6-Dinitrotoluene	U		0.000250	0.0100	1	10/20/2024 04:15	WG2379409
Fluoranthene	U		0.000102	0.00100	1	10/20/2024 04:15	WG2379409
Fluorene	U		0.0000844	0.00100	1	10/20/2024 04:15	WG2379409
Hexachlorobenzene	U		0.0000755	0.00100	1	10/20/2024 04:15	WG2379409
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	10/20/2024 04:15	WG2379409
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	10/20/2024 04:15	WG2379409
Hexachloroethane	U		0.000127	0.0100	1	10/20/2024 04:15	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	10/20/2024 04:15	WG2379409
Isophorone	U		0.000143	0.0100	1	10/20/2024 04:15	WG2379409
1-Methylnaphthalene	U		0.0000790	0.00100	1	10/20/2024 04:15	WG2379409
2-Methylnaphthalene	U		0.000117	0.00100	1	10/20/2024 04:15	WG2379409
Naphthalene	U		0.000159	0.00100	1	10/20/2024 04:15	WG2379409
Nitrobenzene	U		0.000297	0.0100	1	10/20/2024 04:15	WG2379409
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	10/20/2024 04:15	WG2379409
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	10/20/2024 04:15	WG2379409
Phenanthrene	U		0.000112	0.00100	1	10/20/2024 04:15	WG2379409
Benzylbutyl phthalate	U		0.000765	0.00300	1	10/20/2024 04:15	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	10/20/2024 04:15	WG2379409
Di-n-butyl phthalate	U		0.000453	0.00300	1	10/20/2024 04:15	WG2379409
Diethyl phthalate	U		0.000287	0.00300	1	10/20/2024 04:15	WG2379409
Dimethyl phthalate	U		0.000260	0.00300	1	10/20/2024 04:15	WG2379409
Di-n-octyl phthalate	U		0.000932	0.00300	1	10/20/2024 04:15	WG2379409
Pyrene	U		0.000107	0.00100	1	10/20/2024 04:15	WG2379409
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	10/20/2024 04:15	WG2379409
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	10/20/2024 04:15	WG2379409
2-Chlorophenol	U		0.000133	0.0100	1	10/20/2024 04:15	WG2379409
2,4-Dichlorophenol	U		0.000102	0.0100	1	10/20/2024 04:15	WG2379409
2,4-Dimethylphenol	U		0.0000636	0.0100	1	10/20/2024 04:15	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/20/2024 04:15	WG2379409
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/20/2024 04:15	WG2379409
2-Nitrophenol	U		0.000117	0.0100	1	10/20/2024 04:15	WG2379409

MW-32
Collected date/time: 10/03/24 09:50
L1785334

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	10/20/2024 04:15	WG2379409
2-Methylphenol	U		0.0000929	0.0100	1	10/20/2024 04:15	WG2379409
3&4-Methyl Phenol	U		0.000168	0.0100	1	10/20/2024 04:15	WG2379409
3-Nitroaniline	U		0.0000869	0.0100	1	10/20/2024 04:15	WG2379409
4-Chloroaniline	U		0.000234	0.0100	1	10/20/2024 04:15	WG2379409
4-Nitroaniline	U		0.0000910	0.0100	1	10/20/2024 04:15	WG2379409
4-Nitrophenol	U		0.000143	0.0100	1	10/20/2024 04:15	WG2379409
Pentachlorophenol	0.00150	J	0.000313	0.0100	1	10/20/2024 04:15	WG2379409
Phenol	U		0.00433	0.0100	1	10/20/2024 04:15	WG2379409
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	10/20/2024 04:15	WG2379409
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	10/20/2024 04:15	WG2379409
(S) 2-Fluorophenol	*26.6*			*10.0-120*		*10/20/2024 04:15*	WG2379409
(S) Phenol-d5	*20.2*			*10.0-120*		*10/20/2024 04:15*	WG2379409
(S) Nitrobenzene-d5	*52.7*			*10.0-127*		*10/20/2024 04:15*	WG2379409
(S) 2-Fluorobiphenyl	*52.0*			*10.0-130*		*10/20/2024 04:15*	WG2379409
(S) 2,4,6-Tribromophenol	*41.1*			*10.0-155*		*10/20/2024 04:15*	WG2379409
(S) p-Terphenyl-d14	*40.9*			*10.0-128*		*10/20/2024 04:15*	WG2379409

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1230		20.0	1	10/07/2024 09:26	WG2376599

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	102		0.547	1.00	1	10/04/2024 21:43	WG2376126
Fluoride	0.593		0.0761	0.150	1	10/04/2024 21:43	WG2376126
Nitrate as (N)	U		0.0884	0.100	1	10/04/2024 21:43	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 21:43	WG2376126
Sulfate	1.10	J	0.637	5.00	1	10/04/2024 21:43	WG2376126

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U	J6	0.0000700	0.000200	1	10/09/2024 22:31	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.148	J	0.0200	0.200	1	10/23/2024 00:22	WG2378096

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0160	0.100	1	10/17/2024 18:04	WG2378108
Arsenic,Dissolved	0.00395		0.000120	0.00200	1	10/17/2024 18:04	WG2378108
Barium,Dissolved	0.691		0.000500	0.00200	1	10/17/2024 18:04	WG2378108
Cadmium,Dissolved	U		0.000120	0.00100	1	10/17/2024 18:04	WG2378108
Chromium,Dissolved	U		0.000900	0.00200	1	10/17/2024 18:04	WG2378108
Copper,Dissolved	U		0.000700	0.00500	1	10/17/2024 18:04	WG2378108
Cobalt,Dissolved	0.000167	J	0.000100	0.00200	1	10/17/2024 18:04	WG2378108
Iron,Dissolved	1.28		0.0226	0.100	1	10/17/2024 18:04	WG2378108
Lead,Dissolved	U		0.000500	0.00200	1	10/17/2024 18:04	WG2378108
Manganese,Dissolved	0.704		0.000700	0.00500	1	10/17/2024 18:04	WG2378108
Molybdenum,Dissolved	0.00203	J	0.000500	0.00500	1	10/17/2024 18:04	WG2378108
Nickel,Dissolved	0.00128	J	0.000500	0.00200	1	10/17/2024 18:04	WG2378108
Selenium,Dissolved	U		0.000250	0.00200	1	10/17/2024 18:04	WG2378108
Silver,Dissolved	U		0.000110	0.00200	1	10/17/2024 18:04	WG2378108
Uranium,Dissolved	0.0600		0.000130	0.00100	1	10/17/2024 18:04	WG2378108
Zinc,Dissolved	U		0.00400	0.0250	1	10/17/2024 18:04	WG2378108

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0957	B J	0.0314	0.100	1	10/11/2024 01:58	WG2380086
(S) a,a,a-Trifluorotoluene(FID)	*85.6*			*78.0-120*		*10/11/2024 01:58*	WG2380086

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 16:45	WG2380457
Benzene	0.000155	J	0.0000941	0.00100	1	10/11/2024 16:45	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 16:45	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 16:45	WG2380457
Bromomethane	U	J3	0.000605	0.00500	1	10/11/2024 16:45	WG2380457
n-Butylbenzene	U	J3	0.000157	0.00100	1	10/11/2024 16:45	WG2380457
sec-Butylbenzene	U	J3	0.000125	0.00100	1	10/11/2024 16:45	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 16:45	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 16:45	WG2380457
Carbon tetrachloride	U	J3	0.000128	0.00100	1	10/11/2024 16:45	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 16:45	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 16:45	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 16:45	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 16:45	WG2380457
Chloromethane	U	J3	0.000960	0.00250	1	10/11/2024 16:45	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 16:45	WG2380457
1,1-Dichloroethane	U	J3	0.000100	0.00100	1	10/11/2024 16:45	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 16:45	WG2380457
1,1-Dichloroethene	U	J3	0.000188	0.00100	1	10/11/2024 16:45	WG2380457
cis-1,2-Dichloroethene	U	J3	0.000126	0.00100	1	10/11/2024 16:45	WG2380457
trans-1,2-Dichloroethene	U	J3	0.000149	0.00100	1	10/11/2024 16:45	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 16:45	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 16:45	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 16:45	WG2380457
Ethylbenzene	U	J3	0.000137	0.00100	1	10/11/2024 16:45	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 16:45	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 16:45	WG2380457
Isopropylbenzene	U	J3	0.000105	0.00100	1	10/11/2024 16:45	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 16:45	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 16:45	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 16:45	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 16:45	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 16:45	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 16:45	WG2380457
n-Propylbenzene	U	J3	0.0000993	0.00100	1	10/11/2024 16:45	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 16:45	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 16:45	WG2380457
Tetrachloroethene	U	J3	0.000300	0.00100	1	10/11/2024 16:45	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 16:45	WG2380457
1,1,1-Trichloroethane	U	J3	0.000149	0.00100	1	10/11/2024 16:45	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 16:45	WG2380457
Trichloroethene	U	J3	0.000190	0.00100	1	10/11/2024 16:45	WG2380457
1,2,4-Trimethylbenzene	U	J3	0.000322	0.00100	1	10/11/2024 16:45	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 16:45	WG2380457
Vinyl chloride	U	J3	0.000234	0.00100	1	10/11/2024 16:45	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 16:45	WG2380457
(S) Toluene-d8	*105*			*80.0-120*		*10/11/2024 16:45*	WG2380457
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/11/2024 16:45*	WG2380457
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/11/2024 16:45*	WG2380457

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.124	J3 J6	0.0247	0.100	1	10/19/2024 04:10	WG2383842
(S) o-Terphenyl	*108*			*52.0-156*		*10/19/2024 04:10*	WG2383842

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U	J3	0.0000886	0.00100	1	10/11/2024 15:47	WG2379409
Acenaphthylene	U	J3	0.0000921	0.00100	1	10/11/2024 15:47	WG2379409
Acetophenone	U	J3	0.000208	0.0100	1	10/11/2024 15:47	WG2379409
Anthracene	U	J3	0.0000804	0.00100	1	10/11/2024 15:47	WG2379409
Atrazine	U	J3	0.000255	0.0100	1	10/11/2024 15:47	WG2379409
Benzo(a)anthracene	U	J3	0.000199	0.00100	1	10/11/2024 15:47	WG2379409
Benzaldehyde	U	J3 J4 J5	0.00169	0.0100	1	10/11/2024 15:47	WG2379409
Benzo(b)fluoranthene	U	J3	0.000130	0.00100	1	10/11/2024 15:47	WG2379409
Benzo(k)fluoranthene	U	J3	0.000120	0.00100	1	10/11/2024 15:47	WG2379409
Benzo(g,h,i)perylene	U	J3 J6	0.000121	0.00100	1	10/11/2024 15:47	WG2379409
Benzo(a)pyrene	U	J3 J6	0.0000381	0.000200	1	10/11/2024 15:47	WG2379409
Biphenyl	U	J3	0.000790	0.0100	1	10/11/2024 15:47	WG2379409
Bis(2-chlorethoxy)methane	U	J3	0.000116	0.0100	1	10/11/2024 15:47	WG2379409
Bis(2-chloroethyl)ether	U	J3	0.000137	0.0100	1	10/11/2024 15:47	WG2379409
2,2-Oxybis(1-Chloropropane)	U	J3	0.000210	0.0100	1	10/11/2024 15:47	WG2379409
4-Bromophenyl-phenylether	U	J3	0.0000877	0.0100	1	10/11/2024 15:47	WG2379409
2-Chloronaphthalene	U	J3	0.0000648	0.00100	1	10/11/2024 15:47	WG2379409
4-Chlorophenyl-phenylether	U	J3	0.0000926	0.0100	1	10/11/2024 15:47	WG2379409
Caprolactam	U		0.000309	0.0100	1	10/11/2024 15:47	WG2379409
Carbazole	U	J3	0.000111	0.0100	1	10/11/2024 15:47	WG2379409
Chrysene	U	J3	0.000130	0.00100	1	10/11/2024 15:47	WG2379409
Dibenz(a,h)anthracene	U	J3	0.0000644	0.000200	1	10/11/2024 15:47	WG2379409
Dibenzofuran	U	J3	0.0000970	0.0100	1	10/11/2024 15:47	WG2379409
3,3-Dichlorobenzidine	U	J3	0.000212	0.0100	1	10/11/2024 15:47	WG2379409
2,4-Dinitrotoluene	U	J3	0.0000983	0.0100	1	10/11/2024 15:47	WG2379409
2,6-Dinitrotoluene	U	J3	0.000250	0.0100	1	10/11/2024 15:47	WG2379409
Fluoranthene	U	J3 J6	0.000102	0.00100	1	10/11/2024 15:47	WG2379409
Fluorene	U	J3	0.0000844	0.00100	1	10/11/2024 15:47	WG2379409
Hexachlorobenzene	U	J3	0.0000755	0.00100	1	10/11/2024 15:47	WG2379409
Hexachloro-1,3-butadiene	U	J3	0.0000968	0.0100	1	10/11/2024 15:47	WG2379409
Hexachlorocyclopentadiene	U	J3	0.0000598	0.0100	1	10/11/2024 15:47	WG2379409
Hexachloroethane	U	J3	0.000127	0.0100	1	10/11/2024 15:47	WG2379409
Indeno(1,2,3-cd)pyrene	U	J3 J6	0.000279	0.00100	1	10/11/2024 15:47	WG2379409
Isophorone	U	J3	0.000143	0.0100	1	10/11/2024 15:47	WG2379409
1-Methylnaphthalene	U	J3	0.0000790	0.00100	1	10/11/2024 15:47	WG2379409
2-Methylnaphthalene	U	J3	0.000117	0.00100	1	10/11/2024 15:47	WG2379409
Naphthalene	U	J3	0.000159	0.00100	1	10/11/2024 15:47	WG2379409
Nitrobenzene	U	J3	0.000297	0.0100	1	10/11/2024 15:47	WG2379409
n-Nitrosodiphenylamine	U	J3 J6	0.00237	0.0100	1	10/11/2024 15:47	WG2379409
n-Nitrosodi-n-propylamine	U	J3	0.000261	0.0100	1	10/11/2024 15:47	WG2379409
Phenanthrene	U	J3	0.000112	0.00100	1	10/11/2024 15:47	WG2379409
Benzylbutyl phthalate	U	J3	0.000765	0.00300	1	10/11/2024 15:47	WG2379409
Bis(2-ethylhexyl)phthalate	U	J3	0.000895	0.00300	1	10/11/2024 15:47	WG2379409
Di-n-butyl phthalate	U	J3	0.000453	0.00300	1	10/11/2024 15:47	WG2379409
Diethyl phthalate	U	J3	0.000287	0.00300	1	10/11/2024 15:47	WG2379409
Dimethyl phthalate	U	J3	0.000260	0.00300	1	10/11/2024 15:47	WG2379409
Di-n-octyl phthalate	U	J3	0.000932	0.00300	1	10/11/2024 15:47	WG2379409
Pyrene	U	J3 J6	0.000107	0.00100	1	10/11/2024 15:47	WG2379409
1,2,4-Trichlorobenzene	U	J3	0.0000698	0.0100	1	10/11/2024 15:47	WG2379409
4-Chloro-3-methylphenol	U	J3	0.000131	0.0100	1	10/11/2024 15:47	WG2379409
2-Chlorophenol	U	J3	0.000133	0.0100	1	10/11/2024 15:47	WG2379409
2,4-Dichlorophenol	U	J3	0.000102	0.0100	1	10/11/2024 15:47	WG2379409
2,4-Dimethylphenol	U	J3	0.0000636	0.0100	1	10/11/2024 15:47	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/11/2024 15:47	WG2379409
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/11/2024 15:47	WG2379409
2-Nitrophenol	U	J3	0.000117	0.0100	1	10/11/2024 15:47	WG2379409

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U	J3	0.000102	0.0100	1	10/11/2024 15:47	WG2379409
2-Methylphenol	U	J3	0.0000929	0.0100	1	10/11/2024 15:47	WG2379409
3&4-Methyl Phenol	U	J3	0.000168	0.0100	1	10/11/2024 15:47	WG2379409
3-Nitroaniline	U	J3	0.0000869	0.0100	1	10/11/2024 15:47	WG2379409
4-Chloroaniline	U	J3	0.000234	0.0100	1	10/11/2024 15:47	WG2379409
4-Nitroaniline	U	J3	0.0000910	0.0100	1	10/11/2024 15:47	WG2379409
4-Nitrophenol	U	J3 J5	0.000143	0.0100	1	10/11/2024 15:47	WG2379409
Pentachlorophenol	U		0.000313	0.0100	1	10/11/2024 15:47	WG2379409
Phenol	U	J3	0.00433	0.0100	1	10/11/2024 15:47	WG2379409
2,4,5-Trichlorophenol	U	J3	0.000109	0.0100	1	10/11/2024 15:47	WG2379409
2,4,6-Trichlorophenol	U	J3	0.000100	0.0100	1	10/11/2024 15:47	WG2379409
(S) 2-Fluorophenol	*34.2*			*10.0-120*		*10/11/2024 15:47*	WG2379409
(S) Phenol-d5	*21.5*			*10.0-120*		*10/11/2024 15:47*	WG2379409
(S) Nitrobenzene-d5	*55.5*			*10.0-127*		*10/11/2024 15:47*	WG2379409
(S) 2-Fluorobiphenyl	*47.6*			*10.0-130*		*10/11/2024 15:47*	WG2379409
(S) 2,4,6-Tribromophenol	*41.6*			*10.0-155*		*10/11/2024 15:47*	WG2379409
(S) p-Terphenyl-d14	*49.1*			*10.0-128*		*10/11/2024 15:47*	WG2379409

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	550		10.0	1	10/06/2024 14:20	WG2376603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	115		0.547	1.00	1	10/04/2024 22:00	WG2376126
Fluoride	0.880		0.0761	0.150	1	10/04/2024 22:00	WG2376126
Nitrate as (N)	2.85		0.0884	0.100	1	10/04/2024 22:00	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 22:00	WG2376126
Sulfate	78.2		0.637	5.00	1	10/04/2024 22:00	WG2376126

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:12	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.132	J	0.0200	0.200	1	10/23/2024 00:33	WG2378096

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 18:16	WG2378108
Arsenic,Dissolved	0.00563		0.000180	0.00200	1	10/17/2024 18:16	WG2378108
Barium,Dissolved	0.104		0.000381	0.00200	1	10/17/2024 18:16	WG2378108
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 18:16	WG2378108
Chromium,Dissolved	0.00272		0.00124	0.00200	1	10/17/2024 18:16	WG2378108
Copper,Dissolved	0.00581		0.00151	0.00500	1	10/17/2024 18:16	WG2378108
Cobalt,Dissolved	0.000194	J	0.0000596	0.00200	1	10/17/2024 18:16	WG2378108
Iron,Dissolved	U		0.0281	0.100	1	10/17/2024 18:16	WG2378108
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 18:16	WG2378108
Manganese,Dissolved	0.00170	J	0.000704	0.00500	1	10/17/2024 18:16	WG2378108
Molybdenum,Dissolved	0.00276	J	0.000348	0.00500	1	10/17/2024 18:16	WG2378108
Nickel,Dissolved	0.00200	J	0.000816	0.00200	1	10/17/2024 18:16	WG2378108
Selenium,Dissolved	0.00344		0.000300	0.00200	1	10/17/2024 18:16	WG2378108
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 18:16	WG2378108
Uranium,Dissolved	0.00168	J	0.0000700	0.0200	1	10/17/2024 18:16	WG2378108
Zinc,Dissolved	0.0234	J	0.00302	0.0250	1	10/17/2024 18:16	WG2378108

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0852	B J	0.0314	0.100	1	10/11/2024 02:20	WG2380086
(S) a,a,a-Trifluorotoluene(FID)	*86.5*			*78.0-120*		*10/11/2024 02:20*	WG2380086

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 17:04	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 17:04	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 17:04	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 17:04	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 17:04	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 17:04	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 17:04	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 17:04	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 17:04	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 17:04	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 17:04	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 17:04	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 17:04	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 17:04	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 17:04	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 17:04	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 17:04	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 17:04	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 17:04	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 17:04	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 17:04	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 17:04	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 17:04	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 17:04	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 17:04	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 17:04	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 17:04	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 17:04	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 17:04	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 17:04	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 17:04	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 17:04	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 17:04	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 17:04	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 17:04	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 17:04	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 17:04	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 17:04	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 17:04	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 17:04	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 17:04	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 17:04	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 17:04	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 17:04	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 17:04	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 17:04	WG2380457
(S) Toluene-d8	*104*			*80.0-120*		*10/11/2024 17:04*	WG2380457
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*10/11/2024 17:04*	WG2380457
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/11/2024 17:04*	WG2380457

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0252	J	0.0247	0.100	1	10/19/2024 05:09	WG2383842
(S) o-Terphenyl	*107*			*52.0-156*		*10/19/2024 05:09*	WG2383842

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acenaphthene	U		0.0000895	0.00101	1.01	10/11/2024 04:35	WG2379409
Acenaphthylene	U		0.0000930	0.00101	1.01	10/11/2024 04:35	WG2379409
Acetophenone	U		0.000210	0.0101	1.01	10/11/2024 04:35	WG2379409
Anthracene	U		0.0000812	0.00101	1.01	10/11/2024 04:35	WG2379409
Atrazine	U		0.000258	0.0101	1.01	10/11/2024 04:35	WG2379409
Benzo(a)anthracene	U		0.000201	0.00101	1.01	10/11/2024 04:35	WG2379409
Benzaldehyde	U	C6 J4	0.00171	0.0101	1.01	10/11/2024 04:35	WG2379409
Benzo(b)fluoranthene	U		0.000131	0.00101	1.01	10/11/2024 04:35	WG2379409
Benzo(k)fluoranthene	U		0.000121	0.00101	1.01	10/11/2024 04:35	WG2379409
Benzo(g,h,i)perylene	U		0.000122	0.00101	1.01	10/11/2024 04:35	WG2379409
Benzo(a)pyrene	U		0.0000385	0.000202	1.01	10/11/2024 04:35	WG2379409
Biphenyl	U		0.000798	0.0101	1.01	10/11/2024 04:35	WG2379409
Bis(2-chlorethoxy)methane	U		0.000117	0.0101	1.01	10/11/2024 04:35	WG2379409
Bis(2-chloroethyl)ether	U		0.000138	0.0101	1.01	10/11/2024 04:35	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000212	0.0101	1.01	10/11/2024 04:35	WG2379409
4-Bromophenyl-phenylether	U		0.0000886	0.0101	1.01	10/11/2024 04:35	WG2379409
2-Chloronaphthalene	U		0.0000654	0.00101	1.01	10/11/2024 04:35	WG2379409
4-Chlorophenyl-phenylether	U		0.0000935	0.0101	1.01	10/11/2024 04:35	WG2379409
Caprolactam	U		0.000312	0.0101	1.01	10/11/2024 04:35	WG2379409
Carbazole	U		0.000112	0.0101	1.01	10/11/2024 04:35	WG2379409
Chrysene	U		0.000131	0.00101	1.01	10/11/2024 04:35	WG2379409
Dibenz(a,h)anthracene	U		0.0000650	0.000202	1.01	10/11/2024 04:35	WG2379409
Dibenzofuran	U		0.0000980	0.0101	1.01	10/11/2024 04:35	WG2379409
3,3-Dichlorobenzidine	U		0.000214	0.0101	1.01	10/11/2024 04:35	WG2379409
2,4-Dinitrotoluene	U		0.0000993	0.0101	1.01	10/11/2024 04:35	WG2379409
2,6-Dinitrotoluene	U		0.000253	0.0101	1.01	10/11/2024 04:35	WG2379409
Fluoranthene	U		0.000103	0.00101	1.01	10/11/2024 04:35	WG2379409
Fluorene	U		0.0000852	0.00101	1.01	10/11/2024 04:35	WG2379409
Hexachlorobenzene	U		0.0000763	0.00101	1.01	10/11/2024 04:35	WG2379409
Hexachloro-1,3-butadiene	U		0.0000978	0.0101	1.01	10/11/2024 04:35	WG2379409
Hexachlorocyclopentadiene	U		0.0000604	0.0101	1.01	10/11/2024 04:35	WG2379409
Hexachloroethane	U		0.000128	0.0101	1.01	10/11/2024 04:35	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000282	0.00101	1.01	10/11/2024 04:35	WG2379409
Isophorone	U		0.000144	0.0101	1.01	10/11/2024 04:35	WG2379409
1-Methylnaphthalene	U		0.0000798	0.00101	1.01	10/11/2024 04:35	WG2379409
2-Methylnaphthalene	U		0.000118	0.00101	1.01	10/11/2024 04:35	WG2379409
Naphthalene	U		0.000161	0.00101	1.01	10/11/2024 04:35	WG2379409
Nitrobenzene	U		0.000300	0.0101	1.01	10/11/2024 04:35	WG2379409
n-Nitrosodiphenylamine	U		0.00239	0.0101	1.01	10/11/2024 04:35	WG2379409
n-Nitrosodi-n-propylamine	U		0.000264	0.0101	1.01	10/11/2024 04:35	WG2379409
Phenanthrene	U		0.000113	0.00101	1.01	10/11/2024 04:35	WG2379409
Benzylbutyl phthalate	U		0.000773	0.00303	1.01	10/11/2024 04:35	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000904	0.00303	1.01	10/11/2024 04:35	WG2379409
Di-n-butyl phthalate	U		0.000458	0.00303	1.01	10/11/2024 04:35	WG2379409
Diethyl phthalate	U		0.000290	0.00303	1.01	10/11/2024 04:35	WG2379409
Dimethyl phthalate	U		0.000263	0.00303	1.01	10/11/2024 04:35	WG2379409
Di-n-octyl phthalate	U		0.000941	0.00303	1.01	10/11/2024 04:35	WG2379409
Pyrene	U		0.000108	0.00101	1.01	10/11/2024 04:35	WG2379409
1,2,4-Trichlorobenzene	U		0.0000705	0.0101	1.01	10/11/2024 04:35	WG2379409
4-Chloro-3-methylphenol	U		0.000132	0.0101	1.01	10/11/2024 04:35	WG2379409
2-Chlorophenol	U		0.000134	0.0101	1.01	10/11/2024 04:35	WG2379409
2,4-Dichlorophenol	U		0.000103	0.0101	1.01	10/11/2024 04:35	WG2379409
2,4-Dimethylphenol	U		0.0000642	0.0101	1.01	10/11/2024 04:35	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00113	0.0101	1.01	10/11/2024 04:35	WG2379409
2,4-Dinitrophenol	U		0.00599	0.0101	1.01	10/11/2024 04:35	WG2379409
2-Nitrophenol	U		0.000118	0.0101	1.01	10/11/2024 04:35	WG2379409

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000103	0.0101	1.01	10/11/2024 04:35	WG2379409
2-Methylphenol	U		0.0000938	0.0101	1.01	10/11/2024 04:35	WG2379409
3&4-Methyl Phenol	U		0.000170	0.0101	1.01	10/11/2024 04:35	WG2379409
3-Nitroaniline	U		0.0000878	0.0101	1.01	10/11/2024 04:35	WG2379409
4-Chloroaniline	U		0.000236	0.0101	1.01	10/11/2024 04:35	WG2379409
4-Nitroaniline	U		0.0000919	0.0101	1.01	10/11/2024 04:35	WG2379409
4-Nitrophenol	U		0.000144	0.0101	1.01	10/11/2024 04:35	WG2379409
Pentachlorophenol	U		0.000316	0.0101	1.01	10/11/2024 04:35	WG2379409
Phenol	U		0.00437	0.0101	1.01	10/11/2024 04:35	WG2379409
2,4,5-Trichlorophenol	U		0.000110	0.0101	1.01	10/11/2024 04:35	WG2379409
2,4,6-Trichlorophenol	U		0.000101	0.0101	1.01	10/11/2024 04:35	WG2379409
(S) 2-Fluorophenol	*37.0*			*10.0-120*		*10/11/2024 04:35*	WG2379409
(S) Phenol-d5	*22.8*			*10.0-120*		*10/11/2024 04:35*	WG2379409
(S) Nitrobenzene-d5	*49.5*			*10.0-127*		*10/11/2024 04:35*	WG2379409
(S) 2-Fluorobiphenyl	*56.3*			*10.0-130*		*10/11/2024 04:35*	WG2379409
(S) 2,4,6-Tribromophenol	*56.4*			*10.0-155*		*10/11/2024 04:35*	WG2379409
(S) p-Terphenyl-d14	*58.3*			*10.0-128*		*10/11/2024 04:35*	WG2379409

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1120		20.0	1	10/06/2024 14:20	WG2376603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	328		2.74	5.00	5	10/05/2024 03:22	WG2376126
Fluoride	0.746		0.0761	0.150	1	10/04/2024 22:17	WG2376126
Nitrate as (N)	3.02		0.0884	0.100	1	10/04/2024 22:17	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 22:17	WG2376126
Sulfate	88.5		0.637	5.00	1	10/04/2024 22:17	WG2376126

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:14	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.174	J	0.0200	0.200	1	10/23/2024 00:34	WG2378096

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 18:19	WG2378108
Arsenic,Dissolved	0.00465		0.000180	0.00200	1	10/17/2024 18:19	WG2378108
Barium,Dissolved	0.104		0.000381	0.00200	1	10/17/2024 18:19	WG2378108
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 18:19	WG2378108
Chromium,Dissolved	0.00125	J	0.00124	0.00200	1	10/17/2024 18:19	WG2378108
Copper,Dissolved	U		0.00151	0.00500	1	10/17/2024 18:19	WG2378108
Cobalt,Dissolved	0.0000649	J	0.0000596	0.00200	1	10/17/2024 18:19	WG2378108
Iron,Dissolved	U		0.0281	0.100	1	10/17/2024 18:19	WG2378108
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 18:19	WG2378108
Manganese,Dissolved	0.00242	J	0.000704	0.00500	1	10/17/2024 18:19	WG2378108
Molybdenum,Dissolved	0.00192	J	0.000348	0.00500	1	10/17/2024 18:19	WG2378108
Nickel,Dissolved	0.00610		0.000816	0.00200	1	10/17/2024 18:19	WG2378108
Selenium,Dissolved	0.00359		0.000300	0.00200	1	10/17/2024 18:19	WG2378108
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 18:19	WG2378108
Uranium,Dissolved	0.00201	J	0.0000700	0.0200	1	10/17/2024 18:19	WG2378108
Zinc,Dissolved	0.0383		0.00302	0.0250	1	10/17/2024 18:19	WG2378108

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0835	B J	0.0314	0.100	1	10/11/2024 02:41	WG2380086
(S) a,a,a-Trifluorotoluene(FID)	*86.6*			*78.0-120*		*10/11/2024 02:41*	WG2380086

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 17:24	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 17:24	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 17:24	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 17:24	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 17:24	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 17:24	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 17:24	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 17:24	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 17:24	WG2380457
Carbon tetrachloride	0.000426	J	0.000128	0.00100	1	10/11/2024 17:24	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 17:24	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 17:24	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 17:24	WG2380457
Chloroform	0.000930	J	0.000111	0.00500	1	10/11/2024 17:24	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 17:24	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 17:24	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 17:24	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 17:24	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 17:24	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 17:24	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 17:24	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 17:24	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 17:24	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 17:24	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 17:24	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 17:24	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 17:24	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 17:24	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 17:24	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 17:24	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 17:24	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 17:24	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 17:24	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 17:24	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 17:24	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 17:24	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 17:24	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 17:24	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 17:24	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 17:24	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 17:24	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 17:24	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 17:24	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 17:24	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 17:24	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 17:24	WG2380457
(S) Toluene-d8	*104*			*80.0-120*		*10/11/2024 17:24*	WG2380457
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/11/2024 17:24*	WG2380457
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/11/2024 17:24*	WG2380457

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0638	J	0.0247	0.100	1	10/17/2024 19:44	WG2382816
(S) o-Terphenyl	*113*			*52.0-156*		*10/17/2024 19:44*	WG2382816

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acenaphthene	U		0.0000886	0.00100	1	10/11/2024 04:56	WG2379409
Acenaphthylene	U		0.0000921	0.00100	1	10/11/2024 04:56	WG2379409
Acetophenone	U		0.000208	0.0100	1	10/11/2024 04:56	WG2379409
Anthracene	U		0.0000804	0.00100	1	10/11/2024 04:56	WG2379409
Atrazine	U		0.000255	0.0100	1	10/11/2024 04:56	WG2379409
Benzo(a)anthracene	U		0.000199	0.00100	1	10/11/2024 04:56	WG2379409
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	10/11/2024 04:56	WG2379409
Benzo(b)fluoranthene	U		0.000130	0.00100	1	10/11/2024 04:56	WG2379409
Benzo(k)fluoranthene	U		0.000120	0.00100	1	10/11/2024 04:56	WG2379409
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	10/11/2024 04:56	WG2379409
Benzo(a)pyrene	U		0.0000381	0.000200	1	10/11/2024 04:56	WG2379409
Biphenyl	U		0.000790	0.0100	1	10/11/2024 04:56	WG2379409
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	10/11/2024 04:56	WG2379409
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	10/11/2024 04:56	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	10/11/2024 04:56	WG2379409
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	10/11/2024 04:56	WG2379409
2-Chloronaphthalene	U		0.0000648	0.00100	1	10/11/2024 04:56	WG2379409
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	10/11/2024 04:56	WG2379409
Caprolactam	U		0.000309	0.0100	1	10/11/2024 04:56	WG2379409
Carbazole	U		0.000111	0.0100	1	10/11/2024 04:56	WG2379409
Chrysene	U		0.000130	0.00100	1	10/11/2024 04:56	WG2379409
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	10/11/2024 04:56	WG2379409
Dibenzofuran	U		0.0000970	0.0100	1	10/11/2024 04:56	WG2379409
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	10/11/2024 04:56	WG2379409
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	10/11/2024 04:56	WG2379409
2,6-Dinitrotoluene	U		0.000250	0.0100	1	10/11/2024 04:56	WG2379409
Fluoranthene	U		0.000102	0.00100	1	10/11/2024 04:56	WG2379409
Fluorene	U		0.0000844	0.00100	1	10/11/2024 04:56	WG2379409
Hexachlorobenzene	U		0.0000755	0.00100	1	10/11/2024 04:56	WG2379409
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	10/11/2024 04:56	WG2379409
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	10/11/2024 04:56	WG2379409
Hexachloroethane	U		0.000127	0.0100	1	10/11/2024 04:56	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	10/11/2024 04:56	WG2379409
Isophorone	U		0.000143	0.0100	1	10/11/2024 04:56	WG2379409
1-Methylnaphthalene	U		0.0000790	0.00100	1	10/11/2024 04:56	WG2379409
2-Methylnaphthalene	U		0.000117	0.00100	1	10/11/2024 04:56	WG2379409
Naphthalene	U		0.000159	0.00100	1	10/11/2024 04:56	WG2379409
Nitrobenzene	U		0.000297	0.0100	1	10/11/2024 04:56	WG2379409
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	10/11/2024 04:56	WG2379409
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	10/11/2024 04:56	WG2379409
Phenanthrene	U		0.000112	0.00100	1	10/11/2024 04:56	WG2379409
Benzylbutyl phthalate	U		0.000765	0.00300	1	10/11/2024 04:56	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	10/11/2024 04:56	WG2379409
Di-n-butyl phthalate	U		0.000453	0.00300	1	10/11/2024 04:56	WG2379409
Diethyl phthalate	U		0.000287	0.00300	1	10/11/2024 04:56	WG2379409
Dimethyl phthalate	U		0.000260	0.00300	1	10/11/2024 04:56	WG2379409
Di-n-octyl phthalate	U		0.000932	0.00300	1	10/11/2024 04:56	WG2379409
Pyrene	U		0.000107	0.00100	1	10/11/2024 04:56	WG2379409
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	10/11/2024 04:56	WG2379409
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	10/11/2024 04:56	WG2379409
2-Chlorophenol	U		0.000133	0.0100	1	10/11/2024 04:56	WG2379409
2,4-Dichlorophenol	U		0.000102	0.0100	1	10/11/2024 04:56	WG2379409
2,4-Dimethylphenol	U		0.0000636	0.0100	1	10/11/2024 04:56	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/11/2024 04:56	WG2379409
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/11/2024 04:56	WG2379409
2-Nitrophenol	U		0.000117	0.0100	1	10/11/2024 04:56	WG2379409

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	10/11/2024 04:56	WG2379409
2-Methylphenol	U		0.0000929	0.0100	1	10/11/2024 04:56	WG2379409
3&4-Methyl Phenol	U		0.000168	0.0100	1	10/11/2024 04:56	WG2379409
3-Nitroaniline	U		0.0000869	0.0100	1	10/11/2024 04:56	WG2379409
4-Chloroaniline	U		0.000234	0.0100	1	10/11/2024 04:56	WG2379409
4-Nitroaniline	U		0.0000910	0.0100	1	10/11/2024 04:56	WG2379409
4-Nitrophenol	U		0.000143	0.0100	1	10/11/2024 04:56	WG2379409
Pentachlorophenol	U		0.000313	0.0100	1	10/11/2024 04:56	WG2379409
Phenol	U		0.00433	0.0100	1	10/11/2024 04:56	WG2379409
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	10/11/2024 04:56	WG2379409
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	10/11/2024 04:56	WG2379409
(S) 2-Fluorophenol	*22.6*			*10.0-120*		*10/11/2024 04:56*	WG2379409
(S) Phenol-d5	*18.3*			*10.0-120*		*10/11/2024 04:56*	WG2379409
(S) Nitrobenzene-d5	*47.4*			*10.0-127*		*10/11/2024 04:56*	WG2379409
(S) 2-Fluorobiphenyl	*54.2*			*10.0-130*		*10/11/2024 04:56*	WG2379409
(S) 2,4,6-Tribromophenol	*39.5*			*10.0-155*		*10/11/2024 04:56*	WG2379409
(S) p-Terphenyl-d14	*56.8*			*10.0-128*		*10/11/2024 04:56*	WG2379409

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	491		10.0	1	10/06/2024 14:20	WG2376603

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	90.2		0.547	1.00	1	10/04/2024 22:34	WG2376126
Fluoride	1.07		0.0761	0.150	1	10/04/2024 22:34	WG2376126
Nitrate as (N)	2.74		0.0884	0.100	1	10/04/2024 22:34	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 22:34	WG2376126
Sulfate	83.4		0.637	5.00	1	10/04/2024 22:34	WG2376126

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:16	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron,Dissolved	0.135	J	0.0200	0.200	1	10/23/2024 00:40	WG2378096

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 18:22	WG2378108
Arsenic,Dissolved	0.00503		0.000180	0.00200	1	10/17/2024 18:22	WG2378108
Barium,Dissolved	0.0833		0.000381	0.00200	1	10/17/2024 18:22	WG2378108
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 18:22	WG2378108
Chromium,Dissolved	0.00252		0.00124	0.00200	1	10/17/2024 18:22	WG2378108
Copper,Dissolved	0.00191	J	0.00151	0.00500	1	10/17/2024 18:22	WG2378108
Cobalt,Dissolved	0.0000642	J	0.0000596	0.00200	1	10/17/2024 18:22	WG2378108
Iron,Dissolved	0.0373	J	0.0281	0.100	1	10/17/2024 18:22	WG2378108
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 18:22	WG2378108
Manganese,Dissolved	0.00172	J	0.000704	0.00500	1	10/17/2024 18:22	WG2378108
Molybdenum,Dissolved	0.00249	J	0.000348	0.00500	1	10/17/2024 18:22	WG2378108
Nickel,Dissolved	0.000881	J	0.000816	0.00200	1	10/17/2024 18:22	WG2378108
Selenium,Dissolved	0.00384		0.000300	0.00200	1	10/17/2024 18:22	WG2378108
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 18:22	WG2378108
Uranium,Dissolved	0.00165	J	0.0000700	0.0200	1	10/17/2024 18:22	WG2378108
Zinc,Dissolved	0.00856	J	0.00302	0.0250	1	10/17/2024 18:22	WG2378108

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0821	B J	0.0314	0.100	1	10/11/2024 03:02	WG2380086
(S) a,a,a-Trifluorotoluene(FID)	*86.5*			*78.0-120*		*10/11/2024 03:02*	WG2380086

Received by OCD: 4/15/2025 7:55:48 AM

WW-EAST
Collected date/time: 10/03/24 11:10
L1785334

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 17:43	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 17:43	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 17:43	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 17:43	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 17:43	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 17:43	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 17:43	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 17:43	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 17:43	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 17:43	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 17:43	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 17:43	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 17:43	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 17:43	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 17:43	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 17:43	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 17:43	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 17:43	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 17:43	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 17:43	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 17:43	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 17:43	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 17:43	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 17:43	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 17:43	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 17:43	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 17:43	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 17:43	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 17:43	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 17:43	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 17:43	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 17:43	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 17:43	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 17:43	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 17:43	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 17:43	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 17:43	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 17:43	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 17:43	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 17:43	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 17:43	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 17:43	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 17:43	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 17:43	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 17:43	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 17:43	WG2380457
(S) Toluene-d8	*102*			*80.0-120*		*10/11/2024 17:43*	WG2380457
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*		*10/11/2024 17:43*	WG2380457
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/11/2024 17:43*	WG2380457

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0285	J	0.0247	0.100	1	10/17/2024 20:04	WG2382816
(S) o-Terphenyl	*116*			*52.0-156*		*10/17/2024 20:04*	WG2382816

Released to Imaging: 5/2/2025 9:53:52 AM

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acenaphthene	U		0.0000886	0.00100	1	10/11/2024 05:17	WG2379409
Acenaphthylene	U		0.0000921	0.00100	1	10/11/2024 05:17	WG2379409
Acetophenone	U		0.000208	0.0100	1	10/11/2024 05:17	WG2379409
Anthracene	U		0.0000804	0.00100	1	10/11/2024 05:17	WG2379409
Atrazine	U		0.000255	0.0100	1	10/11/2024 05:17	WG2379409
Benzo(a)anthracene	U		0.000199	0.00100	1	10/11/2024 05:17	WG2379409
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	10/11/2024 05:17	WG2379409
Benzo(b)fluoranthene	U		0.000130	0.00100	1	10/11/2024 05:17	WG2379409
Benzo(k)fluoranthene	U		0.000120	0.00100	1	10/11/2024 05:17	WG2379409
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	10/11/2024 05:17	WG2379409
Benzo(a)pyrene	U		0.0000381	0.000200	1	10/11/2024 05:17	WG2379409
Biphenyl	U		0.000790	0.0100	1	10/11/2024 05:17	WG2379409
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	10/11/2024 05:17	WG2379409
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	10/11/2024 05:17	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	10/11/2024 05:17	WG2379409
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	10/11/2024 05:17	WG2379409
2-Chloronaphthalene	U		0.0000648	0.00100	1	10/11/2024 05:17	WG2379409
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	10/11/2024 05:17	WG2379409
Caprolactam	U		0.000309	0.0100	1	10/11/2024 05:17	WG2379409
Carbazole	U		0.000111	0.0100	1	10/11/2024 05:17	WG2379409
Chrysene	U		0.000130	0.00100	1	10/11/2024 05:17	WG2379409
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	10/11/2024 05:17	WG2379409
Dibenzofuran	U		0.0000970	0.0100	1	10/11/2024 05:17	WG2379409
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	10/11/2024 05:17	WG2379409
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	10/11/2024 05:17	WG2379409
2,6-Dinitrotoluene	U		0.000250	0.0100	1	10/11/2024 05:17	WG2379409
Fluoranthene	U		0.000102	0.00100	1	10/11/2024 05:17	WG2379409
Fluorene	U		0.0000844	0.00100	1	10/11/2024 05:17	WG2379409
Hexachlorobenzene	U		0.0000755	0.00100	1	10/11/2024 05:17	WG2379409
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	10/11/2024 05:17	WG2379409
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	10/11/2024 05:17	WG2379409
Hexachloroethane	U		0.000127	0.0100	1	10/11/2024 05:17	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	10/11/2024 05:17	WG2379409
Isophorone	U		0.000143	0.0100	1	10/11/2024 05:17	WG2379409
1-Methylnaphthalene	U		0.0000790	0.00100	1	10/11/2024 05:17	WG2379409
2-Methylnaphthalene	U		0.000117	0.00100	1	10/11/2024 05:17	WG2379409
Naphthalene	U		0.000159	0.00100	1	10/11/2024 05:17	WG2379409
Nitrobenzene	U		0.000297	0.0100	1	10/11/2024 05:17	WG2379409
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	10/11/2024 05:17	WG2379409
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	10/11/2024 05:17	WG2379409
Phenanthrene	U		0.000112	0.00100	1	10/11/2024 05:17	WG2379409
Benzylbutyl phthalate	U		0.000765	0.00300	1	10/11/2024 05:17	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	10/11/2024 05:17	WG2379409
Di-n-butyl phthalate	U		0.000453	0.00300	1	10/11/2024 05:17	WG2379409
Diethyl phthalate	U		0.000287	0.00300	1	10/11/2024 05:17	WG2379409
Dimethyl phthalate	U		0.000260	0.00300	1	10/11/2024 05:17	WG2379409
Di-n-octyl phthalate	U		0.000932	0.00300	1	10/11/2024 05:17	WG2379409
Pyrene	U		0.000107	0.00100	1	10/11/2024 05:17	WG2379409
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	10/11/2024 05:17	WG2379409
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	10/11/2024 05:17	WG2379409
2-Chlorophenol	U		0.000133	0.0100	1	10/11/2024 05:17	WG2379409
2,4-Dichlorophenol	U		0.000102	0.0100	1	10/11/2024 05:17	WG2379409
2,4-Dimethylphenol	U		0.0000636	0.0100	1	10/11/2024 05:17	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/11/2024 05:17	WG2379409
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/11/2024 05:17	WG2379409
2-Nitrophenol	U		0.000117	0.0100	1	10/11/2024 05:17	WG2379409

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	10/11/2024 05:17	WG2379409
2-Methylphenol	U		0.0000929	0.0100	1	10/11/2024 05:17	WG2379409
3&4-Methyl Phenol	U		0.000168	0.0100	1	10/11/2024 05:17	WG2379409
3-Nitroaniline	U		0.0000869	0.0100	1	10/11/2024 05:17	WG2379409
4-Chloroaniline	U		0.000234	0.0100	1	10/11/2024 05:17	WG2379409
4-Nitroaniline	U		0.0000910	0.0100	1	10/11/2024 05:17	WG2379409
4-Nitrophenol	U		0.000143	0.0100	1	10/11/2024 05:17	WG2379409
Pentachlorophenol	U		0.000313	0.0100	1	10/11/2024 05:17	WG2379409
Phenol	U		0.00433	0.0100	1	10/11/2024 05:17	WG2379409
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	10/11/2024 05:17	WG2379409
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	10/11/2024 05:17	WG2379409
(S) 2-Fluorophenol	*26.4*			*10.0-120*		*10/11/2024 05:17*	WG2379409
(S) Phenol-d5	*20.3*			*10.0-120*		*10/11/2024 05:17*	WG2379409
(S) Nitrobenzene-d5	*51.1*			*10.0-127*		*10/11/2024 05:17*	WG2379409
(S) 2-Fluorobiphenyl	*56.4*			*10.0-130*		*10/11/2024 05:17*	WG2379409
(S) 2,4,6-Tribromophenol	*46.4*			*10.0-155*		*10/11/2024 05:17*	WG2379409
(S) p-Terphenyl-d14	*58.3*			*10.0-128*		*10/11/2024 05:17*	WG2379409

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1110		20.0	1	10/06/2024 14:20	WG2376603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	329		2.74	5.00	5	10/05/2024 03:56	WG2376126
Fluoride	0.830		0.0761	0.150	1	10/04/2024 22:50	WG2376126
Nitrate as (N)	3.04		0.0884	0.100	1	10/04/2024 22:50	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 22:50	WG2376126
Sulfate	88.8		0.637	5.00	1	10/04/2024 22:50	WG2376126

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:24	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.172	J	0.0200	0.200	1	10/23/2024 00:41	WG2378096

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 18:26	WG2378108
Arsenic,Dissolved	0.00463		0.000180	0.00200	1	10/17/2024 18:26	WG2378108
Barium,Dissolved	0.102		0.000381	0.00200	1	10/17/2024 18:26	WG2378108
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 18:26	WG2378108
Chromium,Dissolved	0.00165	J	0.00124	0.00200	1	10/17/2024 18:26	WG2378108
Copper,Dissolved	U		0.00151	0.00500	1	10/17/2024 18:26	WG2378108
Cobalt,Dissolved	U		0.0000596	0.00200	1	10/17/2024 18:26	WG2378108
Iron,Dissolved	0.0317	J	0.0281	0.100	1	10/17/2024 18:26	WG2378108
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 18:26	WG2378108
Manganese,Dissolved	0.00359	J	0.000704	0.00500	1	10/17/2024 18:26	WG2378108
Molybdenum,Dissolved	0.00202	J	0.000348	0.00500	1	10/17/2024 18:26	WG2378108
Nickel,Dissolved	0.00958		0.000816	0.00200	1	10/17/2024 18:26	WG2378108
Selenium,Dissolved	0.00342		0.000300	0.00200	1	10/17/2024 18:26	WG2378108
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 18:26	WG2378108
Uranium,Dissolved	0.00197	J	0.0000700	0.0200	1	10/17/2024 18:26	WG2378108
Zinc,Dissolved	0.0549		0.00302	0.0250	1	10/17/2024 18:26	WG2378108

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0829	B J	0.0314	0.100	1	10/11/2024 03:23	WG2380086
(S) a,a,a-Trifluorotoluene(FID)	*86.4*			*78.0-120*		*10/11/2024 03:23*	WG2380086

Received by OCD: 4/15/2025 7:55:48 AM

DUP-01
Collected date/time: 10/03/24 10:00
L1785334

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 18:03	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 18:03	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 18:03	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 18:03	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 18:03	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 18:03	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 18:03	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 18:03	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 18:03	WG2380457
Carbon tetrachloride	0.000367	J	0.000128	0.00100	1	10/11/2024 18:03	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 18:03	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 18:03	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 18:03	WG2380457
Chloroform	0.000901	J	0.000111	0.00500	1	10/11/2024 18:03	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 18:03	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 18:03	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 18:03	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 18:03	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 18:03	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 18:03	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 18:03	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 18:03	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 18:03	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 18:03	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 18:03	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 18:03	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 18:03	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 18:03	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 18:03	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 18:03	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 18:03	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 18:03	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 18:03	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 18:03	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 18:03	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 18:03	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 18:03	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 18:03	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 18:03	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 18:03	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 18:03	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 18:03	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 18:03	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 18:03	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 18:03	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 18:03	WG2380457
(S) Toluene-d8	*102*			*80.0-120*		*10/11/2024 18:03*	WG2380457
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*10/11/2024 18:03*	WG2380457
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/11/2024 18:03*	WG2380457

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0539	J	0.0247	0.100	1	10/17/2024 20:24	WG2382816
(S) o-Terphenyl	*106*			*52.0-156*		*10/17/2024 20:24*	WG2382816

Released to Imaging: 5/2/2025 9:53:52 AM

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	10/11/2024 05:39	WG2379409
Acenaphthylene	U		0.0000921	0.00100	1	10/11/2024 05:39	WG2379409
Acetophenone	U		0.000208	0.0100	1	10/11/2024 05:39	WG2379409
Anthracene	U		0.0000804	0.00100	1	10/11/2024 05:39	WG2379409
Atrazine	U		0.000255	0.0100	1	10/11/2024 05:39	WG2379409
Benzo(a)anthracene	U		0.000199	0.00100	1	10/11/2024 05:39	WG2379409
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	10/11/2024 05:39	WG2379409
Benzo(b)fluoranthene	U		0.000130	0.00100	1	10/11/2024 05:39	WG2379409
Benzo(k)fluoranthene	U		0.000120	0.00100	1	10/11/2024 05:39	WG2379409
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	10/11/2024 05:39	WG2379409
Benzo(a)pyrene	U		0.0000381	0.000200	1	10/11/2024 05:39	WG2379409
Biphenyl	U		0.000790	0.0100	1	10/11/2024 05:39	WG2379409
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	10/11/2024 05:39	WG2379409
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	10/11/2024 05:39	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	10/11/2024 05:39	WG2379409
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	10/11/2024 05:39	WG2379409
2-Chloronaphthalene	U		0.0000648	0.00100	1	10/11/2024 05:39	WG2379409
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	10/11/2024 05:39	WG2379409
Caprolactam	U		0.000309	0.0100	1	10/11/2024 05:39	WG2379409
Carbazole	U		0.000111	0.0100	1	10/11/2024 05:39	WG2379409
Chrysene	U		0.000130	0.00100	1	10/11/2024 05:39	WG2379409
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	10/11/2024 05:39	WG2379409
Dibenzofuran	U		0.0000970	0.0100	1	10/11/2024 05:39	WG2379409
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	10/11/2024 05:39	WG2379409
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	10/11/2024 05:39	WG2379409
2,6-Dinitrotoluene	U		0.000250	0.0100	1	10/11/2024 05:39	WG2379409
Fluoranthene	U		0.000102	0.00100	1	10/11/2024 05:39	WG2379409
Fluorene	U		0.0000844	0.00100	1	10/11/2024 05:39	WG2379409
Hexachlorobenzene	U		0.0000755	0.00100	1	10/11/2024 05:39	WG2379409
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	10/11/2024 05:39	WG2379409
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	10/11/2024 05:39	WG2379409
Hexachloroethane	U		0.000127	0.0100	1	10/11/2024 05:39	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	10/11/2024 05:39	WG2379409
Isophorone	U		0.000143	0.0100	1	10/11/2024 05:39	WG2379409
1-Methylnaphthalene	U		0.0000790	0.00100	1	10/11/2024 05:39	WG2379409
2-Methylnaphthalene	U		0.000117	0.00100	1	10/11/2024 05:39	WG2379409
Naphthalene	U		0.000159	0.00100	1	10/11/2024 05:39	WG2379409
Nitrobenzene	U		0.000297	0.0100	1	10/11/2024 05:39	WG2379409
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	10/11/2024 05:39	WG2379409
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	10/11/2024 05:39	WG2379409
Phenanthrene	U		0.000112	0.00100	1	10/11/2024 05:39	WG2379409
Benzylbutyl phthalate	U		0.000765	0.00300	1	10/11/2024 05:39	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	10/11/2024 05:39	WG2379409
Di-n-butyl phthalate	U		0.000453	0.00300	1	10/11/2024 05:39	WG2379409
Diethyl phthalate	U		0.000287	0.00300	1	10/11/2024 05:39	WG2379409
Dimethyl phthalate	U		0.000260	0.00300	1	10/11/2024 05:39	WG2379409
Di-n-octyl phthalate	U		0.000932	0.00300	1	10/11/2024 05:39	WG2379409
Pyrene	U		0.000107	0.00100	1	10/11/2024 05:39	WG2379409
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	10/11/2024 05:39	WG2379409
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	10/11/2024 05:39	WG2379409
2-Chlorophenol	U		0.000133	0.0100	1	10/11/2024 05:39	WG2379409
2,4-Dichlorophenol	U		0.000102	0.0100	1	10/11/2024 05:39	WG2379409
2,4-Dimethylphenol	U		0.0000636	0.0100	1	10/11/2024 05:39	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/11/2024 05:39	WG2379409
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/11/2024 05:39	WG2379409
2-Nitrophenol	U		0.000117	0.0100	1	10/11/2024 05:39	WG2379409

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

DUP-01
Collected date/time: 10/03/24 10:00
L1785334

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000102	0.0100	1	10/11/2024 05:39	WG2379409
2-Methylphenol	U		0.0000929	0.0100	1	10/11/2024 05:39	WG2379409
3&4-Methyl Phenol	U		0.000168	0.0100	1	10/11/2024 05:39	WG2379409
3-Nitroaniline	U		0.0000869	0.0100	1	10/11/2024 05:39	WG2379409
4-Chloroaniline	U		0.000234	0.0100	1	10/11/2024 05:39	WG2379409
4-Nitroaniline	U		0.0000910	0.0100	1	10/11/2024 05:39	WG2379409
4-Nitrophenol	U		0.000143	0.0100	1	10/11/2024 05:39	WG2379409
Pentachlorophenol	U		0.000313	0.0100	1	10/11/2024 05:39	WG2379409
Phenol	U		0.00433	0.0100	1	10/11/2024 05:39	WG2379409
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	10/11/2024 05:39	WG2379409
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	10/11/2024 05:39	WG2379409
(S) 2-Fluorophenol	*37.3*			*10.0-120*		*10/11/2024 05:39*	WG2379409
(S) Phenol-d5	*21.9*			*10.0-120*		*10/11/2024 05:39*	WG2379409
(S) Nitrobenzene-d5	*50.9*			*10.0-127*		*10/11/2024 05:39*	WG2379409
(S) 2-Fluorobiphenyl	*57.6*			*10.0-130*		*10/11/2024 05:39*	WG2379409
(S) 2,4,6-Tribromophenol	*58.5*			*10.0-155*		*10/11/2024 05:39*	WG2379409
(S) p-Terphenyl-d14	*60.0*			*10.0-128*		*10/11/2024 05:39*	WG2379409

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	314		10.0	1	10/06/2024 14:20	WG2376603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.38		0.547	1.00	1	10/04/2024 23:07	WG2376126
Fluoride	0.544		0.0761	0.150	1	10/04/2024 23:07	WG2376126
Nitrate as (N)	U		0.0884	0.100	1	10/04/2024 23:07	WG2376126
Nitrite as (N)	U		0.0794	0.100	1	10/04/2024 23:07	WG2376126
Sulfate	29.0		0.637	5.00	1	10/04/2024 23:07	WG2376126

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000700	0.000200	1	10/09/2024 23:26	WG2376293

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron,Dissolved	0.0319	J	0.0200	0.200	1	10/23/2024 00:43	WG2378096

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aluminum,Dissolved	U		0.0185	0.100	1	10/17/2024 18:35	WG2378108
Arsenic,Dissolved	0.0119		0.000180	0.00200	1	10/17/2024 18:35	WG2378108
Barium,Dissolved	0.130		0.000381	0.00200	1	10/17/2024 18:35	WG2378108
Cadmium,Dissolved	U		0.000150	0.00100	1	10/17/2024 18:35	WG2378108
Chromium,Dissolved	U		0.00124	0.00200	1	10/17/2024 18:35	WG2378108
Copper,Dissolved	0.00182	J	0.00151	0.00500	1	10/17/2024 18:35	WG2378108
Cobalt,Dissolved	0.00103	J	0.0000596	0.00200	1	10/17/2024 18:35	WG2378108
Iron,Dissolved	0.0449	J	0.0281	0.100	1	10/17/2024 18:35	WG2378108
Lead,Dissolved	U		0.000849	0.00200	1	10/17/2024 18:35	WG2378108
Manganese,Dissolved	0.0870		0.000704	0.00500	1	10/17/2024 18:35	WG2378108
Molybdenum,Dissolved	0.00318	J	0.000348	0.00500	1	10/17/2024 18:35	WG2378108
Nickel,Dissolved	0.00279		0.000816	0.00200	1	10/17/2024 18:35	WG2378108
Selenium,Dissolved	0.000326	J	0.000300	0.00200	1	10/17/2024 18:35	WG2378108
Silver,Dissolved	U		0.0000700	0.00200	1	10/17/2024 18:35	WG2378108
Uranium,Dissolved	0.00133	J	0.0000700	0.0200	1	10/17/2024 18:35	WG2378108
Zinc,Dissolved	0.0120	J	0.00302	0.0250	1	10/17/2024 18:35	WG2378108

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0807	B J	0.0314	0.100	1	10/11/2024 03:44	WG2380086
(S) a,a,a-Trifluorotoluene(FID)	*86.7*			*78.0-120*		*10/11/2024 03:44*	WG2380086

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 18:22	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 18:22	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 18:22	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 18:22	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 18:22	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 18:22	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 18:22	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 18:22	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 18:22	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 18:22	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 18:22	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 18:22	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 18:22	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 18:22	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 18:22	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 18:22	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 18:22	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 18:22	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 18:22	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 18:22	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 18:22	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 18:22	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 18:22	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 18:22	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 18:22	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 18:22	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 18:22	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 18:22	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 18:22	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 18:22	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 18:22	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 18:22	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 18:22	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 18:22	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 18:22	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 18:22	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 18:22	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 18:22	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 18:22	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 18:22	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 18:22	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 18:22	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 18:22	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 18:22	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 18:22	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 18:22	WG2380457
(S) Toluene-d8	*103*			*80.0-120*		*10/11/2024 18:22*	WG2380457
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*10/11/2024 18:22*	WG2380457
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*10/11/2024 18:22*	WG2380457

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.881		0.0247	0.100	1	10/17/2024 20:44	WG2382816
(S) o-Terphenyl	*93.7*			*52.0-156*		*10/17/2024 20:44*	WG2382816

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000886	0.00100	1	10/20/2024 04:36	WG2379409
Acenaphthylene	U		0.0000921	0.00100	1	10/20/2024 04:36	WG2379409
Acetophenone	U		0.000208	0.0100	1	10/20/2024 04:36	WG2379409
Anthracene	U		0.0000804	0.00100	1	10/20/2024 04:36	WG2379409
Atrazine	U		0.000255	0.0100	1	10/20/2024 04:36	WG2379409
Benzo(a)anthracene	U		0.000199	0.00100	1	10/20/2024 04:36	WG2379409
Benzaldehyde	U	C6 J4	0.00169	0.0100	1	10/20/2024 04:36	WG2379409
Benzo(b)fluoranthene	U		0.000130	0.00100	1	10/20/2024 04:36	WG2379409
Benzo(k)fluoranthene	U		0.000120	0.00100	1	10/20/2024 04:36	WG2379409
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	10/20/2024 04:36	WG2379409
Benzo(a)pyrene	U		0.0000381	0.000200	1	10/20/2024 04:36	WG2379409
Biphenyl	U		0.000790	0.0100	1	10/20/2024 04:36	WG2379409
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	10/20/2024 04:36	WG2379409
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	10/20/2024 04:36	WG2379409
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	10/20/2024 04:36	WG2379409
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	10/20/2024 04:36	WG2379409
2-Chloronaphthalene	U		0.0000648	0.00100	1	10/20/2024 04:36	WG2379409
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	10/20/2024 04:36	WG2379409
Caprolactam	U		0.000309	0.0100	1	10/20/2024 04:36	WG2379409
Carbazole	U		0.000111	0.0100	1	10/20/2024 04:36	WG2379409
Chrysene	U		0.000130	0.00100	1	10/20/2024 04:36	WG2379409
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	10/20/2024 04:36	WG2379409
Dibenzofuran	U		0.0000970	0.0100	1	10/20/2024 04:36	WG2379409
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	10/20/2024 04:36	WG2379409
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	10/20/2024 04:36	WG2379409
2,6-Dinitrotoluene	U		0.000250	0.0100	1	10/20/2024 04:36	WG2379409
Fluoranthene	U		0.000102	0.00100	1	10/20/2024 04:36	WG2379409
Fluorene	U		0.0000844	0.00100	1	10/20/2024 04:36	WG2379409
Hexachlorobenzene	U		0.0000755	0.00100	1	10/20/2024 04:36	WG2379409
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	10/20/2024 04:36	WG2379409
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	10/20/2024 04:36	WG2379409
Hexachloroethane	U		0.000127	0.0100	1	10/20/2024 04:36	WG2379409
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	10/20/2024 04:36	WG2379409
Isophorone	U		0.000143	0.0100	1	10/20/2024 04:36	WG2379409
1-Methylnaphthalene	U		0.0000790	0.00100	1	10/20/2024 04:36	WG2379409
2-Methylnaphthalene	U		0.000117	0.00100	1	10/20/2024 04:36	WG2379409
Naphthalene	U		0.000159	0.00100	1	10/20/2024 04:36	WG2379409
Nitrobenzene	U		0.000297	0.0100	1	10/20/2024 04:36	WG2379409
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	10/20/2024 04:36	WG2379409
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	10/20/2024 04:36	WG2379409
Phenanthrene	U		0.000112	0.00100	1	10/20/2024 04:36	WG2379409
Benzylbutyl phthalate	U		0.000765	0.00300	1	10/20/2024 04:36	WG2379409
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300	1	10/20/2024 04:36	WG2379409
Di-n-butyl phthalate	U		0.000453	0.00300	1	10/20/2024 04:36	WG2379409
Diethyl phthalate	U		0.000287	0.00300	1	10/20/2024 04:36	WG2379409
Dimethyl phthalate	U		0.000260	0.00300	1	10/20/2024 04:36	WG2379409
Di-n-octyl phthalate	U		0.000932	0.00300	1	10/20/2024 04:36	WG2379409
Pyrene	U		0.000107	0.00100	1	10/20/2024 04:36	WG2379409
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	10/20/2024 04:36	WG2379409
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	10/20/2024 04:36	WG2379409
2-Chlorophenol	U		0.000133	0.0100	1	10/20/2024 04:36	WG2379409
2,4-Dichlorophenol	U		0.000102	0.0100	1	10/20/2024 04:36	WG2379409
2,4-Dimethylphenol	U		0.0000636	0.0100	1	10/20/2024 04:36	WG2379409
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/20/2024 04:36	WG2379409
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/20/2024 04:36	WG2379409
2-Nitrophenol	U		0.000117	0.0100	1	10/20/2024 04:36	WG2379409

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	U		0.000102	0.0100	1	10/20/2024 04:36	WG2379409
2-Methylphenol	U		0.0000929	0.0100	1	10/20/2024 04:36	WG2379409
3&4-Methyl Phenol	U		0.000168	0.0100	1	10/20/2024 04:36	WG2379409
3-Nitroaniline	U		0.0000869	0.0100	1	10/20/2024 04:36	WG2379409
4-Chloroaniline	U		0.000234	0.0100	1	10/20/2024 04:36	WG2379409
4-Nitroaniline	U		0.0000910	0.0100	1	10/20/2024 04:36	WG2379409
4-Nitrophenol	U		0.000143	0.0100	1	10/20/2024 04:36	WG2379409
Pentachlorophenol	U		0.000313	0.0100	1	10/20/2024 04:36	WG2379409
Phenol	U		0.00433	0.0100	1	10/20/2024 04:36	WG2379409
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	10/20/2024 04:36	WG2379409
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	10/20/2024 04:36	WG2379409
(S) 2-Fluorophenol	*17.7*			*10.0-120*		*10/20/2024 04:36*	WG2379409
(S) Phenol-d5	*20.7*			*10.0-120*		*10/20/2024 04:36*	WG2379409
(S) Nitrobenzene-d5	*60.3*			*10.0-127*		*10/20/2024 04:36*	WG2379409
(S) 2-Fluorobiphenyl	*61.5*			*10.0-130*		*10/20/2024 04:36*	WG2379409
(S) 2,4,6-Tribromophenol	*31.1*			*10.0-155*		*10/20/2024 04:36*	WG2379409
(S) p-Terphenyl-d14	*59.4*			*10.0-128*		*10/20/2024 04:36*	WG2379409

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 13:48	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 13:48	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 13:48	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 13:48	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 13:48	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 13:48	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 13:48	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 13:48	WG2380457
Carbon disulfide	0.000119	J	0.0000962	0.00100	1	10/11/2024 13:48	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 13:48	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 13:48	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 13:48	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 13:48	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 13:48	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 13:48	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 13:48	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 13:48	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 13:48	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 13:48	WG2380457
cis-1,2-Dichloroethene	0.000730	J	0.000126	0.00100	1	10/11/2024 13:48	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 13:48	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 13:48	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 13:48	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 13:48	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 13:48	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 13:48	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 13:48	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 13:48	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 13:48	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 13:48	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 13:48	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 13:48	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 13:48	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 13:48	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 13:48	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 13:48	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 13:48	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 13:48	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 13:48	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 13:48	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 13:48	WG2380457
Trichloroethene	0.000433	J	0.000190	0.00100	1	10/11/2024 13:48	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 13:48	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 13:48	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 13:48	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 13:48	WG2380457
(S) Toluene-d8	*101*			*80.0-120*		*10/11/2024 13:48*	WG2380457
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/11/2024 13:48*	WG2380457
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/11/2024 13:48*	WG2380457

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0000904	0.00102	1.02	10/13/2024 10:20	WG2379410
Acenaphthylene	U		0.0000939	0.00102	1.02	10/13/2024 10:20	WG2379410
Acetophenone	U		0.000212	0.0102	1.02	10/13/2024 10:20	WG2379410
Anthracene	U		0.0000820	0.00102	1.02	10/13/2024 10:20	WG2379410
Atrazine	U		0.000260	0.0102	1.02	10/13/2024 10:20	WG2379410
Benzo(a)anthracene	U		0.000203	0.00102	1.02	10/13/2024 10:20	WG2379410
Benzaldehyde	U	J4	0.00172	0.0102	1.02	10/13/2024 10:20	WG2379410
Benzo(b)fluoranthene	U		0.000133	0.00102	1.02	10/13/2024 10:20	WG2379410
Benzo(k)fluoranthene	U		0.000122	0.00102	1.02	10/13/2024 10:20	WG2379410
Benzo(g,h,i)perylene	U		0.000123	0.00102	1.02	10/13/2024 10:20	WG2379410
Benzo(a)pyrene	U		0.0000389	0.000204	1.02	10/13/2024 10:20	WG2379410
Biphenyl	U		0.000806	0.0102	1.02	10/13/2024 10:20	WG2379410
Bis(2-chlorethoxy)methane	U		0.000118	0.0102	1.02	10/13/2024 10:20	WG2379410
Bis(2-chloroethyl)ether	U		0.000140	0.0102	1.02	10/13/2024 10:20	WG2379410
2,2-Oxybis(1-Chloropropane)	U		0.000214	0.0102	1.02	10/13/2024 10:20	WG2379410
4-Bromophenyl-phenylether	U		0.0000895	0.0102	1.02	10/13/2024 10:20	WG2379410
2-Chloronaphthalene	U		0.0000661	0.00102	1.02	10/13/2024 10:20	WG2379410
4-Chlorophenyl-phenylether	U		0.0000945	0.0102	1.02	10/13/2024 10:20	WG2379410
Caprolactam	U		0.000315	0.0102	1.02	10/13/2024 10:20	WG2379410
Carbazole	U		0.000113	0.0102	1.02	10/13/2024 10:20	WG2379410
Chrysene	U		0.000133	0.00102	1.02	10/13/2024 10:20	WG2379410
Dibenz(a,h)anthracene	U		0.0000657	0.000204	1.02	10/13/2024 10:20	WG2379410
Dibenzofuran	U		0.0000989	0.0102	1.02	10/13/2024 10:20	WG2379410
3,3-Dichlorobenzidine	U		0.000216	0.0102	1.02	10/13/2024 10:20	WG2379410
2,4-Dinitrotoluene	U		0.000100	0.0102	1.02	10/13/2024 10:20	WG2379410
2,6-Dinitrotoluene	U		0.000255	0.0102	1.02	10/13/2024 10:20	WG2379410
Fluoranthene	0.000115	J	0.000104	0.00102	1.02	10/13/2024 10:20	WG2379410
Fluorene	U		0.0000861	0.00102	1.02	10/13/2024 10:20	WG2379410
Hexachlorobenzene	U		0.0000770	0.00102	1.02	10/13/2024 10:20	WG2379410
Hexachloro-1,3-butadiene	U		0.0000987	0.0102	1.02	10/13/2024 10:20	WG2379410
Hexachlorocyclopentadiene	U		0.0000610	0.0102	1.02	10/13/2024 10:20	WG2379410
Hexachloroethane	U		0.000130	0.0102	1.02	10/13/2024 10:20	WG2379410
Indeno(1,2,3-cd)pyrene	U		0.000285	0.00102	1.02	10/13/2024 10:20	WG2379410
Isophorone	U		0.000146	0.0102	1.02	10/13/2024 10:20	WG2379410
1-Methylnaphthalene	U		0.0000806	0.00102	1.02	10/13/2024 10:20	WG2379410
2-Methylnaphthalene	U		0.000119	0.00102	1.02	10/13/2024 10:20	WG2379410
Naphthalene	U		0.000162	0.00102	1.02	10/13/2024 10:20	WG2379410
Nitrobenzene	U		0.000303	0.0102	1.02	10/13/2024 10:20	WG2379410
n-Nitrosodiphenylamine	U		0.00242	0.0102	1.02	10/13/2024 10:20	WG2379410
n-Nitrosodi-n-propylamine	U		0.000266	0.0102	1.02	10/13/2024 10:20	WG2379410
Phenanthrene	U		0.000114	0.00102	1.02	10/13/2024 10:20	WG2379410
Benzylbutyl phthalate	U		0.000780	0.00306	1.02	10/13/2024 10:20	WG2379410
Bis(2-ethylhexyl)phthalate	U		0.000913	0.00306	1.02	10/13/2024 10:20	WG2379410
Di-n-butyl phthalate	U		0.000462	0.00306	1.02	10/13/2024 10:20	WG2379410
Diethyl phthalate	U		0.000293	0.00306	1.02	10/13/2024 10:20	WG2379410
Dimethyl phthalate	U		0.000265	0.00306	1.02	10/13/2024 10:20	WG2379410
Di-n-octyl phthalate	U		0.000951	0.00306	1.02	10/13/2024 10:20	WG2379410
Pyrene	U		0.000109	0.00102	1.02	10/13/2024 10:20	WG2379410
1,2,4-Trichlorobenzene	U		0.0000712	0.0102	1.02	10/13/2024 10:20	WG2379410
4-Chloro-3-methylphenol	U		0.000134	0.0102	1.02	10/13/2024 10:20	WG2379410
2-Chlorophenol	U		0.000136	0.0102	1.02	10/13/2024 10:20	WG2379410
2,4-Dichlorophenol	U		0.000104	0.0102	1.02	10/13/2024 10:20	WG2379410
2,4-Dimethylphenol	U		0.0000649	0.0102	1.02	10/13/2024 10:20	WG2379410
4,6-Dinitro-2-methylphenol	U		0.00114	0.0102	1.02	10/13/2024 10:20	WG2379410
2,4-Dinitrophenol	U		0.00605	0.0102	1.02	10/13/2024 10:20	WG2379410
2-Nitrophenol	U		0.000119	0.0102	1.02	10/13/2024 10:20	WG2379410

LB-01
Collected date/time: 10/03/24 11:20
L1785334

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000104	0.0102	1.02	10/13/2024 10:20	WG2379410
2-Methylphenol	U		0.0000948	0.0102	1.02	10/13/2024 10:20	WG2379410
3&4-Methyl Phenol	U		0.000171	0.0102	1.02	10/13/2024 10:20	WG2379410
3-Nitroaniline	U		0.0000886	0.0102	1.02	10/13/2024 10:20	WG2379410
4-Chloroaniline	U		0.000239	0.0102	1.02	10/13/2024 10:20	WG2379410
4-Nitroaniline	U		0.0000928	0.0102	1.02	10/13/2024 10:20	WG2379410
4-Nitrophenol	U		0.000146	0.0102	1.02	10/13/2024 10:20	WG2379410
Pentachlorophenol	U		0.000319	0.0102	1.02	10/13/2024 10:20	WG2379410
Phenol	U		0.00442	0.0102	1.02	10/13/2024 10:20	WG2379410
2,4,5-Trichlorophenol	U		0.000111	0.0102	1.02	10/13/2024 10:20	WG2379410
2,4,6-Trichlorophenol	U		0.000102	0.0102	1.02	10/13/2024 10:20	WG2379410
(S) 2-Fluorophenol	*39.8*			*10.0-120*		*10/13/2024 10:20*	WG2379410
(S) Phenol-d5	*25.6*			*10.0-120*		*10/13/2024 10:20*	WG2379410
(S) Nitrobenzene-d5	*57.9*			*10.0-127*		*10/13/2024 10:20*	WG2379410
(S) 2-Fluorobiphenyl	*65.3*			*10.0-130*		*10/13/2024 10:20*	WG2379410
(S) 2,4,6-Tribromophenol	*70.1*			*10.0-155*		*10/13/2024 10:20*	WG2379410
(S) p-Terphenyl-d14	*75.3*			*10.0-128*		*10/13/2024 10:20*	WG2379410

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

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 14:07	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 14:07	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 14:07	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 14:07	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 14:07	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 14:07	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 14:07	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 14:07	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 14:07	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 14:07	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 14:07	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 14:07	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 14:07	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 14:07	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 14:07	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 14:07	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 14:07	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 14:07	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 14:07	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 14:07	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 14:07	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 14:07	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 14:07	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 14:07	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 14:07	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 14:07	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 14:07	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 14:07	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 14:07	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 14:07	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 14:07	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 14:07	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 14:07	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 14:07	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 14:07	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 14:07	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 14:07	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 14:07	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 14:07	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 14:07	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 14:07	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 14:07	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 14:07	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 14:07	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 14:07	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 14:07	WG2380457
(S) Toluene-d8	*103*			*80.0-120*		*10/11/2024 14:07*	WG2380457
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/11/2024 14:07*	WG2380457
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/11/2024 14:07*	WG2380457

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	10/11/2024 14:27	WG2380457
Benzene	U		0.0000941	0.00100	1	10/11/2024 14:27	WG2380457
Bromodichloromethane	U		0.000136	0.00100	1	10/11/2024 14:27	WG2380457
Bromoform	U		0.000129	0.00100	1	10/11/2024 14:27	WG2380457
Bromomethane	U		0.000605	0.00500	1	10/11/2024 14:27	WG2380457
n-Butylbenzene	U		0.000157	0.00100	1	10/11/2024 14:27	WG2380457
sec-Butylbenzene	U		0.000125	0.00100	1	10/11/2024 14:27	WG2380457
tert-Butylbenzene	U		0.000127	0.00100	1	10/11/2024 14:27	WG2380457
Carbon disulfide	U		0.0000962	0.00100	1	10/11/2024 14:27	WG2380457
Carbon tetrachloride	U		0.000128	0.00100	1	10/11/2024 14:27	WG2380457
Chlorobenzene	U		0.000116	0.00100	1	10/11/2024 14:27	WG2380457
Chlorodibromomethane	U		0.000140	0.00100	1	10/11/2024 14:27	WG2380457
Chloroethane	U		0.000192	0.00500	1	10/11/2024 14:27	WG2380457
Chloroform	U		0.000111	0.00500	1	10/11/2024 14:27	WG2380457
Chloromethane	U		0.000960	0.00250	1	10/11/2024 14:27	WG2380457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/11/2024 14:27	WG2380457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/11/2024 14:27	WG2380457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/11/2024 14:27	WG2380457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/11/2024 14:27	WG2380457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/11/2024 14:27	WG2380457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/11/2024 14:27	WG2380457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/11/2024 14:27	WG2380457
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/11/2024 14:27	WG2380457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/11/2024 14:27	WG2380457
Ethylbenzene	U		0.000137	0.00100	1	10/11/2024 14:27	WG2380457
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/11/2024 14:27	WG2380457
2-Hexanone	U		0.000787	0.0100	1	10/11/2024 14:27	WG2380457
Isopropylbenzene	U		0.000105	0.00100	1	10/11/2024 14:27	WG2380457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/11/2024 14:27	WG2380457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/11/2024 14:27	WG2380457
Methylene Chloride	U		0.000430	0.00500	1	10/11/2024 14:27	WG2380457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/11/2024 14:27	WG2380457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/11/2024 14:27	WG2380457
Naphthalene	U		0.00100	0.00500	1	10/11/2024 14:27	WG2380457
n-Propylbenzene	U		0.0000993	0.00100	1	10/11/2024 14:27	WG2380457
Styrene	U		0.000118	0.00100	1	10/11/2024 14:27	WG2380457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/11/2024 14:27	WG2380457
Tetrachloroethene	U		0.000300	0.00100	1	10/11/2024 14:27	WG2380457
Toluene	U		0.000278	0.00100	1	10/11/2024 14:27	WG2380457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/11/2024 14:27	WG2380457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/11/2024 14:27	WG2380457
Trichloroethene	U		0.000190	0.00100	1	10/11/2024 14:27	WG2380457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/11/2024 14:27	WG2380457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/11/2024 14:27	WG2380457
Vinyl chloride	U		0.000234	0.00100	1	10/11/2024 14:27	WG2380457
Xylenes, Total	U		0.000174	0.00300	1	10/11/2024 14:27	WG2380457
(S) Toluene-d8	*104*			*80.0-120*		*10/11/2024 14:27*	WG2380457
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*10/11/2024 14:27*	WG2380457
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/11/2024 14:27*	WG2380457

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4130393-1 10/06/24 12:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1782959-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1782959-01 10/06/24 12:11 • (DUP) R4130393-3 10/06/24 12:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	940	920	1	2.15		10

L1785409-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1785409-13 10/06/24 12:11 • (DUP) R4130393-4 10/06/24 12:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	137	137	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4130393-2 10/06/24 12:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8810	100	85.0-115	

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4130385-1 10/07/24 09:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1784231-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1784231-35 10/07/24 09:26 • (DUP) R4130385-3 10/07/24 09:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	263	270	1	2.63		10

L1785334-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1785334-09 10/07/24 09:26 • (DUP) R4130385-4 10/07/24 09:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1230	1220	1	1.31		10

Laboratory Control Sample (LCS)

(LCS) R4130385-2 10/07/24 09:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8720	99.1	85.0-115	

Method Blank (MB)

(MB) R4130416-1 10/06/24 14:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1785172-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1785172-01 10/06/24 14:20 • (DUP) R4130416-3 10/06/24 14:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	431	427	1	0.932		10

L1785528-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1785528-03 10/06/24 14:20 • (DUP) R4130416-4 10/06/24 14:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	5620	5540	1	1.43		10

Laboratory Control Sample (LCS)

(LCS) R4130416-2 10/06/24 14:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8850	101	85.0-115	

Method Blank (MB)

(MB) R4131190-1 10/04/24 19:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Nitrate as (N)	U		0.0884	0.100
Nitrite as (N)	U		0.0794	0.100
Sulfate	U		0.637	5.00

L1785304-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1785304-02 10/04/24 20:03 • (DUP) R4131190-3 10/04/24 20:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	137	137	1	0.0352		15
Fluoride	0.0818	0.0855	1	4.42	J	15
Nitrate as (N)	0.187	0.185	1	0.914		15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	10.7	10.7	1	0.460		15

L1785310-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1785310-06 10/04/24 23:54 • (DUP) R4131190-6 10/05/24 00:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.73	6.70	1	0.512		15
Fluoride	0.274	0.266	1	2.97		15
Nitrate as (N)	U	U	1	0.000		15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	16.4	16.4	1	0.0932		15

Laboratory Control Sample (LCS)

(LCS) R4131190-2 10/04/24 19:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.0	97.4	80.0-120	
Fluoride	8.00	7.79	97.3	80.0-120	
Nitrate as (N)	8.00	8.16	102	80.0-120	
Nitrite as (N)	8.00	8.20	103	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4131190-2 10/04/24 19:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	43.4	108	80.0-120	

L1785304-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785304-02 10/04/24 20:03 • (MS) R4131190-4 10/04/24 20:24 • (MSD) R4131190-5 10/04/24 22:16

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 %
Chloride	40.0	137	149	148	28.9	28.1	1	80.0-120	J6	J6	0.229	15
Fluoride	8.00	0.0818	7.49	7.44	92.6	91.9	1	80.0-120			0.725	15
Nitrate as (N)	8.00	0.187	8.05	8.01	98.3	97.8	1	80.0-120			0.494	15
Nitrite as (N)	8.00	U	7.93	7.90	99.1	98.7	1	80.0-120			0.418	15
Sulfate	40.0	10.7	51.4	51.3	102	101	1	80.0-120			0.168	15

L1785310-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785310-06 10/04/24 23:54 • (MS) R4131190-7 10/05/24 00:16 • (MSD) R4131190-8 10/05/24 00:27

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 %
Chloride	40.0	6.73	43.7	44.0	92.4	93.1	1	80.0-120			0.575	15
Fluoride	8.00	0.274	7.61	7.72	91.7	93.0	1	80.0-120			1.39	15
Nitrate as (N)	8.00	U	7.83	7.87	97.9	98.3	1	80.0-120			0.413	15
Nitrite as (N)	8.00	U	7.94	8.00	99.3	100	1	80.0-120			0.785	15
Sulfate	40.0	16.4	55.9	56.0	98.7	98.9	1	80.0-120			0.149	15

Method Blank (MB)

(MB) R4130914-1 10/04/24 20:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Nitrate as (N)	U		0.0884	0.100
Nitrite as (N)	U		0.0794	0.100
Sulfate	U		0.637	5.00

L1785420-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1785420-06 10/04/24 23:24 • (DUP) R4130914-3 10/04/24 23:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	34.0	34.0	1	0.181		15
Fluoride	U	U	1	0.000		15
Nitrate as (N)	U	U	1	0.000		15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	1.14	1.10	1	3.54	J	15

L1785420-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1785420-08 10/05/24 01:23 • (DUP) R4130914-6 10/05/24 01:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.74	1.73	1	1.07		15
Fluoride	U	U	1	0.000		15
Nitrate as (N)	0.498	0.497	1	0.261		15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	2.20	2.19	1	0.698	J	15

Laboratory Control Sample (LCS)

(LCS) R4130914-2 10/04/24 20:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.9	99.7	80.0-120	
Fluoride	8.00	8.24	103	80.0-120	
Nitrate as (N)	8.00	8.21	103	80.0-120	
Nitrite as (N)	8.00	8.28	103	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4130914-2 10/04/24 20:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	41.2	103	80.0-120	

L1785420-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785420-06 10/04/24 23:24 • (MS) R4130914-4 10/04/24 23:58 • (MSD) R4130914-5 10/05/24 00:15

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 %
Chloride	40.0	34.0	66.7	67.0	81.8	82.5	1	80.0-120			0.455	15
Fluoride	8.00	U	8.22	8.27	103	103	1	80.0-120			0.555	15
Nitrate as (N)	8.00	U	8.05	8.07	101	101	1	80.0-120			0.256	15
Nitrite as (N)	8.00	U	8.10	8.15	101	102	1	80.0-120			0.561	15
Sulfate	40.0	1.14	41.9	41.9	102	102	1	80.0-120			0.171	15

L1785420-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785420-08 10/05/24 01:23 • (MS) R4130914-7 10/05/24 01:57 • (MSD) R4130914-8 10/05/24 02:14

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 %
Chloride	40.0	1.74	41.4	41.1	99.2	98.4	1	80.0-120			0.842	15
Fluoride	8.00	U	8.27	8.19	103	102	1	80.0-120			1.03	15
Nitrate as (N)	8.00	0.498	8.58	8.49	101	100	1	80.0-120			1.00	15
Nitrite as (N)	8.00	U	8.22	8.15	103	102	1	80.0-120			0.808	15
Sulfate	40.0	2.20	42.9	42.6	102	101	1	80.0-120			0.796	15

Method Blank (MB)

(MB) R4130916-1 10/09/24 22:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4130916-2 10/09/24 22:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00278	92.7	80.0-120	

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/09/24 22:31 • (MS) R4130916-4 10/09/24 22:36 • (MSD) R4130916-5 10/09/24 22:38

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 %
Mercury	0.00300	U	0.00126	0.00127	41.8	42.3	1	75.0-125	J6	J6	1.12	20

L1785420-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785420-06 10/09/24 22:41 • (MS) R4130916-6 10/09/24 22:43 • (MSD) R4130916-7 10/09/24 22:45

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 %
Mercury	0.00300	U	0.00301	0.00296	100	98.6	1	75.0-125			1.67	20

L1785420-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785420-08 10/09/24 22:48 • (MS) R4130916-8 10/09/24 22:55 • (MSD) R4130916-9 10/09/24 22:57

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 %
Mercury	0.00300	U	0.00293	0.00300	97.6	100	1	75.0-125			2.36	20

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4134799-1 10/18/24 15:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R4134799-2 10/18/24 15:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.982	98.2	80.0-120	

L1785315-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785315-01 10/18/24 16:00 • (MS) R4134799-4 10/18/24 16:04 • (MSD) R4134799-5 10/18/24 16:05

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 %
Boron,Dissolved	1.00	0.0833	1.11	1.09	102	101	1	75.0-125			1.34	20

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Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4136197-1 10/23/24 00:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R4136197-2 10/23/24 00:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.937	93.7	80.0-120	

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/23/24 00:22 • (MS) R4136197-4 10/23/24 00:25 • (MSD) R4136197-5 10/23/24 00:27

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 %
Boron,Dissolved	1.00	0.148	1.08	1.10	92.9	94.8	1	75.0-125			1.76	20

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

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4134294-1 10/17/24 18:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0185	0.100
Arsenic,Dissolved	U		0.000180	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Molybdenum,Dissolved	U		0.000348	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Silver,Dissolved	U		0.0000700	0.00200
Zinc,Dissolved	U		0.00302	0.0250

Method Blank (MB)

(MB) R4134336-1 10/17/24 22:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Barium,Dissolved	U		0.000381	0.00200
Uranium,Dissolved	U		0.0000700	0.0200

Laboratory Control Sample (LCS)

(LCS) R4134294-2 10/17/24 18:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	0.926	92.6	80.0-120	
Arsenic,Dissolved	0.0500	0.0443	88.6	80.0-120	
Cadmium,Dissolved	0.0500	0.0469	93.8	80.0-120	
Chromium,Dissolved	0.0500	0.0456	91.3	80.0-120	
Copper,Dissolved	0.0500	0.0467	93.4	80.0-120	
Cobalt,Dissolved	0.0500	0.0462	92.4	80.0-120	
Iron,Dissolved	1.00	0.923	92.3	80.0-120	
Lead,Dissolved	0.0500	0.0446	89.2	80.0-120	
Manganese,Dissolved	0.0500	0.0455	91.0	80.0-120	
Molybdenum,Dissolved	0.0500	0.0454	90.7	80.0-120	
Nickel,Dissolved	0.0500	0.0461	92.3	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4134294-2 10/17/24 18:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Selenium,Dissolved	0.0500	0.0453	90.6	80.0-120	
Silver,Dissolved	0.0500	0.0440	88.0	80.0-120	
Zinc,Dissolved	0.0500	0.0451	90.2	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4134336-2 10/17/24 22:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium,Dissolved	0.0500	0.0479	95.8	80.0-120	
Uranium,Dissolved	0.0500	0.0466	93.1	80.0-120	

L1784840-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1784840-04 10/17/24 18:07 • (MS) R4134294-4 10/17/24 18:14 • (MSD) R4134294-5 10/17/24 18:17

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 %
Aluminum,Dissolved	1.00	0.0273	0.937	0.901	90.9	87.3	1	75.0-125			3.89	20
Arsenic,Dissolved	0.0500	0.000343	0.0458	0.0462	90.9	91.7	1	75.0-125			0.931	20
Cadmium,Dissolved	0.0500	0.000444	0.0476	0.0480	94.4	95.1	1	75.0-125			0.730	20
Chromium,Dissolved	0.0500	U	0.0455	0.0458	90.9	91.5	1	75.0-125			0.689	20
Copper,Dissolved	0.0500	0.0191	0.0658	0.0660	93.4	93.8	1	75.0-125			0.313	20
Cobalt,Dissolved	0.0500	U	0.0459	0.0459	91.7	91.9	1	75.0-125			0.164	20
Iron,Dissolved	1.00	0.0846	0.984	0.974	89.9	88.9	1	75.0-125			1.05	20
Lead,Dissolved	0.0500	U	0.0452	0.0458	90.3	91.6	1	75.0-125			1.37	20
Manganese,Dissolved	0.0500	0.000878	0.0458	0.0482	89.9	94.6	1	75.0-125			4.98	20
Molybdenum,Dissolved	0.0500	0.000853	0.0448	0.0452	87.9	88.8	1	75.0-125			1.02	20
Nickel,Dissolved	0.0500	0.00142	0.0474	0.0471	91.9	91.3	1	75.0-125			0.622	20
Selenium,Dissolved	0.0500	U	0.0463	0.0436	92.5	87.3	1	75.0-125			5.87	20
Silver,Dissolved	0.0500	U	0.0444	0.0444	88.7	88.8	1	75.0-125			0.124	20
Zinc,Dissolved	0.0500	0.112	0.158	0.152	91.0	80.6	1	75.0-125			3.36	20

L1784840-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1784840-04 10/17/24 22:41 • (MS) R4134336-4 10/17/24 22:47 • (MSD) R4134336-5 10/17/24 22:50

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 %
Barium,Dissolved	0.0500	0.00547	0.0555	0.0545	100	98.1	1	75.0-125			1.77	20
Uranium,Dissolved	0.0500	U	0.0475	0.0479	95.0	95.8	1	75.0-125			0.843	20

Method Blank (MB)

(MB) R4134276-1 10/17/24 17:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0160	0.100
Arsenic,Dissolved	U		0.000120	0.00200
Barium,Dissolved	U		0.000500	0.00200
Cadmium,Dissolved	U		0.000120	0.00100
Chromium,Dissolved	U		0.000900	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000500	0.00200
Manganese,Dissolved	U		0.000700	0.00500
Molybdenum,Dissolved	U		0.000500	0.00500
Nickel,Dissolved	U		0.000500	0.00200
Selenium,Dissolved	U		0.000250	0.00200
Silver,Dissolved	U		0.000110	0.00200
Uranium,Dissolved	U		0.000130	0.00100
Zinc,Dissolved	U		0.00400	0.0250

Laboratory Control Sample (LCS)

(LCS) R4134276-2 10/17/24 18:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	0.965	96.5	80.0-120	
Arsenic,Dissolved	0.0500	0.0494	98.9	80.0-120	
Barium,Dissolved	0.0500	0.0483	96.5	80.0-120	
Cadmium,Dissolved	0.0500	0.0500	100	80.0-120	
Chromium,Dissolved	0.0500	0.0496	99.3	80.0-120	
Copper,Dissolved	0.0500	0.0494	98.7	80.0-120	
Cobalt,Dissolved	0.0500	0.0498	99.6	80.0-120	
Iron,Dissolved	1.00	0.950	95.0	80.0-120	
Lead,Dissolved	0.0500	0.0476	95.2	80.0-120	
Manganese,Dissolved	0.0500	0.0486	97.2	80.0-120	
Molybdenum,Dissolved	0.0500	0.0488	97.6	80.0-120	
Nickel,Dissolved	0.0500	0.0497	99.5	80.0-120	
Selenium,Dissolved	0.0500	0.0481	96.1	80.0-120	
Silver,Dissolved	0.0500	0.0490	98.0	80.0-120	
Uranium,Dissolved	0.0500	0.0473	94.7	80.0-120	
Zinc,Dissolved	0.0500	0.0498	99.6	80.0-120	

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/17/24 18:04 • (MS) R4134276-4 10/17/24 18:10 • (MSD) R4134276-5 10/17/24 18:13

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 %
Aluminum,Dissolved	1.00	U	0.966	0.979	96.6	97.9	1	75.0-125			1.34	20
Arsenic,Dissolved	0.0500	0.00395	0.0536	0.0536	99.3	99.3	1	75.0-125			0.0305	20
Barium,Dissolved	0.0500	0.691	0.737	0.734	90.9	86.0	1	75.0-125			0.334	20
Cadmium,Dissolved	0.0500	U	0.0496	0.0493	99.2	98.6	1	75.0-125			0.557	20
Chromium,Dissolved	0.0500	U	0.0492	0.0493	98.5	98.5	1	75.0-125			0.0777	20
Copper,Dissolved	0.0500	U	0.0492	0.0496	98.5	99.1	1	75.0-125			0.678	20
Cobalt,Dissolved	0.0500	0.000167	0.0491	0.0492	97.8	98.0	1	75.0-125			0.171	20
Iron,Dissolved	1.00	1.28	2.33	2.36	105	108	1	75.0-125			1.28	20
Lead,Dissolved	0.0500	U	0.0461	0.0468	92.3	93.6	1	75.0-125			1.43	20
Manganese,Dissolved	0.0500	0.704	0.750	0.749	92.8	89.6	1	75.0-125			0.214	20
Molybdenum,Dissolved	0.0500	0.00203	0.0525	0.0521	101	100	1	75.0-125			0.724	20
Nickel,Dissolved	0.0500	0.00128	0.0498	0.0499	97.0	97.3	1	75.0-125			0.277	20
Selenium,Dissolved	0.0500	U	0.0513	0.0491	103	98.3	1	75.0-125			4.23	20
Silver,Dissolved	0.0500	U	0.0484	0.0485	96.7	97.0	1	75.0-125			0.315	20
Uranium,Dissolved	0.0500	0.0600	0.108	0.110	96.2	99.3	1	75.0-125			1.44	20
Zinc,Dissolved	0.0500	U	0.0525	0.0489	105	97.9	1	75.0-125			7.09	20

Method Blank (MB)

(MB) R4134276-1 10/17/24 17:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum,Dissolved	U		0.0160	0.100
Arsenic,Dissolved	U		0.000120	0.00200
Barium,Dissolved	U		0.000500	0.00200
Cadmium,Dissolved	U		0.000120	0.00100
Chromium,Dissolved	U		0.000900	0.00200
Copper,Dissolved	U		0.00151	0.00500
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000500	0.00200
Manganese,Dissolved	U		0.000700	0.00500
Molybdenum,Dissolved	U		0.000500	0.00500
Nickel,Dissolved	U		0.000500	0.00200
Selenium,Dissolved	U		0.000250	0.00200
Silver,Dissolved	U		0.000110	0.00200
Uranium,Dissolved	U		0.000130	0.00100
Zinc,Dissolved	U		0.00400	0.0250

Laboratory Control Sample (LCS)

(LCS) R4134276-2 10/17/24 18:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum,Dissolved	1.00	0.965	96.5	80.0-120	
Arsenic,Dissolved	0.0500	0.0494	98.9	80.0-120	
Barium,Dissolved	0.0500	0.0483	96.5	80.0-120	
Cadmium,Dissolved	0.0500	0.0500	100	80.0-120	
Chromium,Dissolved	0.0500	0.0496	99.3	80.0-120	
Copper,Dissolved	0.0500	0.0494	98.7	80.0-120	
Cobalt,Dissolved	0.0500	0.0498	99.6	80.0-120	
Iron,Dissolved	1.00	0.950	95.0	80.0-120	
Lead,Dissolved	0.0500	0.0476	95.2	80.0-120	
Manganese,Dissolved	0.0500	0.0486	97.2	80.0-120	
Molybdenum,Dissolved	0.0500	0.0488	97.6	80.0-120	
Nickel,Dissolved	0.0500	0.0497	99.5	80.0-120	
Selenium,Dissolved	0.0500	0.0481	96.1	80.0-120	
Silver,Dissolved	0.0500	0.0490	98.0	80.0-120	
Uranium,Dissolved	0.0500	0.0473	94.7	80.0-120	
Zinc,Dissolved	0.0500	0.0498	99.6	80.0-120	

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/17/24 18:04 • (MS) R4134276-4 10/17/24 18:10 • (MSD) R4134276-5 10/17/24 18:13

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 %
Aluminum,Dissolved	1.00	U	0.966	0.979	96.6	97.9	1	75.0-125			1.34	20
Arsenic,Dissolved	0.0500	0.00395	0.0536	0.0536	99.3	99.3	1	75.0-125			0.0305	20
Barium,Dissolved	0.0500	0.691	0.737	0.734	90.9	86.0	1	75.0-125			0.334	20
Cadmium,Dissolved	0.0500	U	0.0496	0.0493	99.2	98.6	1	75.0-125			0.557	20
Chromium,Dissolved	0.0500	U	0.0492	0.0493	98.5	98.5	1	75.0-125			0.0777	20
Copper,Dissolved	0.0500	U	0.0492	0.0496	98.5	99.1	1	75.0-125			0.678	20
Cobalt,Dissolved	0.0500	0.000167	0.0491	0.0492	97.8	98.0	1	75.0-125			0.171	20
Iron,Dissolved	1.00	1.28	2.33	2.36	105	108	1	75.0-125			1.28	20
Lead,Dissolved	0.0500	U	0.0461	0.0468	92.3	93.6	1	75.0-125			1.43	20
Manganese,Dissolved	0.0500	0.704	0.750	0.749	92.8	89.6	1	75.0-125			0.214	20
Molybdenum,Dissolved	0.0500	0.00203	0.0525	0.0521	101	100	1	75.0-125			0.724	20
Nickel,Dissolved	0.0500	0.00128	0.0498	0.0499	97.0	97.3	1	75.0-125			0.277	20
Selenium,Dissolved	0.0500	U	0.0513	0.0491	103	98.3	1	75.0-125			4.23	20
Silver,Dissolved	0.0500	U	0.0484	0.0485	96.7	97.0	1	75.0-125			0.315	20
Uranium,Dissolved	0.0500	0.0600	0.108	0.110	96.2	99.3	1	75.0-125			1.44	20
Zinc,Dissolved	0.0500	U	0.0525	0.0489	105	97.9	1	75.0-125			7.09	20

Method Blank (MB)

(MB) R4133503-2 10/10/24 23:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0902	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*86.5*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R4133503-1 10/10/24 21:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	4.71	94.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*90.8*	*78.0-120*	

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/11/24 01:58 • (MS) R4133503-3 10/11/24 06:55 • (MSD) R4133503-4 10/11/24 07:16

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 %
TPH (GC/FID) Low Fraction	5.00	0.0957	4.65	4.00	91.1	78.1	1	10.0-160			15.0	22
(S) a,a,a-Trifluorotoluene(FID)					*90.5*	*89.5*		*78.0-120*				

Method Blank (MB)

(MB) R4133002-3 10/11/24 10:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	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
1,2-Dibromoethane	U		0.000126	0.00100
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
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
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
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100

Method Blank (MB)

(MB) R4133002-3 10/11/24 10:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	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	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

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

(LCS) R4133002-1 10/11/24 09:07 • (LCSD) R4133002-2 10/11/24 09:26

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	0.0142	0.0154	56.8	61.6	19.0-160	J	J	8.11	27
Benzene	0.00500	0.00469	0.00460	93.8	92.0	70.0-123			1.94	20
Bromodichloromethane	0.00500	0.00481	0.00480	96.2	96.0	75.0-120			0.208	20
Bromoform	0.00500	0.00482	0.00488	96.4	97.6	68.0-132			1.24	20
Bromomethane	0.00500	0.00591	0.00577	118	115	10.0-160			2.40	25
n-Butylbenzene	0.00500	0.00476	0.00479	95.2	95.8	73.0-125			0.628	20
sec-Butylbenzene	0.00500	0.00496	0.00476	99.2	95.2	75.0-125			4.12	20
tert-Butylbenzene	0.00500	0.00488	0.00489	97.6	97.8	76.0-124			0.205	20
Carbon disulfide	0.00500	0.00498	0.00488	99.6	97.6	61.0-128			2.03	20
Carbon tetrachloride	0.00500	0.00526	0.00534	105	107	68.0-126			1.51	20
Chlorobenzene	0.00500	0.00478	0.00469	95.6	93.8	80.0-121			1.90	20
Chlorodibromomethane	0.00500	0.00510	0.00489	102	97.8	77.0-125			4.20	20
Chloroethane	0.00500	0.00546	0.00502	109	100	47.0-150			8.40	20
Chloroform	0.00500	0.00470	0.00468	94.0	93.6	73.0-120	J	J	0.426	20
Chloromethane	0.00500	0.00515	0.00503	103	101	41.0-142			2.36	20
1,2-Dibromoethane	0.00500	0.00499	0.00489	99.8	97.8	80.0-122			2.02	20
1,1-Dichloroethane	0.00500	0.00489	0.00482	97.8	96.4	70.0-126			1.44	20
1,2-Dichloroethane	0.00500	0.00427	0.00470	85.4	94.0	70.0-128			9.59	20
1,1-Dichloroethene	0.00500	0.00497	0.00489	99.4	97.8	71.0-124			1.62	20
cis-1,2-Dichloroethene	0.00500	0.00483	0.00489	96.6	97.8	73.0-120			1.23	20
trans-1,2-Dichloroethene	0.00500	0.00464	0.00461	92.8	92.2	73.0-120			0.649	20
1,2-Dichloropropane	0.00500	0.00461	0.00475	92.2	95.0	77.0-125			2.99	20
cis-1,3-Dichloropropene	0.00500	0.00492	0.00502	98.4	100	80.0-123			2.01	20
trans-1,3-Dichloropropene	0.00500	0.00495	0.00488	99.0	97.6	78.0-124			1.42	20

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

(LCS) R4133002-1 10/11/24 09:07 • (LCSD) R4133002-2 10/11/24 09:26

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 %
Ethylbenzene	0.00500	0.00487	0.00466	97.4	93.2	79.0-123			4.41	20
Hexachloro-1,3-butadiene	0.00500	0.00436	0.00448	87.2	89.6	54.0-138			2.71	20
2-Hexanone	0.0250	0.0253	0.0243	101	97.2	67.0-149			4.03	20
Isopropylbenzene	0.00500	0.00492	0.00507	98.4	101	76.0-127			3.00	20
p-Isopropyltoluene	0.00500	0.00439	0.00441	87.8	88.2	76.0-125			0.455	20
2-Butanone (MEK)	0.0250	0.0254	0.0257	102	103	44.0-160			1.17	20
Methylene Chloride	0.00500	0.00474	0.00474	94.8	94.8	67.0-120	J	J	0.000	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0259	0.0262	104	105	68.0-142			1.15	20
Methyl tert-butyl ether	0.00500	0.00453	0.00528	90.6	106	68.0-125			15.3	20
Naphthalene	0.00500	0.00339	0.00379	67.8	75.8	54.0-135	J	J	11.1	20
n-Propylbenzene	0.00500	0.00475	0.00462	95.0	92.4	77.0-124			2.77	20
Styrene	0.00500	0.00473	0.00483	94.6	96.6	73.0-130			2.09	20
1,1,2,2-Tetrachloroethane	0.00500	0.00489	0.00460	97.8	92.0	65.0-130			6.11	20
Tetrachloroethene	0.00500	0.00511	0.00486	102	97.2	72.0-132			5.02	20
Toluene	0.00500	0.00476	0.00463	95.2	92.6	79.0-120			2.77	20
1,1,1-Trichloroethane	0.00500	0.00500	0.00506	100	101	73.0-124			1.19	20
1,1,2-Trichloroethane	0.00500	0.00483	0.00477	96.6	95.4	80.0-120			1.25	20
Trichloroethene	0.00500	0.00474	0.00467	94.8	93.4	78.0-124			1.49	20
1,2,4-Trimethylbenzene	0.00500	0.00479	0.00483	95.8	96.6	76.0-121			0.832	20
1,3,5-Trimethylbenzene	0.00500	0.00472	0.00467	94.4	93.4	76.0-122			1.06	20
Vinyl chloride	0.00500	0.00539	0.00539	108	108	67.0-131			0.000	20
Xylenes, Total	0.0150	0.0146	0.0145	97.3	96.7	79.0-123			0.687	20
(S) Toluene-d8				*104*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*105*	*104*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*100*	*103*	*70.0-130*				

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/11/24 16:45 • (MS) R4133002-4 10/11/24 20:21 • (MSD) R4133002-5 10/11/24 20:41

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	U	0.0137	0.0148	54.8	59.2	1	10.0-160			7.72	35
Benzene	0.00500	0.000155	0.00370	0.00478	70.9	92.5	1	17.0-158			25.5	27
Bromodichloromethane	0.00500	U	0.00432	0.00515	86.4	103	1	31.0-150			17.5	27
Bromoform	0.00500	U	0.00468	0.00514	93.6	103	1	29.0-150			9.37	29
Bromomethane	0.00500	U	0.00268	0.00394	53.6	78.8	1	10.0-160		J3	38.1	38
n-Butylbenzene	0.00500	U	0.00343	0.00473	68.6	94.6	1	31.0-150		J3	31.9	30
sec-Butylbenzene	0.00500	U	0.00386	0.00526	77.2	105	1	33.0-155		J3	30.7	29
tert-Butylbenzene	0.00500	U	0.00393	0.00517	78.6	103	1	34.0-153			27.3	28

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/11/24 16:45 • (MS) R4133002-4 10/11/24 20:21 • (MSD) R4133002-5 10/11/24 20:41

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 %
Carbon disulfide	0.00500	U	0.00277	0.00365	55.4	73.0	1	10.0-156			27.4	28
Carbon tetrachloride	0.00500	U	0.00378	0.00561	75.6	112	1	23.0-159		J3	39.0	28
Chlorobenzene	0.00500	U	0.00399	0.00483	79.8	96.6	1	33.0-152			19.0	27
Chlorodibromomethane	0.00500	U	0.00475	0.00526	95.0	105	1	37.0-149			10.2	27
Chloroethane	0.00500	U	0.00331	0.00441	66.2	88.2	1	10.0-160			28.5	30
Chloroform	0.00500	U	0.00390	0.00495	78.0	99.0	1	29.0-154			23.7	28
Chloromethane	0.00500	U	0.00228	0.00310	45.6	62.0	1	10.0-160		J3	30.5	29
1,2-Dibromoethane	0.00500	U	0.00445	0.00497	89.0	99.4	1	34.0-147			11.0	27
1,1-Dichloroethane	0.00500	U	0.00381	0.00502	76.2	100	1	25.0-158		J3	27.4	27
1,2-Dichloroethane	0.00500	U	0.00388	0.00480	77.6	96.0	1	29.0-151			21.2	27
1,1-Dichloroethene	0.00500	U	0.00350	0.00469	70.0	93.8	1	11.0-160		J3	29.1	29
cis-1,2-Dichloroethene	0.00500	U	0.00380	0.00507	76.0	101	1	10.0-160		J3	28.6	27
trans-1,2-Dichloroethene	0.00500	U	0.00313	0.00435	62.6	87.0	1	17.0-153		J3	32.6	27
1,2-Dichloropropane	0.00500	U	0.00386	0.00489	77.2	97.8	1	30.0-156			23.5	27
cis-1,3-Dichloropropene	0.00500	U	0.00413	0.00490	82.6	98.0	1	34.0-149			17.1	28
trans-1,3-Dichloropropene	0.00500	U	0.00437	0.00496	87.4	99.2	1	32.0-149			12.6	28
Ethylbenzene	0.00500	U	0.00366	0.00495	73.2	99.0	1	30.0-155		J3	30.0	27
Hexachloro-1,3-butadiene	0.00500	U	0.00322	0.00448	64.4	89.6	1	20.0-154			32.7	34
2-Hexanone	0.0250	U	0.0251	0.0258	100	103	1	21.0-160			2.75	29
Isopropylbenzene	0.00500	U	0.00395	0.00526	79.0	105	1	28.0-157		J3	28.4	27
p-Isopropyltoluene	0.00500	U	0.00369	0.00493	73.8	98.6	1	30.0-154			28.8	29
2-Butanone (MEK)	0.0250	U	0.0224	0.0244	89.6	97.6	1	10.0-160			8.55	32
Methylene Chloride	0.00500	U	0.00364	0.00453	72.8	90.6	1	23.0-144			21.8	28
4-Methyl-2-pentanone (MIBK)	0.0250	U	0.0254	0.0266	102	106	1	29.0-160			4.62	29
Methyl tert-butyl ether	0.00500	U	0.00445	0.00511	89.0	102	1	28.0-150			13.8	29
Naphthalene	0.00500	U	0.00305	0.00367	61.0	73.4	1	12.0-156	J	J	18.5	35
n-Propylbenzene	0.00500	U	0.00353	0.00479	70.6	95.8	1	31.0-154		J3	30.3	28
Styrene	0.00500	U	0.00389	0.00495	77.8	99.0	1	33.0-155			24.0	28
1,1,2,2-Tetrachloroethane	0.00500	U	0.00475	0.00504	95.0	101	1	33.0-150			5.92	28
Tetrachloroethene	0.00500	U	0.00353	0.00472	70.6	94.4	1	10.0-160		J3	28.8	27
Toluene	0.00500	U	0.00362	0.00465	72.4	93.0	1	26.0-154			24.9	28
1,1,1-Trichloroethane	0.00500	U	0.00369	0.00557	73.8	111	1	23.0-160		J3	40.6	28
1,1,2-Trichloroethane	0.00500	U	0.00463	0.00537	92.6	107	1	35.0-147			14.8	27
Trichloroethene	0.00500	U	0.00358	0.00465	71.6	93.0	1	10.0-160		J3	26.0	25
1,2,4-Trimethylbenzene	0.00500	U	0.00365	0.00502	73.0	100	1	26.0-154		J3	31.6	27
1,3,5-Trimethylbenzene	0.00500	U	0.00368	0.00483	73.6	96.6	1	28.0-153			27.0	27
Vinyl chloride	0.00500	U	0.00327	0.00469	65.4	93.8	1	10.0-160		J3	35.7	27
Xylenes, Total	0.0150	U	0.0114	0.0149	76.0	99.3	1	29.0-154			26.6	28
(S) Toluene-d8					*105*	*103*		*80.0-120*				
(S) 4-Bromofluorobenzene					*105*	*104*		*77.0-126*				

Received by OCD: 4/15/2025 7:55:48 AM

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/11/24 16:45 • (MS) R4133002-4 10/11/24 20:21 • (MSD) R4133002-5 10/11/24 20:41

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 %
(S) 1,2-Dichloroethane-d4					*103*	*102*		*70.0-130*				

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4134498-1 10/17/24 18:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*114*			*52.0-156*

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

(LCS) R4134498-2 10/17/24 19:04 • (LCSD) R4134498-3 10/17/24 19:24

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 %
TPH (GC/FID) High Fraction	1.50	1.67	1.76	111	117	50.0-150			5.25	20
(S) o-Terphenyl				*119*	*123*	*52.0-156*				

Method Blank (MB)

(MB) R4135199-1 10/18/24 21:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*103*			*52.0-156*

Laboratory Control Sample (LCS)

(LCS) R4135199-2 10/18/24 21:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	1.50	1.42	94.7	50.0-150	
(S) o-Terphenyl			*101*	*52.0-156*	

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/19/24 04:10 • (MS) R4135199-3 10/19/24 04:30 • (MSD) R4135199-4 10/19/24 04:49

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 %
TPH (GC/FID) High Fraction	1.43	0.124	0.113	0.0831	0.000	0.000	1	50.0-150	J6	J J3 J6	30.5	20
(S) o-Terphenyl					*106*	*109*		*52.0-156*				

Received by OCD: 4/15/2025 7:55:48 AM

Method Blank (MB)

(MB) R4132321-2 10/11/24 01:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Released to Imaging: 5/2/2025 9:53:52 AM

Method Blank (MB)

(MB) R4132321-2 10/11/24 01:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*42.6*			*10.0-120*
(S) Phenol-d5	*26.4*			*10.0-120*
(S) Nitrobenzene-d5	*55.3*			*10.0-127*
(S) 2-Fluorobiphenyl	*62.1*			*10.0-130*
(S) 2,4,6-Tribromophenol	*59.0*			*10.0-155*
(S) p-Terphenyl-d14	*63.5*			*10.0-128*

Laboratory Control Sample (LCS)

(LCS) R4132321-1 10/11/24 01:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0369	73.8	41.0-120	
Acenaphthylene	0.0500	0.0369	73.8	43.0-120	
Acetophenone	0.0500	0.0373	74.6	29.0-120	
Anthracene	0.0500	0.0372	74.4	45.0-120	
Atrazine	0.0500	0.0437	87.4	39.0-141	
Benzo(a)anthracene	0.0500	0.0370	74.0	47.0-120	
Benzaldehyde	0.0500	0.106	212	10.0-160	J4
Benzo(b)fluoranthene	0.0500	0.0377	75.4	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0388	77.6	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0361	72.2	48.0-121	
Benzo(a)pyrene	0.0500	0.0384	76.8	47.0-120	
Biphenyl	0.0500	0.0366	73.2	38.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0329	65.8	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0349	69.8	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0360	72.0	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0409	81.8	45.0-120	
2-Chloronaphthalene	0.0500	0.0364	72.8	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0400	80.0	44.0-120	
Caprolactam	0.0500	0.0131	26.2	10.0-120	
Carbazole	0.0500	0.0382	76.4	51.0-122	
Chrysene	0.0500	0.0376	75.2	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0410	82.0	47.0-120	
Dibenzofuran	0.0500	0.0375	75.0	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0764	76.4	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0415	83.0	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0400	80.0	46.0-120	
Fluoranthene	0.0500	0.0403	80.6	51.0-120	
Fluorene	0.0500	0.0388	77.6	47.0-120	
Hexachlorobenzene	0.0500	0.0393	78.6	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0375	75.0	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0161	32.2	15.0-120	
Hexachloroethane	0.0500	0.0355	71.0	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0381	76.2	49.0-122	
Isophorone	0.0500	0.0322	64.4	36.0-120	
1-Methylnaphthalene	0.0500	0.0351	70.2	33.0-120	
2-Methylnaphthalene	0.0500	0.0365	73.0	33.0-120	
Naphthalene	0.0500	0.0326	65.2	27.0-120	
Nitrobenzene	0.0500	0.0327	65.4	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0356	71.2	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0341	68.2	31.0-120	

Laboratory Control Sample (LCS)

(LCS) R4132321-1 10/11/24 01:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	0.0500	0.0368	73.6	46.0-120	
Benzylbutyl phthalate	0.0500	0.0378	75.6	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0373	74.6	43.0-122	
Di-n-butyl phthalate	0.0500	0.0377	75.4	49.0-121	
Diethyl phthalate	0.0500	0.0382	76.4	48.0-122	
Dimethyl phthalate	0.0500	0.0382	76.4	48.0-120	
Di-n-octyl phthalate	0.0500	0.0369	73.8	42.0-125	
Pyrene	0.0500	0.0372	74.4	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0360	72.0	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0321	64.2	40.0-120	
2-Chlorophenol	0.0500	0.0354	70.8	25.0-120	
2,4-Dichlorophenol	0.0500	0.0380	76.0	36.0-120	
2,4-Dimethylphenol	0.0500	0.0332	66.4	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0411	82.2	38.0-138	
2,4-Dinitrophenol	0.0500	0.0391	78.2	10.0-120	
2-Nitrophenol	0.0500	0.0400	80.0	31.0-120	
2-Nitroaniline	0.0500	0.0413	82.6	43.0-120	
2-Methylphenol	0.0500	0.0305	61.0	28.0-120	
3&4-Methyl Phenol	0.0500	0.0308	61.6	31.0-120	
3-Nitroaniline	0.0500	0.0354	70.8	38.0-120	
4-Chloroaniline	0.0500	0.0279	55.8	25.0-120	
4-Nitroaniline	0.0500	0.0378	75.6	18.0-160	
4-Nitrophenol	0.0500	0.0137	27.4	10.0-120	
Pentachlorophenol	0.0500	0.0350	70.0	23.0-120	
Phenol	0.0500	0.0157	31.4	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0426	85.2	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0414	82.8	42.0-120	
(S) 2-Fluorophenol			*49.9*	*10.0-120*	
(S) Phenol-d5			*31.8*	*10.0-120*	
(S) Nitrobenzene-d5			*59.9*	*10.0-127*	
(S) 2-Fluorobiphenyl			*75.7*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*85.5*	*10.0-155*	
(S) p-Terphenyl-d14			*80.9*	*10.0-128*	

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/11/24 15:47 • (MS) R4134128-1 10/11/24 16:09 • (MSD) R4134128-2 10/11/24 16:30

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 %
Acenaphthene	0.0495	U	0.0183	0.0306	37.0	62.4	1	28.0-120		J3	50.3	25
Acenaphthylene	0.0495	U	0.0187	0.0320	37.8	65.3	1	31.0-121		J3	52.5	25
Acetophenone	0.0495	U	0.0253	0.0428	51.1	87.3	1	20.0-120		J3	51.4	35
Anthracene	0.0495	U	0.0181	0.0303	36.6	61.8	1	36.0-120		J3	50.4	23
Atrazine	0.0495	U	0.0196	0.0336	39.6	68.6	1	39.0-130		J3	52.6	23
Benzo(a)anthracene	0.0495	U	0.0194	0.0324	39.2	66.1	1	39.0-120		J3	50.2	23
Benzaldehyde	0.0495	U	0.0757	0.124	153	253	1	10.0-160		J3 J5	48.4	40
Benzo(b)fluoranthene	0.0495	U	0.0183	0.0312	37.0	63.7	1	37.0-120		J3	52.1	23
Benzo(k)fluoranthene	0.0495	U	0.0191	0.0313	38.6	63.9	1	37.0-120		J3	48.4	26
Benzo(g,h,i)perylene	0.0495	U	0.0177	0.0292	35.8	59.6	1	37.0-123	J6	J3	49.0	25
Benzo(a)pyrene	0.0495	U	0.0178	0.0304	36.0	62.0	1	37.0-120	J6	J3	52.3	24
Biphenyl	0.0495	U	0.0203	0.0335	41.0	68.4	1	29.0-120		J3	49.1	33
Bis(2-chlorethoxy)methane	0.0495	U	0.0216	0.0350	43.6	71.4	1	17.0-120		J3	47.3	31
Bis(2-chloroethyl)ether	0.0495	U	0.0327	0.0548	66.1	112	1	14.0-120		J3	50.5	33
2,2-Oxybis(1-Chloropropane)	0.0495	U	0.0232	0.0372	46.9	75.9	1	18.0-120		J3	46.4	34
4-Bromophenyl-phenylether	0.0495	U	0.0197	0.0329	39.8	67.1	1	37.0-120		J3	50.2	24
2-Chloronaphthalene	0.0495	U	0.0191	0.0319	38.6	65.1	1	29.0-120		J3	50.2	28
4-Chlorophenyl-phenylether	0.0495	U	0.0205	0.0346	41.4	70.6	1	36.0-120		J3	51.2	23
Caprolactam	0.0495	U	0.00829	0.0124	16.7	25.3	1	10.0-120	J		39.7	40
Carbazole	0.0495	U	0.0205	0.0342	41.4	69.8	1	38.0-127		J3	50.1	21
Chrysene	0.0495	U	0.0193	0.0321	39.0	65.5	1	38.0-120		J3	49.8	23
Dibenz(a,h)anthracene	0.0495	U	0.0189	0.0312	38.2	63.7	1	36.0-121		J3	49.1	24
Dibenzofuran	0.0495	U	0.0200	0.0330	40.4	67.3	1	32.0-120		J3	49.1	26
3,3-Dichlorobenzidine	0.0990	U	0.0382	0.0699	38.6	71.3	1	10.0-134		J3	58.6	30
2,4-Dinitrotoluene	0.0495	U	0.0220	0.0371	44.4	75.7	1	39.0-125		J3	51.1	25
2,6-Dinitrotoluene	0.0495	U	0.0211	0.0364	42.6	74.3	1	36.0-120		J3	53.2	27
Fluoranthene	0.0495	U	0.0194	0.0325	39.2	66.3	1	41.0-121	J6	J3	50.5	22
Fluorene	0.0495	U	0.0190	0.0319	38.4	65.1	1	37.0-120		J3	50.7	24
Hexachlorobenzene	0.0495	U	0.0184	0.0306	37.2	62.4	1	35.0-122		J3	49.8	24
Hexachloro-1,3-butadiene	0.0495	U	0.0183	0.0287	37.0	58.6	1	12.0-120		J3	44.3	34
Hexachlorocyclopentadiene	0.0495	U	0.00759	0.0137	15.3	28.0	1	10.0-120	J	J3	57.4	33
Hexachloroethane	0.0495	U	0.0180	0.0288	36.4	58.8	1	10.0-120		J3	46.2	40
Indeno(1,2,3-cd)pyrene	0.0495	U	0.0173	0.0289	34.9	59.0	1	38.0-125	J6	J3	50.2	24
Isophorone	0.0495	U	0.0209	0.0337	42.2	68.8	1	21.0-120		J3	46.9	27
1-Methylnaphthalene	0.0495	U	0.0172	0.0277	34.7	56.5	1	11.0-120		J3	46.8	27
2-Methylnaphthalene	0.0495	U	0.0180	0.0292	36.4	59.6	1	17.0-120		J3	47.5	28
Naphthalene	0.0495	U	0.0178	0.0284	36.0	58.0	1	10.0-120		J3	45.9	31
Nitrobenzene	0.0495	U	0.0219	0.0351	44.2	71.6	1	12.0-120		J3	46.3	30
n-Nitrosodiphenylamine	0.0495	U	0.0160	0.0268	32.3	54.7	1	37.0-120	J6	J3	50.5	24
n-Nitrosodi-n-propylamine	0.0495	U	0.0309	0.0439	62.4	89.6	1	16.0-120		J3	34.8	30

L1785334-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1785334-09 10/11/24 15:47 • (MS) R4134128-1 10/11/24 16:09 • (MSD) R4134128-2 10/11/24 16:30

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 %
Phenanthrene	0.0495	U	0.0190	0.0316	38.4	64.5	1	33.0-120		J3	49.8	22
Benzylbutyl phthalate	0.0495	U	0.0201	0.0354	40.6	72.2	1	34.0-126		J3	55.1	24
Bis(2-ethylhexyl)phthalate	0.0495	U	0.0179	0.0312	36.2	63.7	1	33.0-126		J3	54.2	25
Di-n-butyl phthalate	0.0495	U	0.0192	0.0325	38.8	66.3	1	35.0-128		J3	51.5	23
Diethyl phthalate	0.0495	U	0.0207	0.0349	41.8	71.2	1	39.0-125		J3	51.1	24
Dimethyl phthalate	0.0495	U	0.0204	0.0341	41.2	69.6	1	37.0-120		J3	50.3	24
Di-n-octyl phthalate	0.0495	U	0.0190	0.0326	38.4	66.5	1	25.0-135		J3	52.7	26
Pyrene	0.0495	U	0.0183	0.0313	37.0	63.9	1	39.0-120	J6	J3	52.4	22
1,2,4-Trichlorobenzene	0.0495	U	0.0178	0.0279	36.0	56.9	1	15.0-120		J3	44.2	31
4-Chloro-3-methylphenol	0.0495	U	0.0157	0.0258	31.7	52.7	1	26.0-120		J3	48.7	27
2-Chlorophenol	0.0495	U	0.0185	0.0324	37.4	66.1	1	18.0-120		J3	54.6	34
2,4-Dichlorophenol	0.0495	U	0.0172	0.0291	34.7	59.4	1	19.0-120		J3	51.4	27
2,4-Dimethylphenol	0.0495	U	0.0175	0.0281	35.4	57.3	1	15.0-120		J3	46.5	28
4,6-Dinitro-2-methylphenol	0.0495	U	0.0189	0.0230	38.2	46.9	1	10.0-144			19.6	39
2,4-Dinitrophenol	0.0495	U	0.0111	0.00873	22.4	17.8	1	10.0-120		J	23.9	40
2-Nitrophenol	0.0495	U	0.0193	0.0335	39.0	68.4	1	20.0-120		J3	53.8	30
2-Nitroaniline	0.0495	U	0.0217	0.0370	43.8	75.5	1	33.0-120		J3	52.1	27
2-Methylphenol	0.0495	U	0.0166	0.0277	33.5	56.5	1	10.0-120		J3	50.1	30
3&4-Methyl Phenol	0.0495	U	0.0176	0.0290	35.6	59.2	1	10.0-120		J3	48.9	36
3-Nitroaniline	0.0495	U	0.0211	0.0360	42.6	73.5	1	20.0-120		J3	52.2	27
4-Chloroaniline	0.0495	U	0.0177	0.0283	35.8	57.8	1	10.0-120		J3	46.1	31
4-Nitroaniline	0.0495	U	0.0239	0.0408	48.3	83.3	1	10.0-160		J3	52.2	26
4-Nitrophenol	0.0495	U	0.0583	0.0937	118	191	1	10.0-120		J3 J5	46.6	40
Pentachlorophenol	0.0495	U	0.00963	0.0138	19.5	28.2	1	10.0-128	J		35.6	37
Phenol	0.0495	U	0.0106	0.0180	21.4	36.7	1	10.0-120		J3	51.7	40
2,4,5-Trichlorophenol	0.0495	U	0.0187	0.0325	37.8	66.3	1	33.0-120		J3	53.9	31
2,4,6-Trichlorophenol	0.0495	U	0.0163	0.0274	32.9	55.9	1	26.0-120		J3	50.8	31
(S) 2-Fluorophenol					*26.3*	*43.6*		*10.0-120*				
(S) Phenol-d5					*18.5*	*29.8*		*10.0-120*				
(S) Nitrobenzene-d5					*45.8*	*73.5*		*10.0-127*				
(S) 2-Fluorobiphenyl					*41.6*	*68.9*		*10.0-130*				
(S) 2,4,6-Tribromophenol					*31.9*	*56.1*		*10.0-155*				
(S) p-Terphenyl-d14					*35.6*	*58.8*		*10.0-128*				

Method Blank (MB)

(MB) R4133091-2 10/13/24 09:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Method Blank (MB)

(MB) R4133091-2 10/13/24 09:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) 2-Fluorophenol	*41.4*			*10.0-120*
(S) Phenol-d5	*27.1*			*10.0-120*
(S) Nitrobenzene-d5	*63.7*			*10.0-127*
(S) 2-Fluorobiphenyl	*73.0*			*10.0-130*
(S) 2,4,6-Tribromophenol	*76.5*			*10.0-155*
(S) p-Terphenyl-d14	*82.4*			*10.0-128*

Laboratory Control Sample (LCS)

(LCS) R4133091-1 10/13/24 09:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0324	64.8	41.0-120	
Acenaphthylene	0.0500	0.0323	64.6	43.0-120	
Acetophenone	0.0500	0.0334	66.8	29.0-120	
Anthracene	0.0500	0.0325	65.0	45.0-120	
Atrazine	0.0500	0.0430	86.0	39.0-141	
Benzo(a)anthracene	0.0500	0.0341	68.2	47.0-120	
Benzaldehyde	0.0500	0.0922	184	10.0-160	J4
Benzo(b)fluoranthene	0.0500	0.0352	70.4	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0348	69.6	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0346	69.2	48.0-121	
Benzo(a)pyrene	0.0500	0.0351	70.2	47.0-120	
Biphenyl	0.0500	0.0322	64.4	38.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0290	58.0	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0309	61.8	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0314	62.8	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0373	74.6	45.0-120	
2-Chloronaphthalene	0.0500	0.0316	63.2	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0367	73.4	44.0-120	
Caprolactam	0.0500	0.0127	25.4	10.0-120	
Carbazole	0.0500	0.0342	68.4	51.0-122	
Chrysene	0.0500	0.0348	69.6	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0386	77.2	47.0-120	
Dibenzofuran	0.0500	0.0333	66.6	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0803	80.3	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0389	77.8	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0371	74.2	46.0-120	
Fluoranthene	0.0500	0.0365	73.0	51.0-120	
Fluorene	0.0500	0.0347	69.4	47.0-120	
Hexachlorobenzene	0.0500	0.0361	72.2	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0318	63.6	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0122	24.4	15.0-120	
Hexachloroethane	0.0500	0.0287	57.4	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0354	70.8	49.0-122	
Isophorone	0.0500	0.0275	55.0	36.0-120	
1-Methylnaphthalene	0.0500	0.0319	63.8	33.0-120	
2-Methylnaphthalene	0.0500	0.0332	66.4	33.0-120	
Naphthalene	0.0500	0.0283	56.6	27.0-120	
Nitrobenzene	0.0500	0.0287	57.4	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0335	67.0	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0309	61.8	31.0-120	

Laboratory Control Sample (LCS)

(LCS) R4133091-1 10/13/24 09:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	0.0500	0.0329	65.8	46.0-120	
Benzylbutyl phthalate	0.0500	0.0356	71.2	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0363	72.6	43.0-122	
Di-n-butyl phthalate	0.0500	0.0357	71.4	49.0-121	
Diethyl phthalate	0.0500	0.0355	71.0	48.0-122	
Dimethyl phthalate	0.0500	0.0348	69.6	48.0-120	
Di-n-octyl phthalate	0.0500	0.0360	72.0	42.0-125	
Pyrene	0.0500	0.0347	69.4	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0312	62.4	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0307	61.4	40.0-120	
2-Chlorophenol	0.0500	0.0313	62.6	25.0-120	
2,4-Dichlorophenol	0.0500	0.0350	70.0	36.0-120	
2,4-Dimethylphenol	0.0500	0.0287	57.4	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0385	77.0	38.0-138	
2,4-Dinitrophenol	0.0500	0.0369	73.8	10.0-120	
2-Nitrophenol	0.0500	0.0350	70.0	31.0-120	
2-Nitroaniline	0.0500	0.0367	73.4	43.0-120	
2-Methylphenol	0.0500	0.0285	57.0	28.0-120	
3&4-Methyl Phenol	0.0500	0.0291	58.2	31.0-120	
3-Nitroaniline	0.0500	0.0343	68.6	38.0-120	
4-Chloroaniline	0.0500	0.0255	51.0	25.0-120	
4-Nitroaniline	0.0500	0.0354	70.8	18.0-160	
4-Nitrophenol	0.0500	0.0134	26.8	10.0-120	
Pentachlorophenol	0.0500	0.0290	58.0	23.0-120	
Phenol	0.0500	0.0138	27.6	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0380	76.0	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0370	74.0	42.0-120	
(S) 2-Fluorophenol			*43.2*	*10.0-120*	
(S) Phenol-d5			*27.9*	*10.0-120*	
(S) Nitrobenzene-d5			*52.2*	*10.0-127*	
(S) 2-Fluorobiphenyl			*66.9*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*78.5*	*10.0-155*	
(S) p-Terphenyl-d14			*75.7*	*10.0-128*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C6	The initial calibration verification standard (SSCV) associated with this data responded low.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: jspeer@trccompanies.com;aeljuri@trccompanie

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT (MT) CT ET

Phone: **512-684-3176**

Client Project # **584880.0000.0000**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Scott Ude + HMI Team

Site/Facility ID #

P.O. # **213735**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3 (2 ✓)	NAVAJOMETALSDISS-FF 250mlHDPE HNO3 (2 ✓)	TDS 500mlHDPE-NoPres	V8260 40mlAmb-HCl	V8260 40mlAmb-HCl-Blk		Remarks	Sample # (lab only)
MW-6	G	GW		10-3-24	1135	3	X				X	X						-01
MW-8		GW			1045	2	X						X					-02
MW-11R		GW			1110	5		X						X				-03
MW-12R2		GW			1040	5		X						X				-04
MW-13R		GW			925	2	X						X					-05
MW-15R		GW			900	4	X				X	X	X					-06
MW-19R		GW			950	2	X						X					-07
MW-28		GW				1	X									well	is dry -	not sampled
MW-29		GW				2					X	X				well	is dry -	not sampled
MW-30		GW				9	X	X			X	X	X	X		well	is dry -	not sampled

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

Remarks: FF = Field Filtered 0.45µm for diss. metals

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature) — Date: 10-3-24 — Time: 1400

Received by: (Signature)

Trip Blank Received: (Yes) / No — HCl / MeoH — TBR — 2

Relinquished by : (Signature) — Date: — Time:

Received by: (Signature)

Temp: °C — Bottles Received: 147

If preservation required by Login: Date/Time

Relinquished by : (Signature) — Date: — Time:

Received for lab by: (Signature)

Date: 10-4-24 — Time: 0900

Hold: — Condition: NCF / (OK)

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

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 # L1785334
K049

Acctnum: **TRCATX**
Template: **T260121**
Prelogin: **P1101588**
PM: **526 - Chris McCord**
PB: 8C 9-11-24

Shipped Via: **FedEx Priority**

Company Name/Address:
TRC Solutions - Austin, TX

505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;aeljuri@trccompanie**

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT (MT) CT ET

Phone: **512-684-3176**

Client Project # **584880.0000.0000**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Scott Ude + HMI Team

Site/Facility ID #

P.O. # **213735**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS-FF 250mlHDPE HNO3	TDS 500mlHDPE-NoPres	V8260 40mlAmb-HCl	V8260 40mlAmb-HCl-Blk	O = MS/MSD vol. provided	Remarks	Sample # (lab only)
MW-31		GW				13	X	X	X	X	X	X	X	X	No	sample	LNAPL recovery	
MW-32	G	GW		10-3-24	950	13	X	X	X	X	X	X	X	X				-08
MW-33		GW			840	33	X	X	X	X	X	X	X	X				-09
WW-NORTH		GW			1020	13	X	X	X	X	X	X	X	X				-10
WW-SOUTH		GW			935	13	X	X	X	X	X	X	X	X				-11
WW-EAST		GW			1110	13	X	X	X	X	X	X	X	X				-12
DUP-01		GW			1000	13	X	X	X	X	X	X	X	X				-13
DUP-02		GW			900	13	X	X	X	X	X	X	X	X				-14
EB-01		GW			1120	13	X	X	X	X	X	X	X	X				-15
		GW				13	X	X	X	X	X	X	X	X				

Chain of Custody Page 2 of 3

Pace
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12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # L1785334

Table #

Acctnum: **TRCATX**
Template: **T260121**
Prelogin: **P1101588**
PM: **526 - Chris McCord**
PB: JC 9-11-24

Shipped Via: **FedEX Priority**

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

Remarks: O = MS/MSD per bottle volume provided by lab.

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)
Brian Uhrin	10-3-24	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jamaun

Trip Blank Received: Yes / (No)
2 HCl / MeoH
TBR

Temp: °C Bottles Received: 147

Date: 10-4-24 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Company Name/Address:
TRC Solutions - Austin, TX

505 E. Huntland Drive, Suite 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;aeljuri@trccompanie**

Project Description: **Lovington Lea Refinery**

City/State Collected: Lovington, NM

Please Circle: PT (MT) CT ET

Phone: **512-684-3176**

Client Project # **584880.0000.0000**

Lab Project # **TRCATX-LOVINGTON NAV**

Collected by (print): Scott Hide + HMI Team

Site/Facility ID #

P.O. # **213735**

Collected by (signature): Scott Hide

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**WetChem-48hr HT** 125mlHDPE-NoPres	8270TX 100ml Amb NoPres	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	HG 250mlHDPE-HNO3	NAVAJOMETALSDISS-FF 250mlHDPE HNO3	TDS 500mlHDPE-NoPres	V8260 40mlAmb-HCl	V8260 40mlAmb-HCl-Blk		Remarks	Sample # (lab only)
TRIP BLANK-01	G	GW		10-3-24	—	1									X			-16
TRIP BLANK-02	G	GW		↓	—	1									X			-17

Chain of Custody Page 3 of 3

Pace
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MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # L1785334

Table #

Acctnum: **TRCATX**
Template: **T260121**
Prelogin: **P1101588**
PM: **526 - Chris McCord**
PB: 9-11-24

Shipped Via: **FedEX Priority**

* 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
	10-3-24	1400		2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 14/7
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-4-24 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Released to Imaging: 5/2/2025 9:53:52 AM

Received by OCD: 4/15/2025 7:55:48 AM

4785334

Fed Ex tracking #	Gun ID	Temperature
4171 6901 3973	MSA9	0.4+0.3=0.7
4041 0479 5633		5.6+0.3=5.9
4171 6901 3962		2.1+0.3=2.4
4171 6901 3951		4.1+0.3=4.4
7320 9666 2392		0.5+0.3=0.8
7320 9666 2360	↓	4.0+0.3=4.3

Name

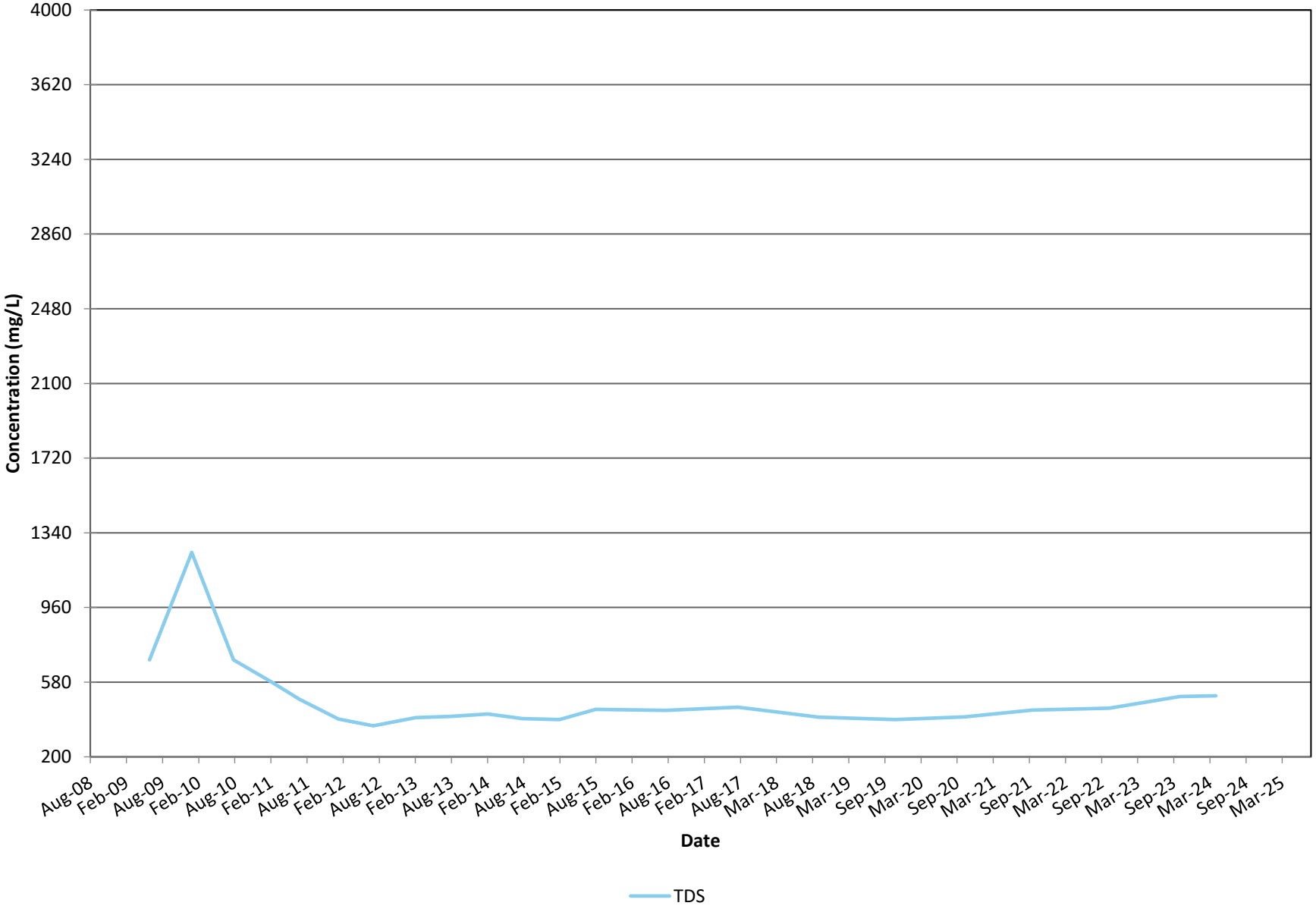
Date

APPENDIX D

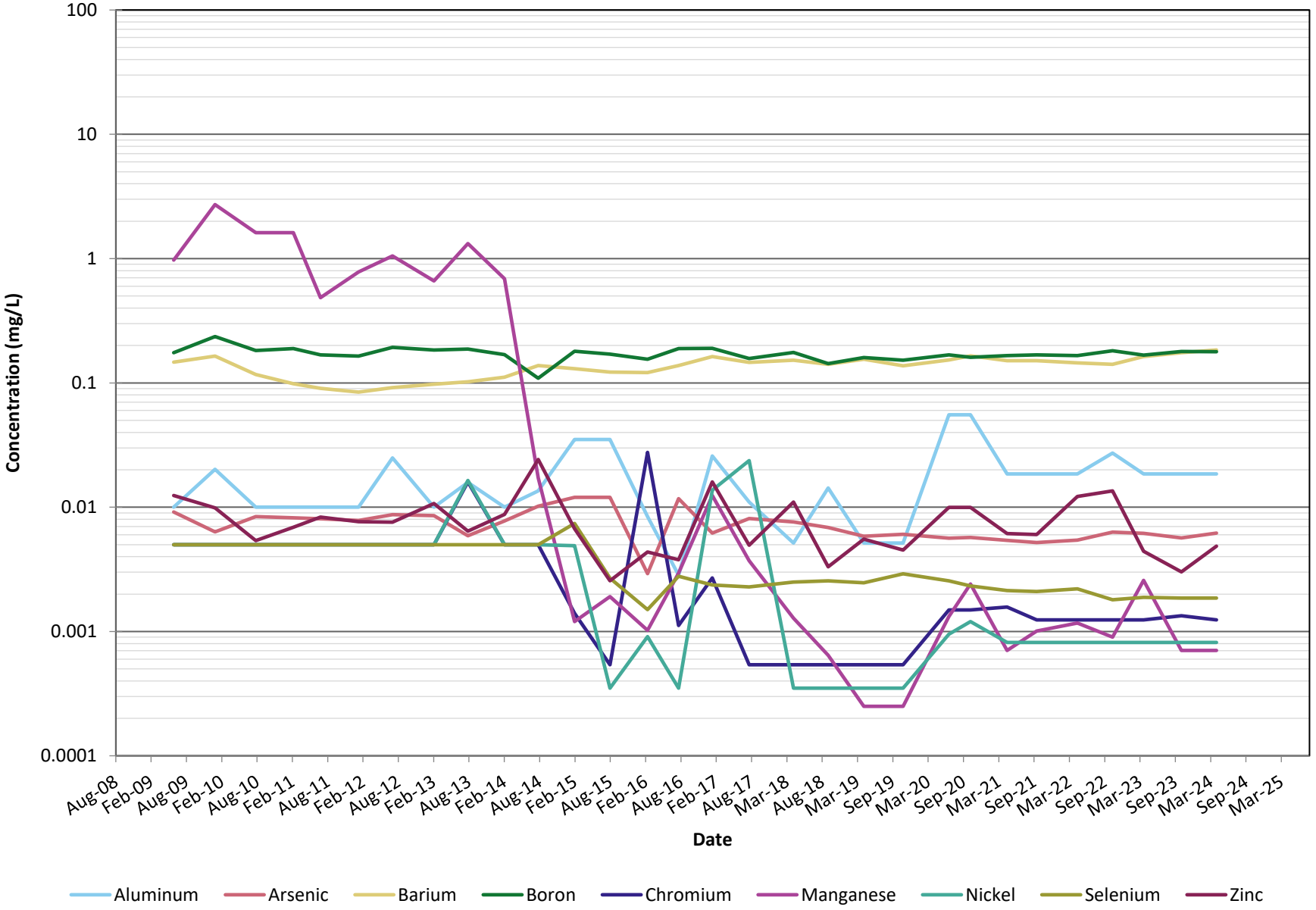
PLOTS OF GROUNDWATER CONCENTRATIONS OVER TIME

Released to Imaging: 5/2/2025 9:53:52 AM

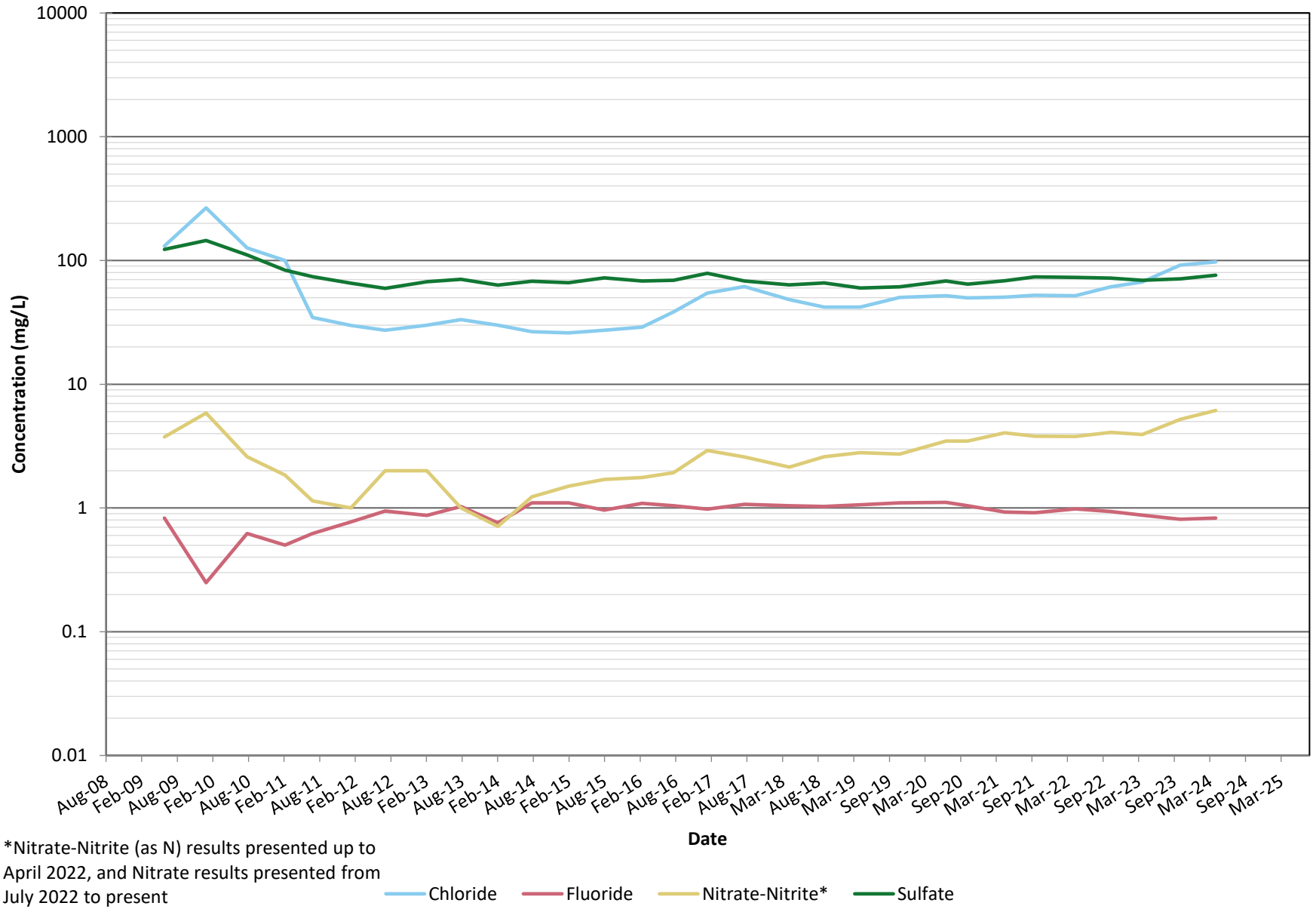
MW-1 TDS CONCENTRATIONS OVER TIME



MW-1 Metals CONCENTRATIONS OVER TIME

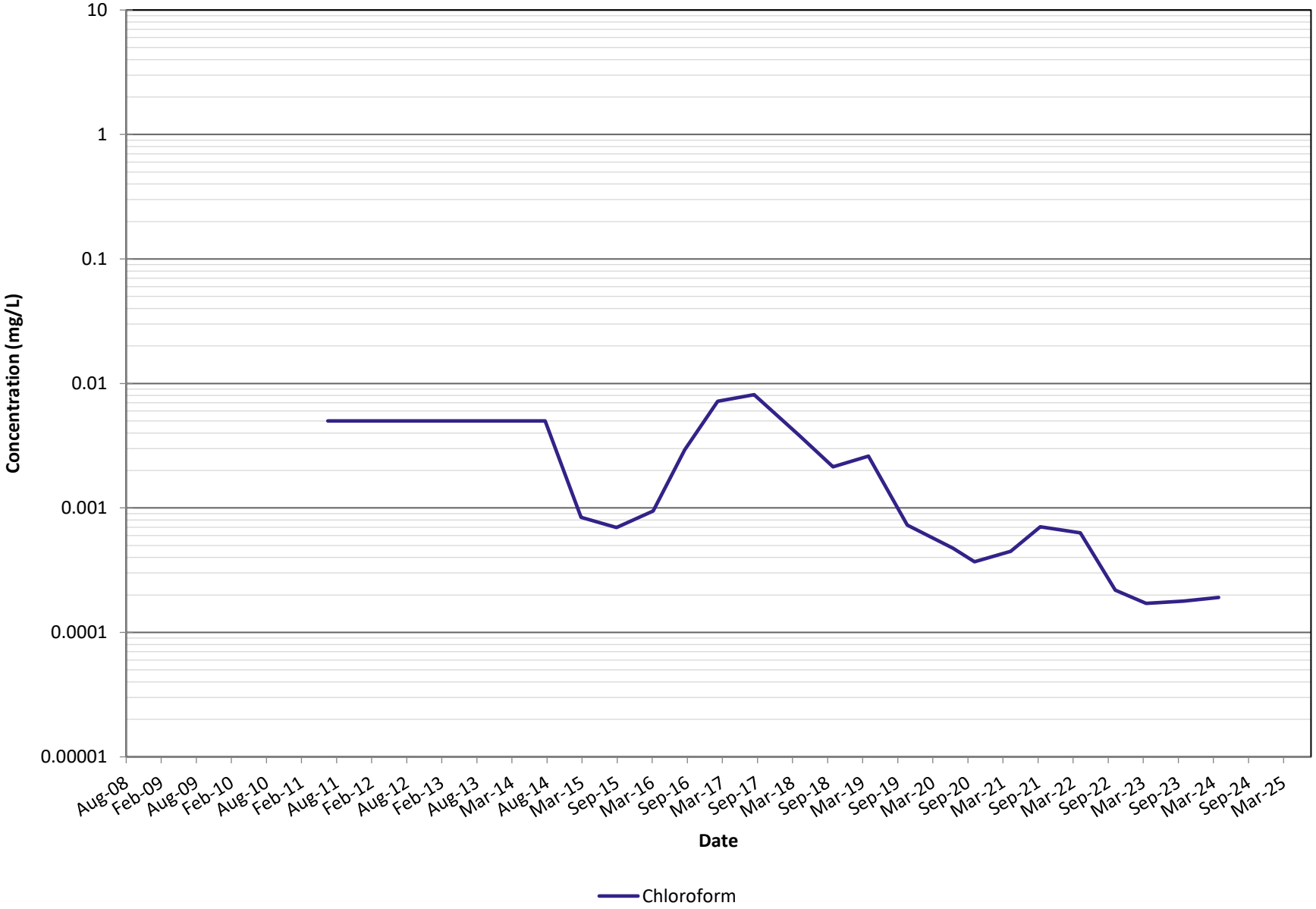


MW-1 Anions CONCENTRATIONS OVER TIME

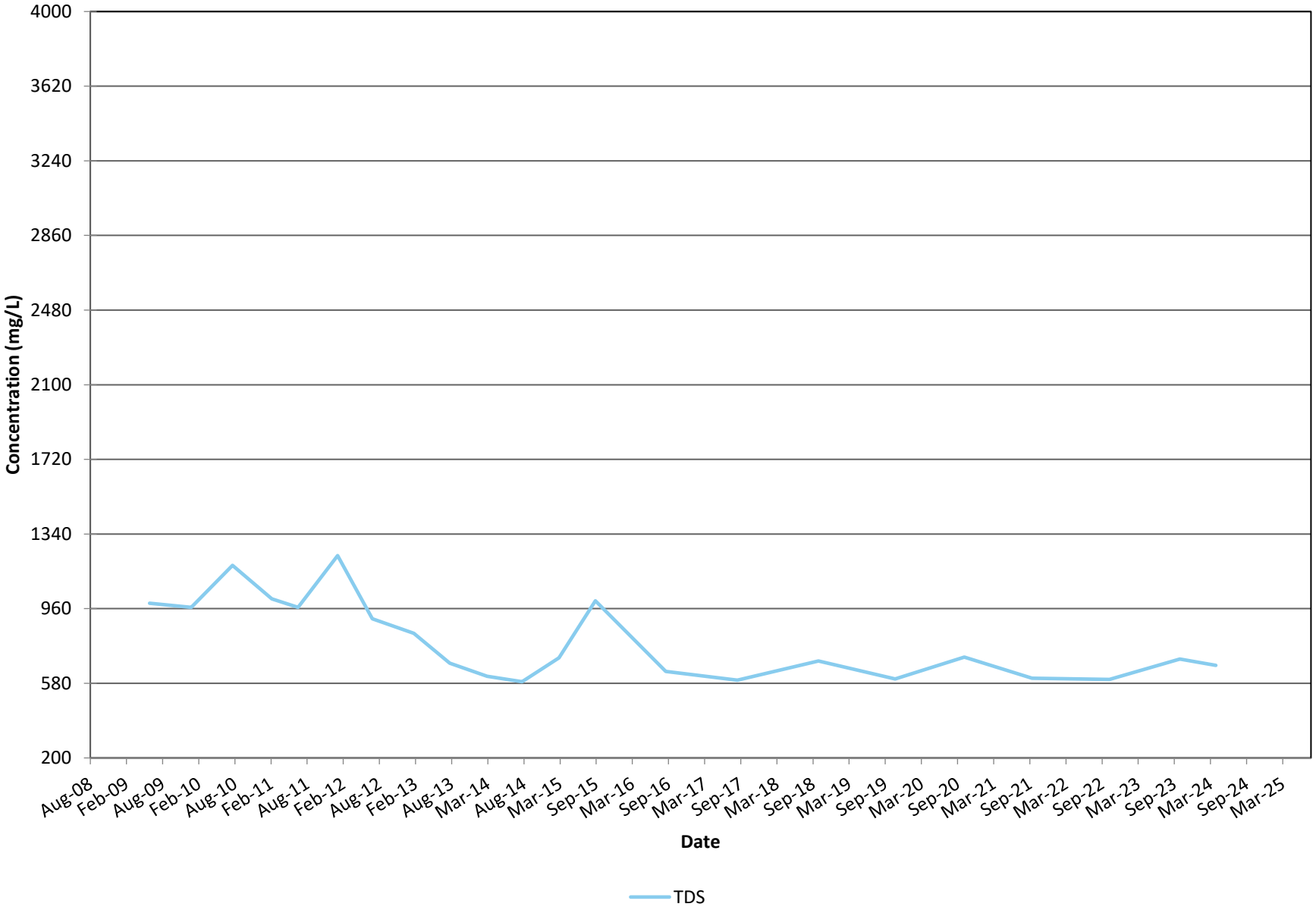


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

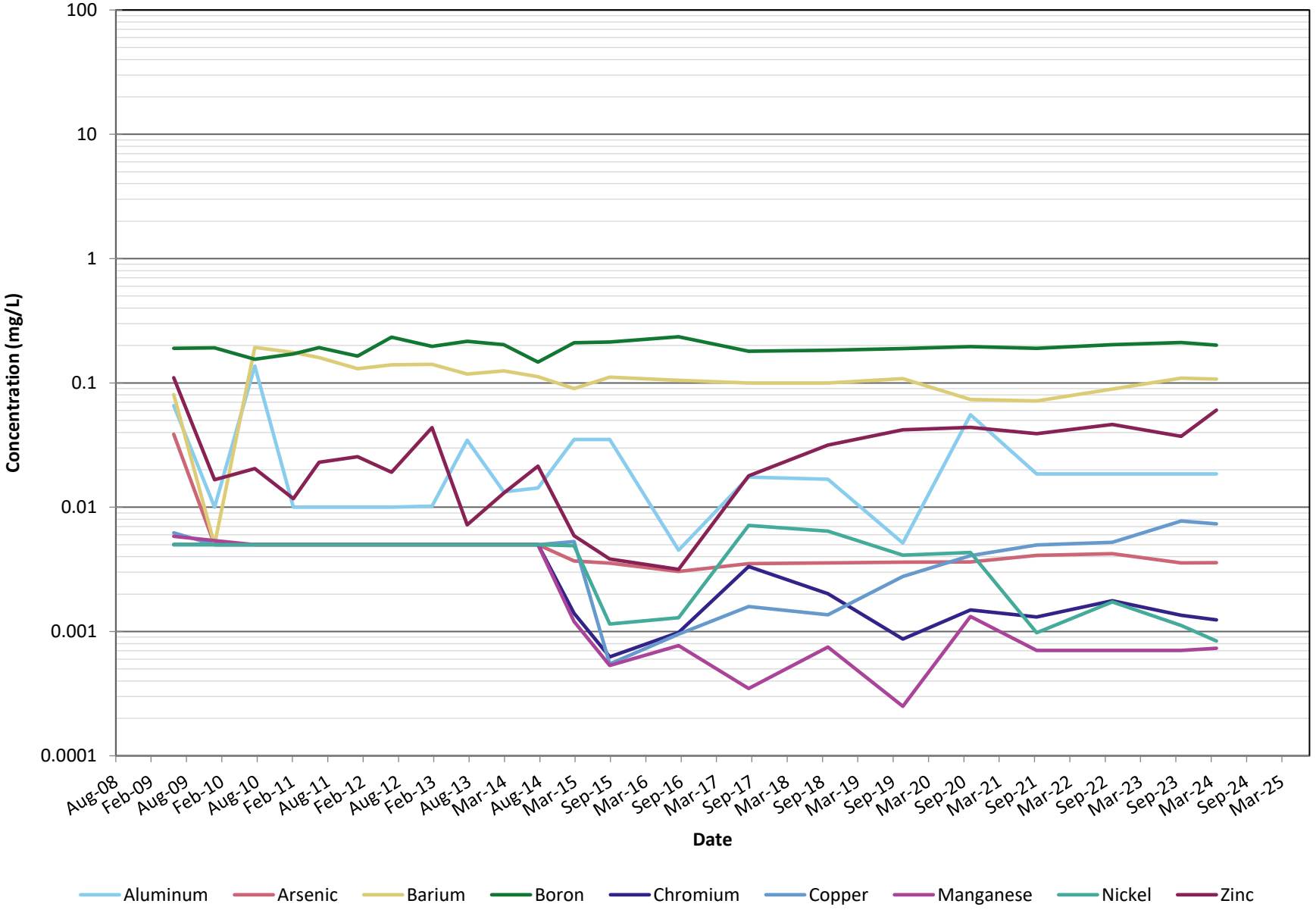
MW-2 VOC CONCENTRATIONS OVER TIME



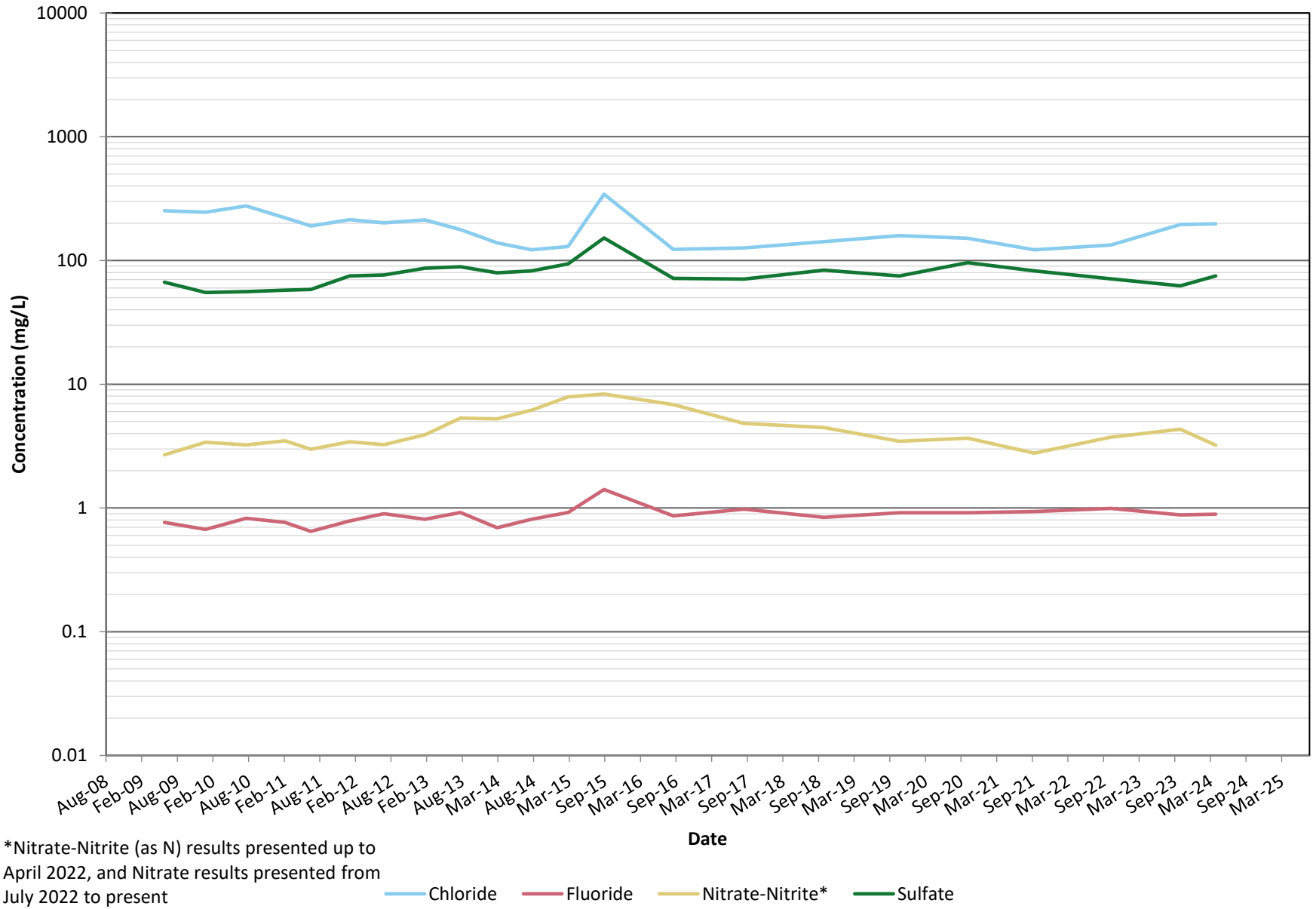
MW-2 TDS CONCENTRATIONS OVER TIME



MW-2 Metals CONCENTRATIONS OVER TIME

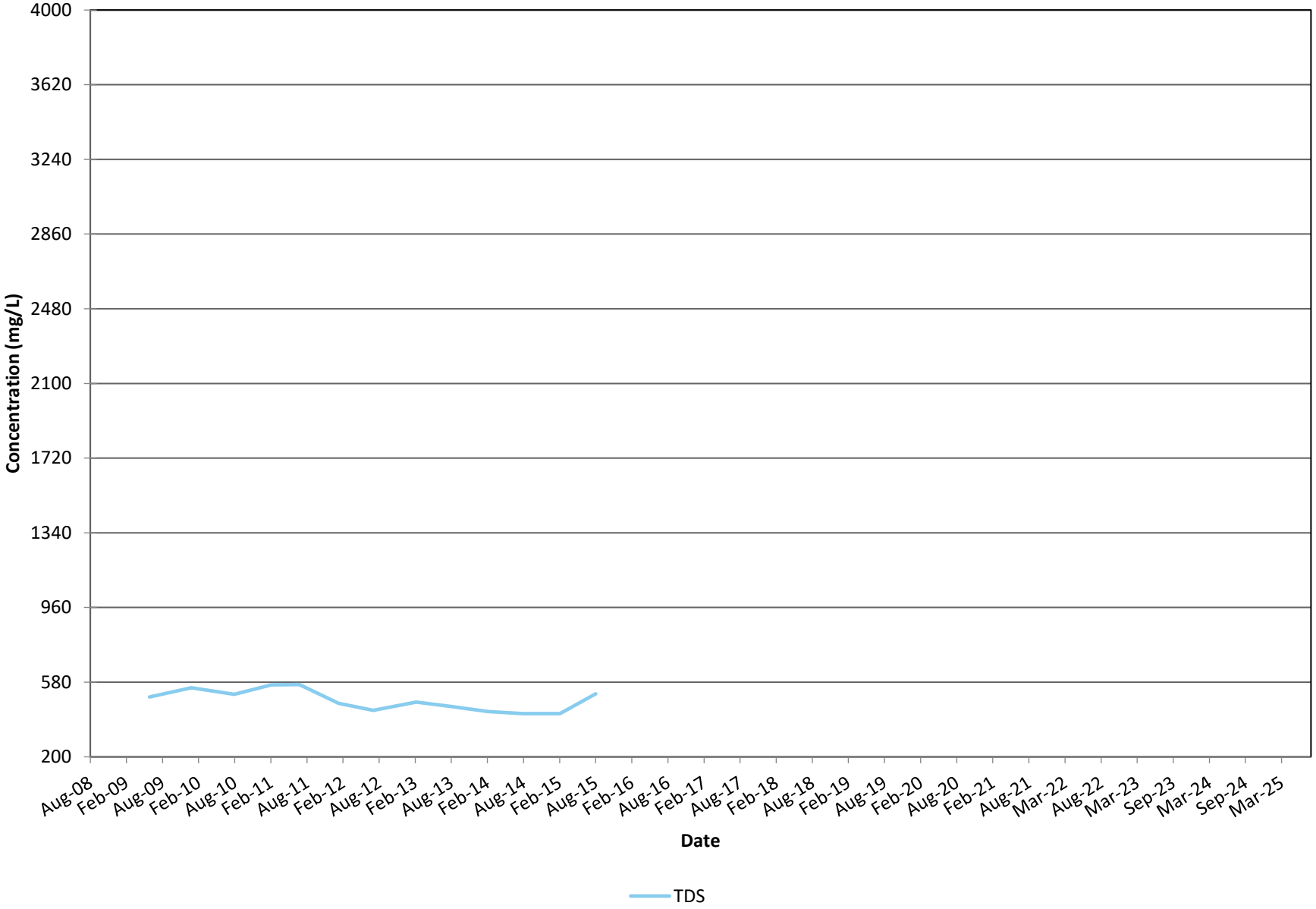


MW-2 Anions CONCENTRATIONS OVER TIME

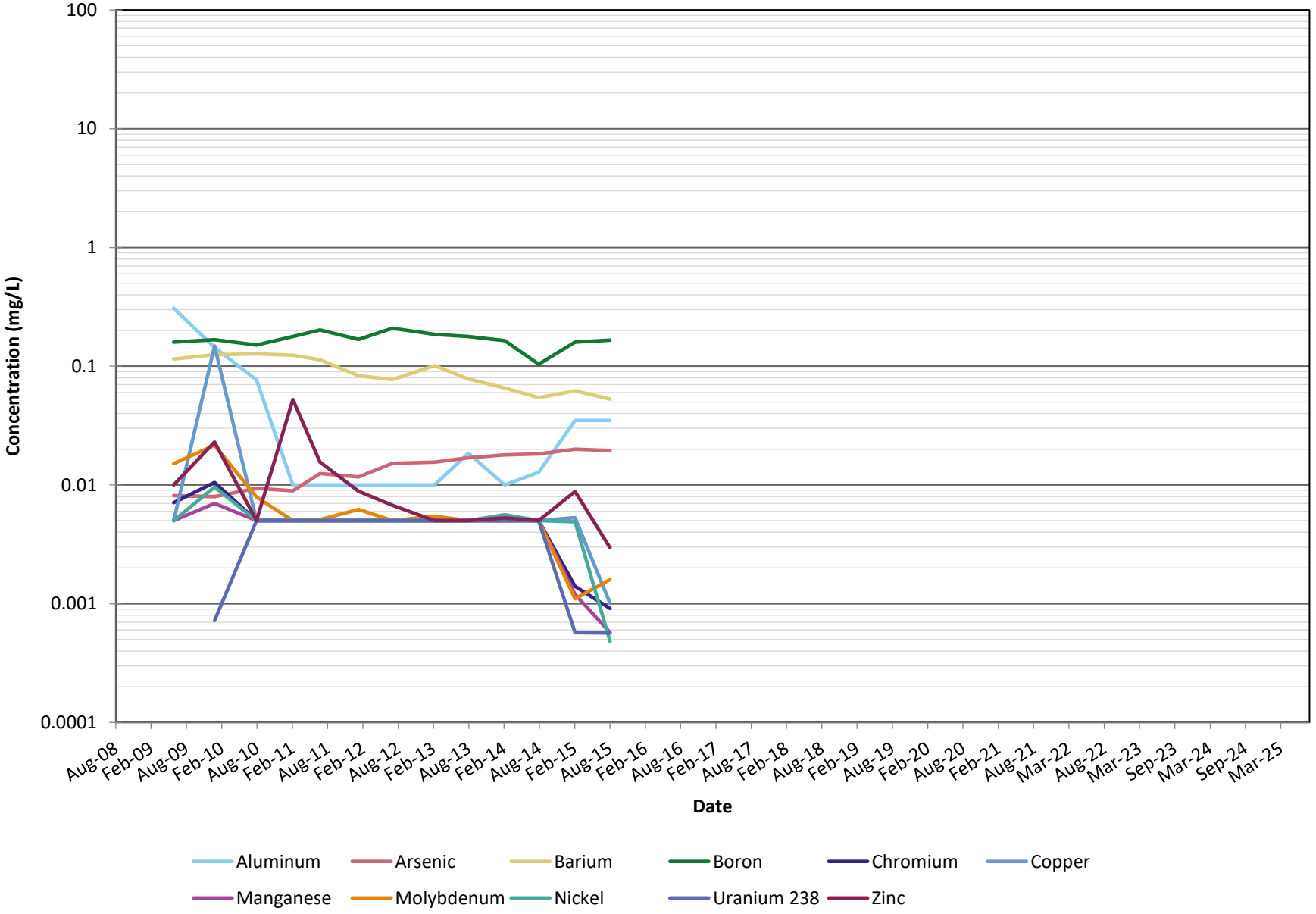


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

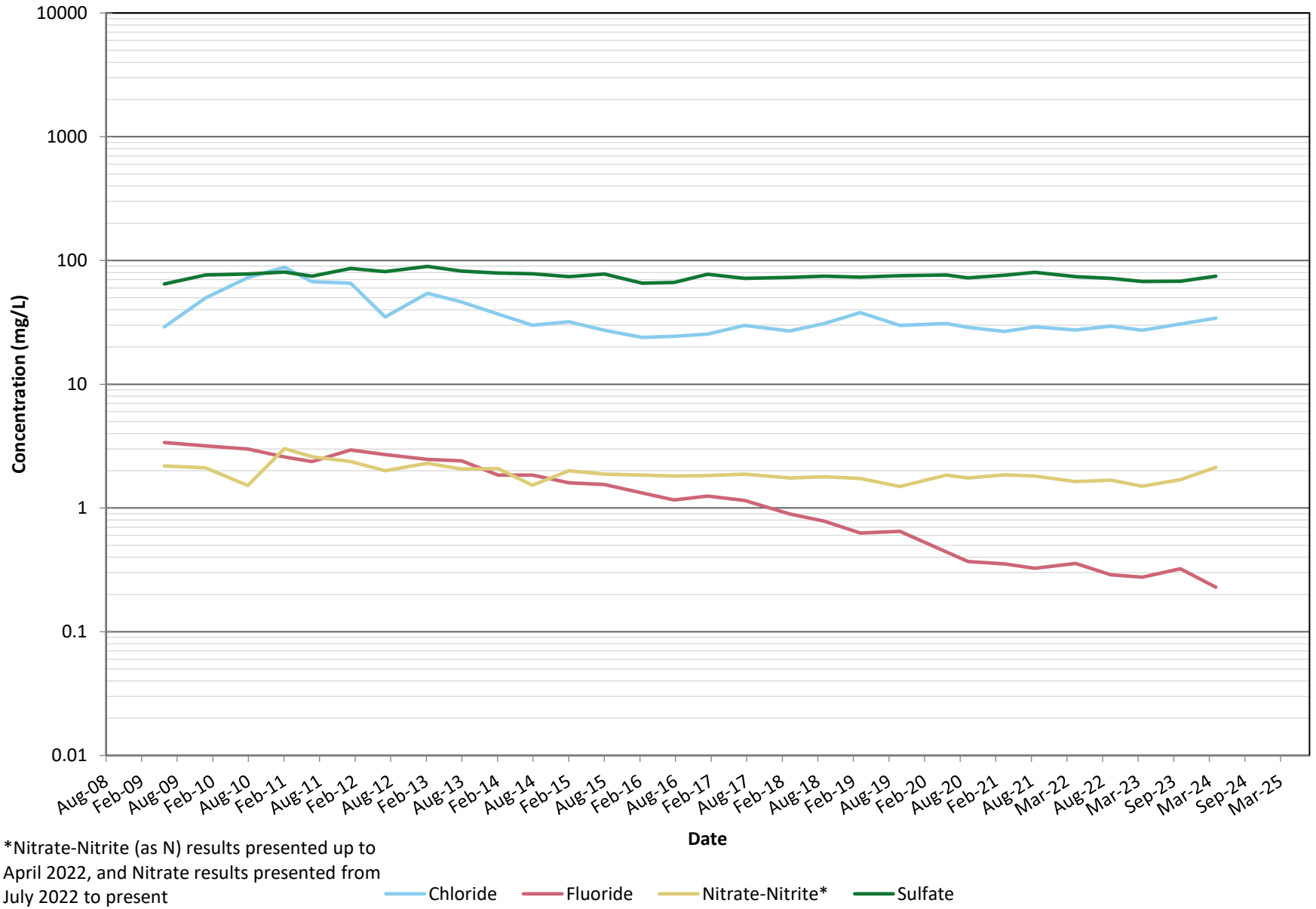
MW-3 TDS CONCENTRATIONS OVER TIME



MW-3 Metals CONCENTRATIONS OVER TIME

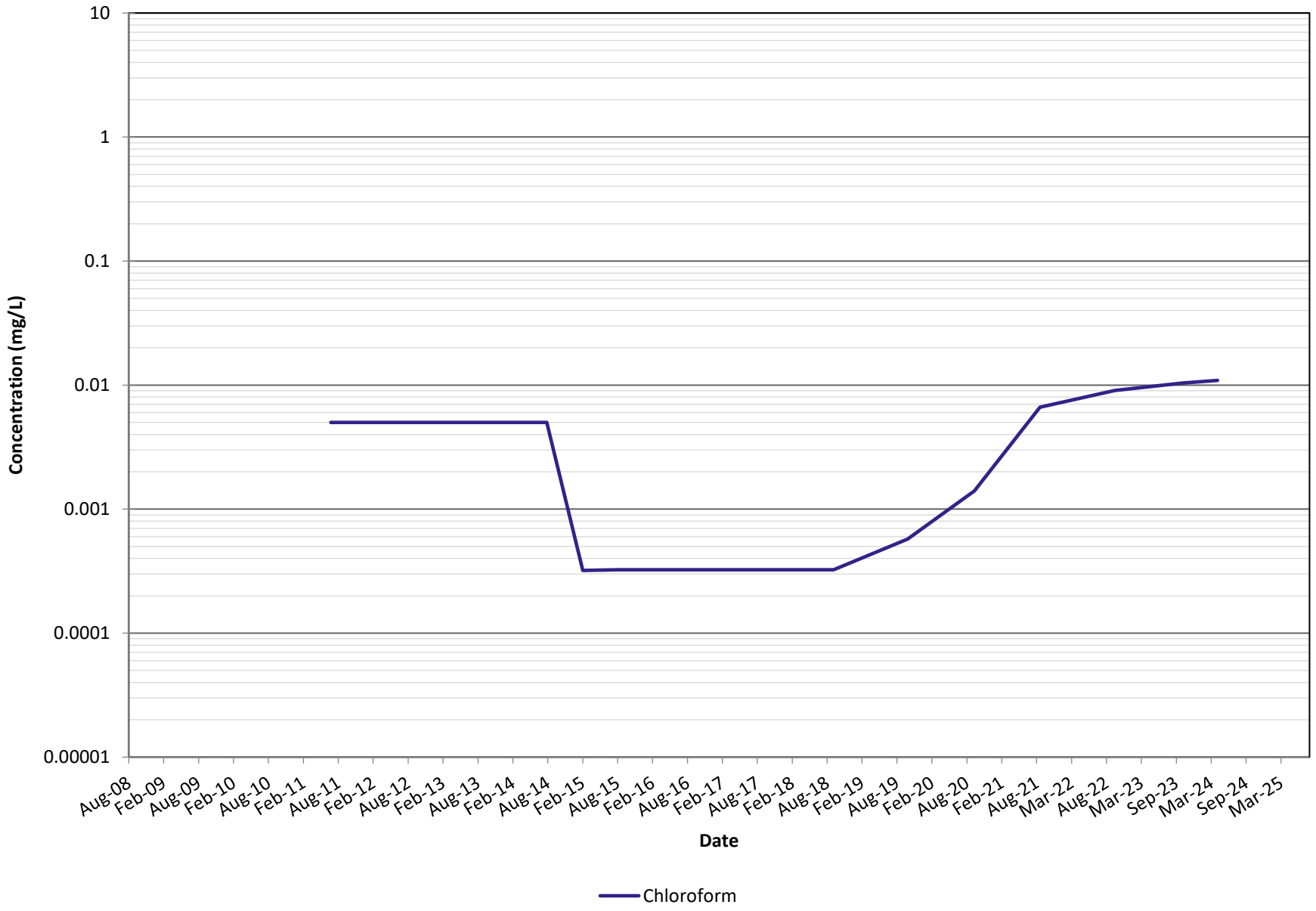


MW-3 Anions CONCENTRATIONS OVER TIME

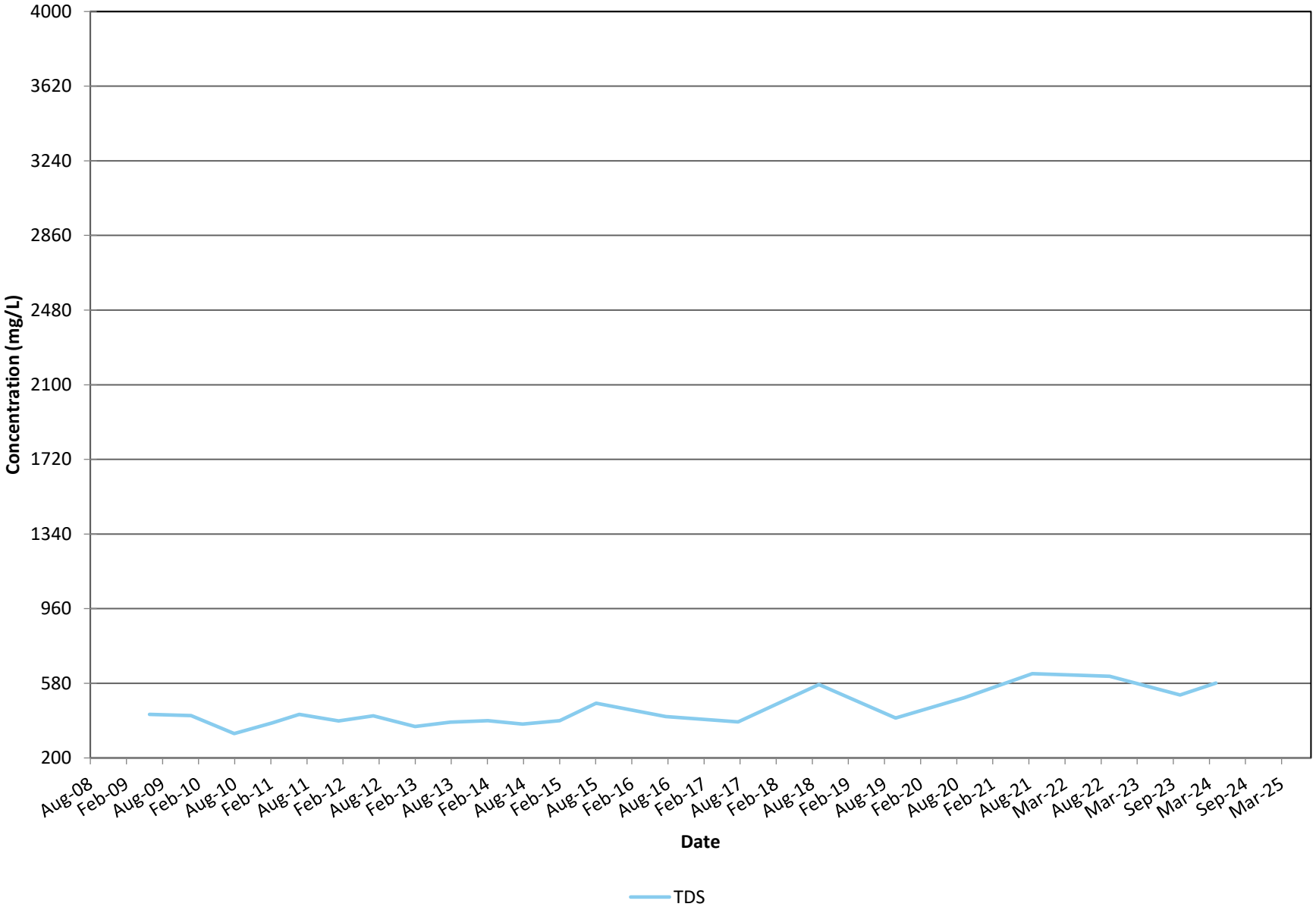


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

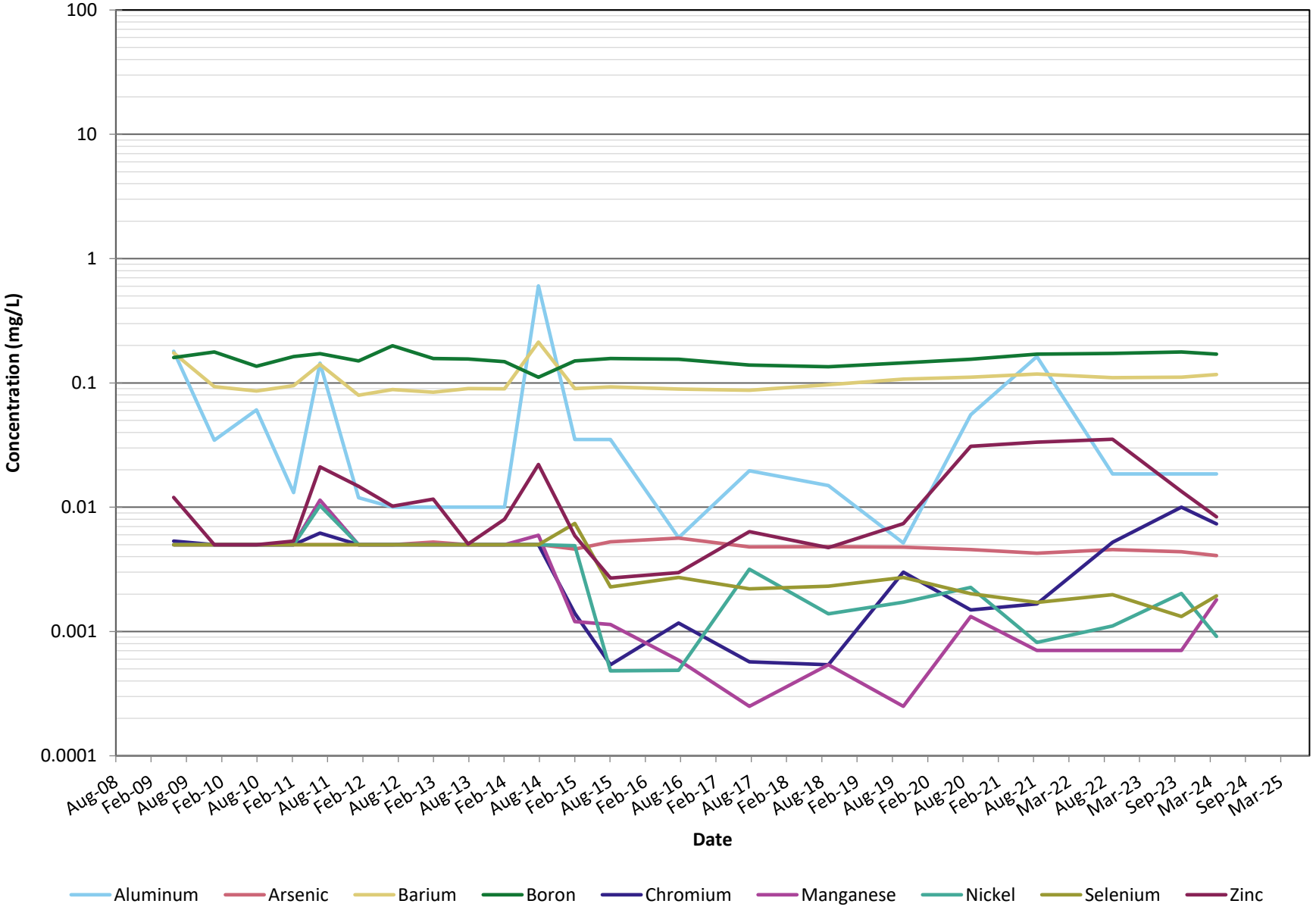
MW-4 VOC CONCENTRATIONS OVER TIME



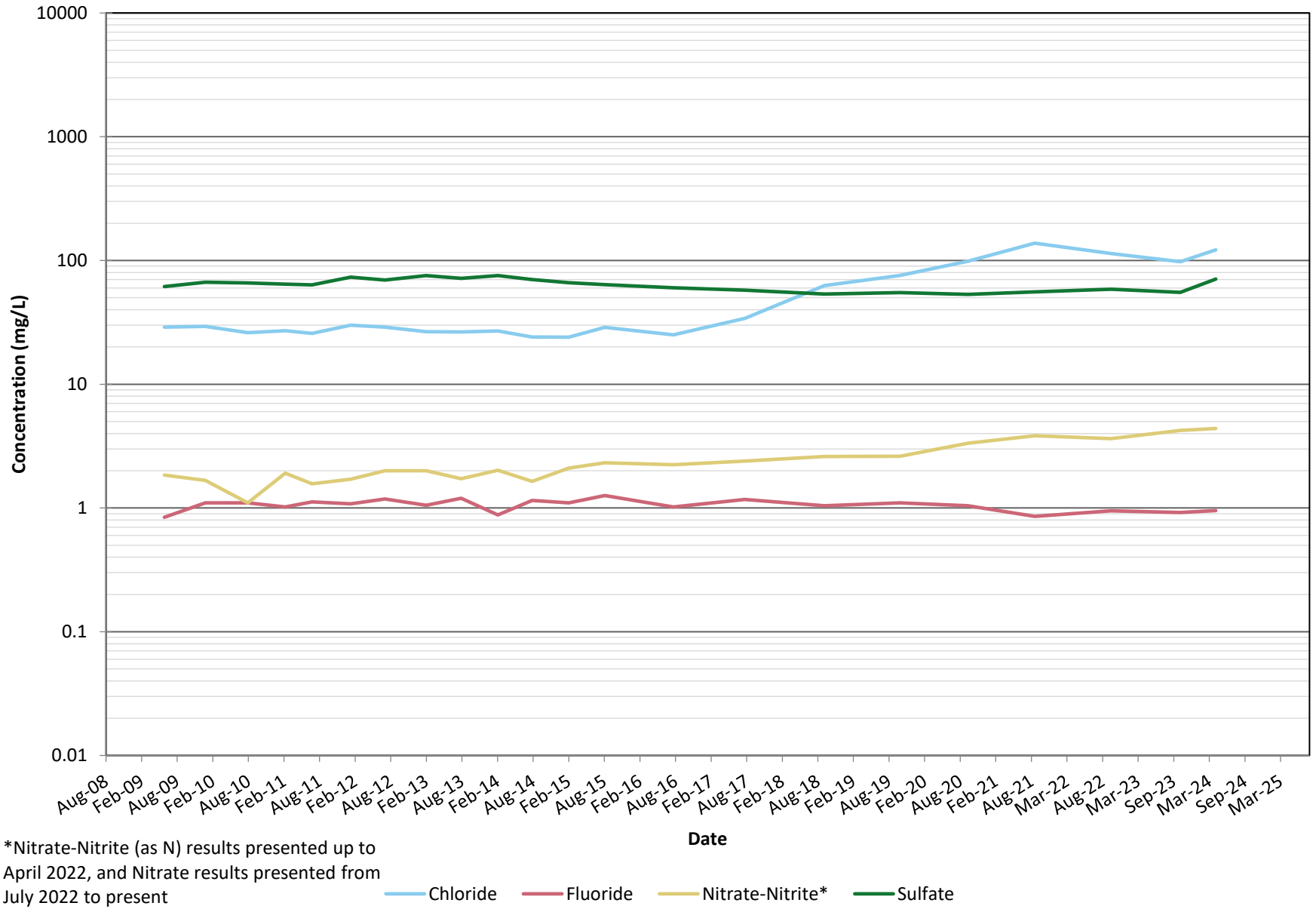
MW-4 TDS CONCENTRATIONS OVER TIME



MW-4 Metals CONCENTRATIONS OVER TIME

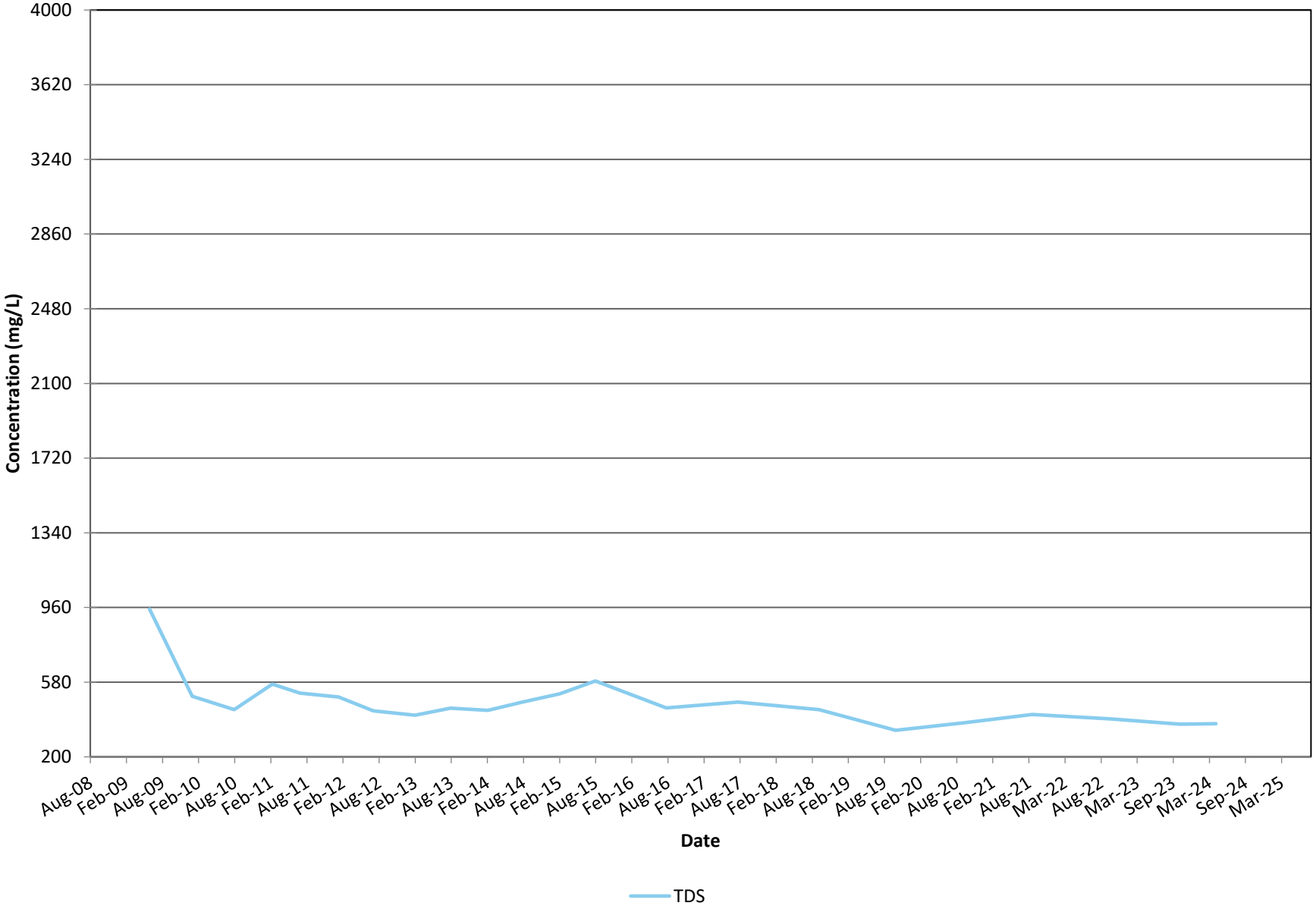


MW-4 Anions CONCENTRATIONS OVER TIME

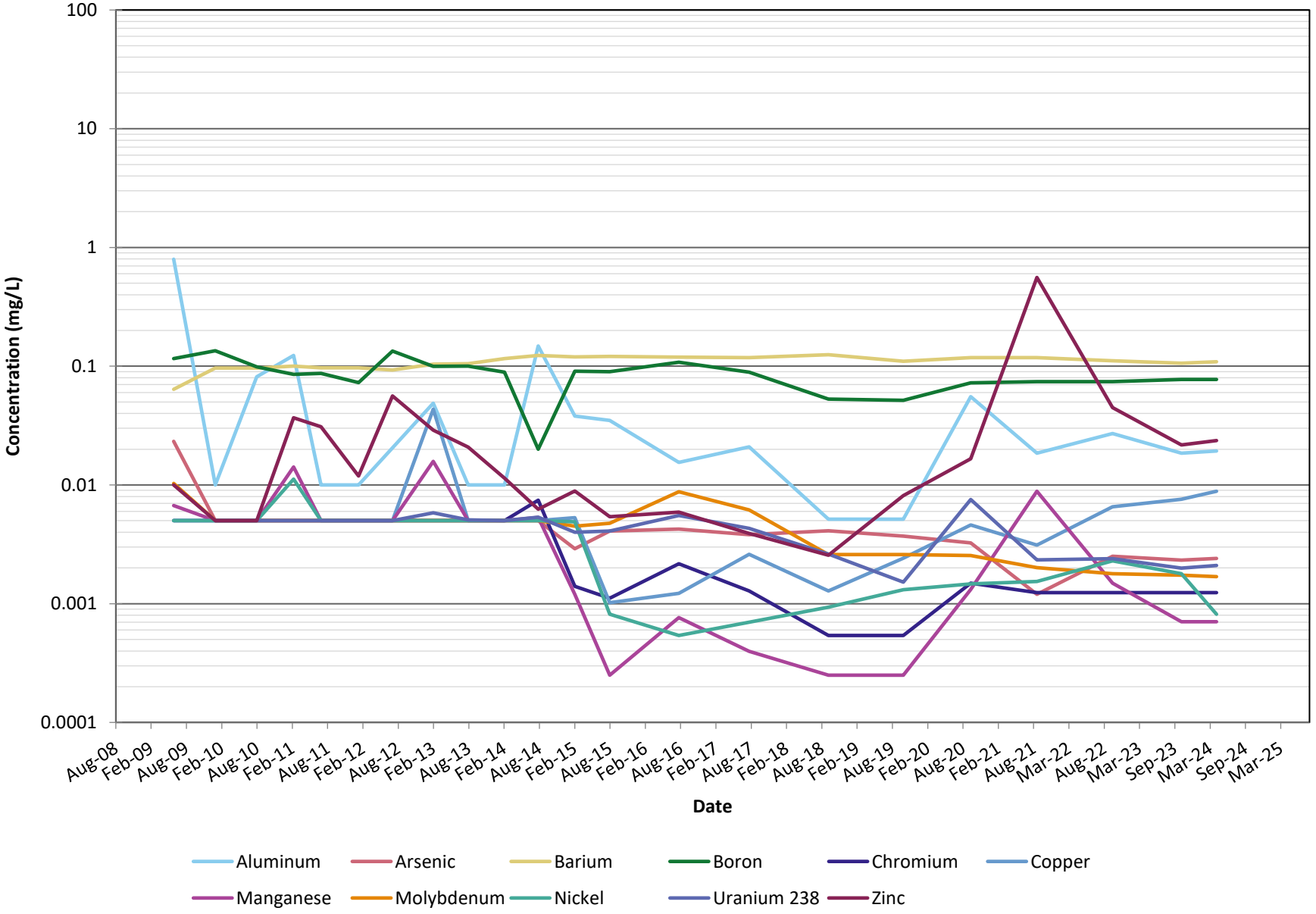


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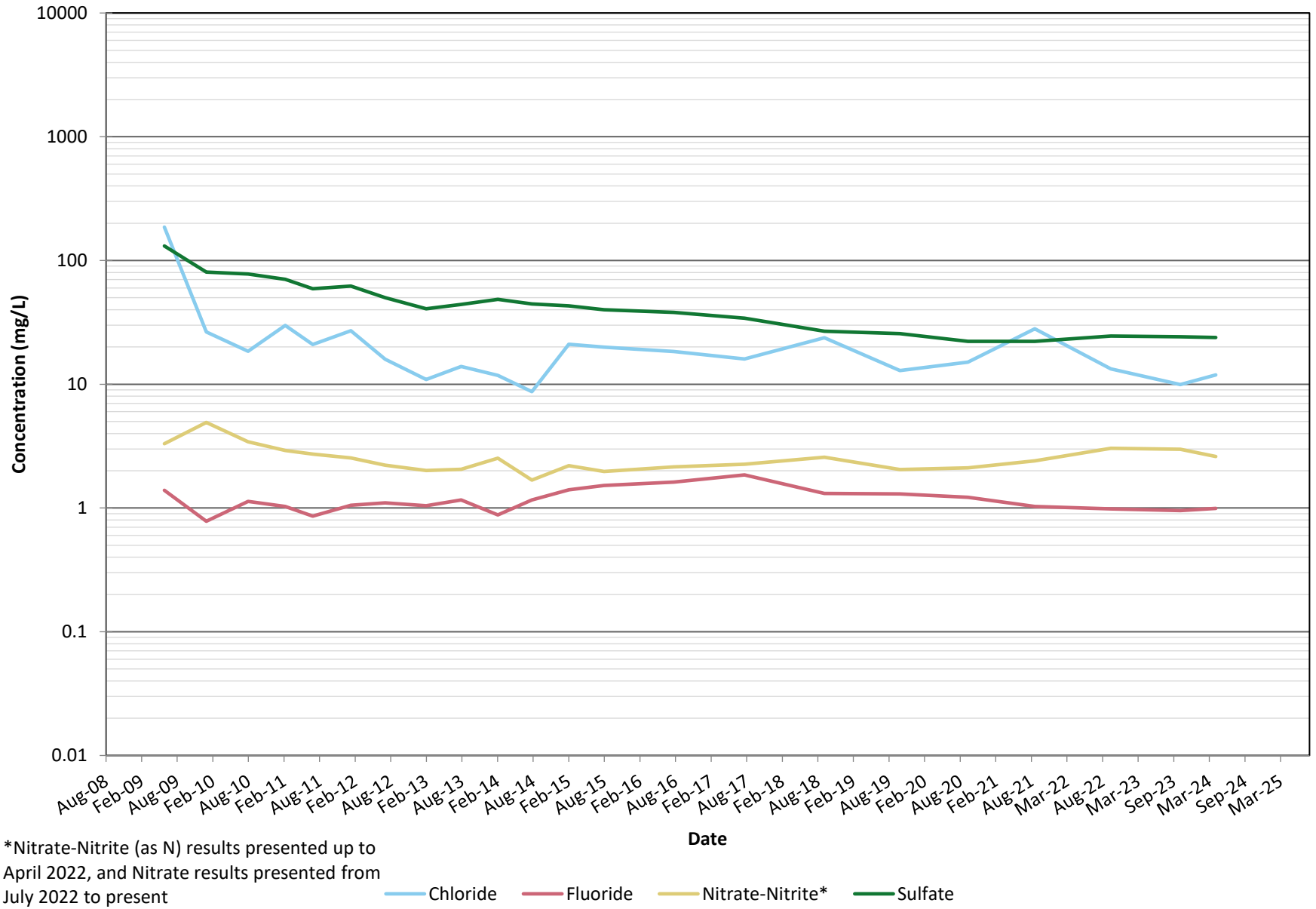
MW-5 TDS CONCENTRATIONS OVER TIME



MW-5 Metals CONCENTRATIONS OVER TIME



MW-5 Anions CONCENTRATIONS OVER TIME

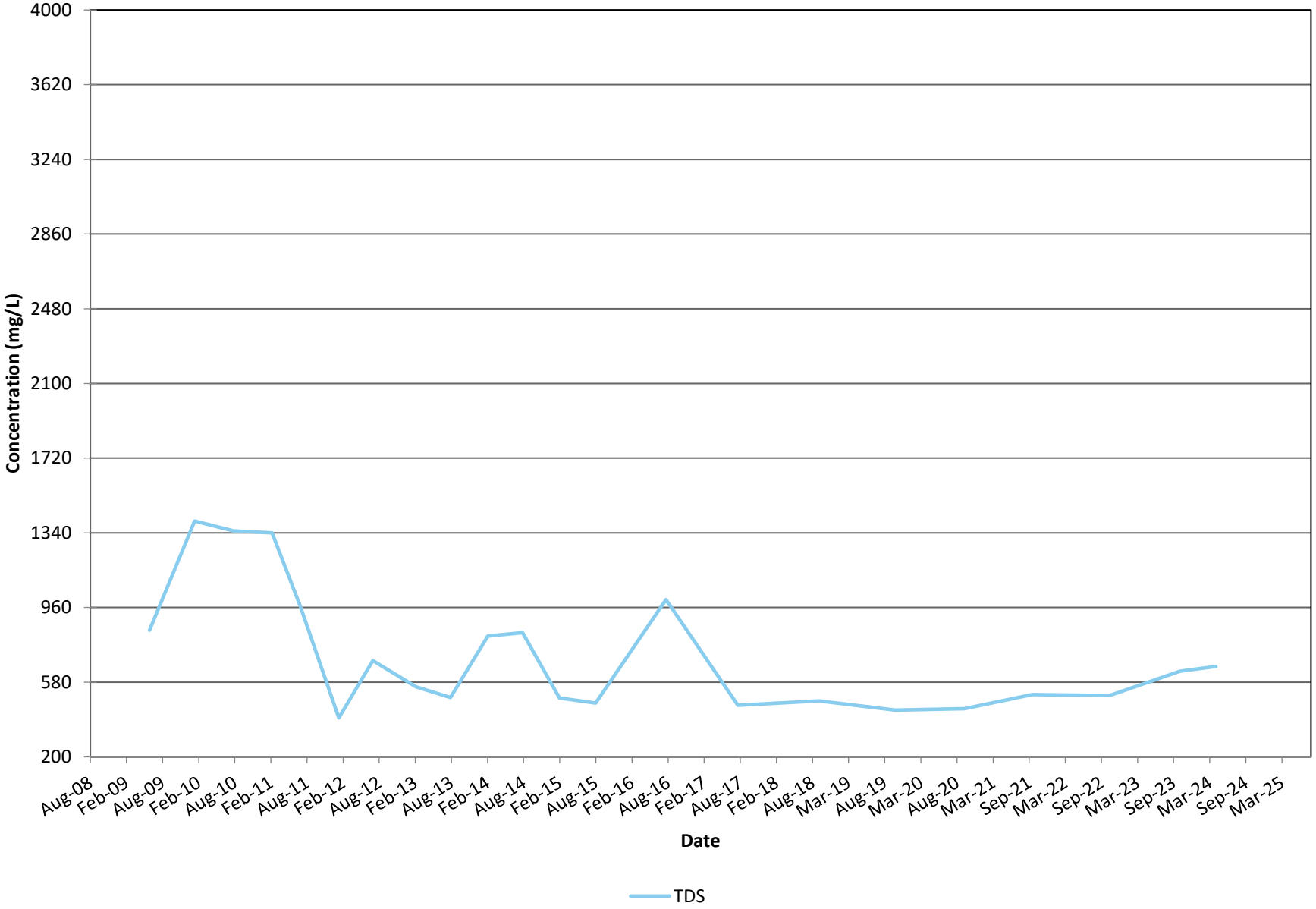


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

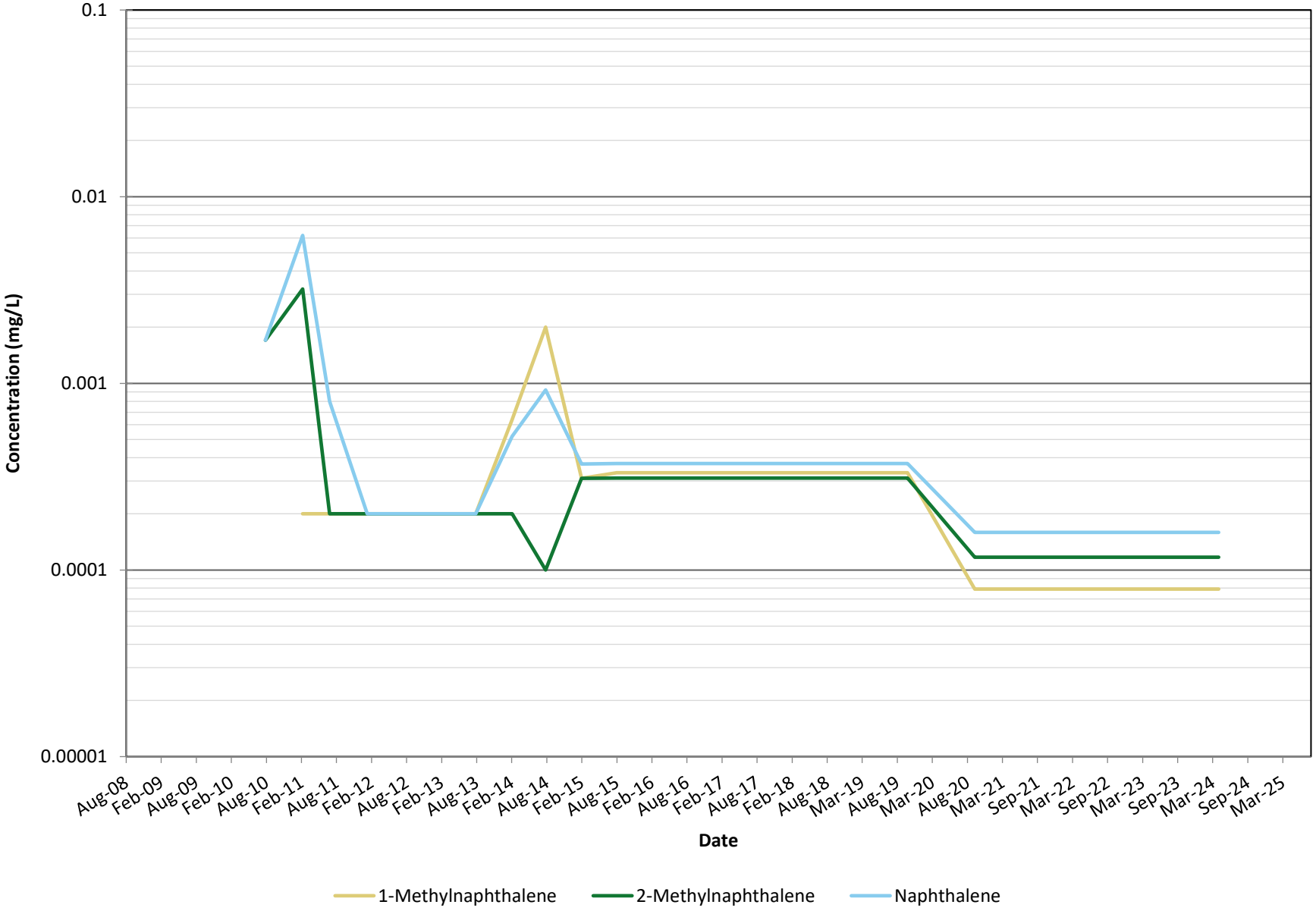
MW-6 VOC CONCENTRATIONS OVER TIME



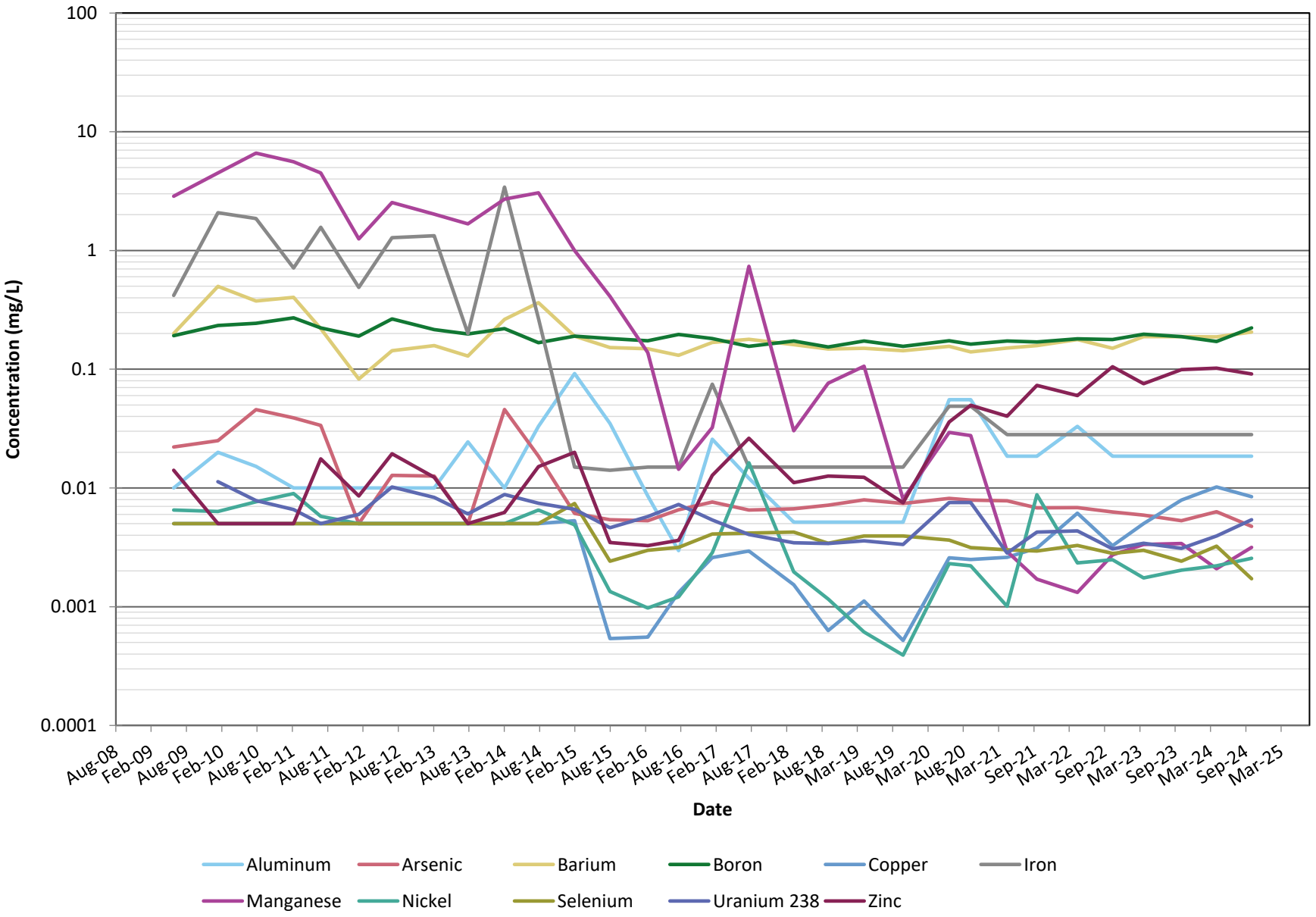
MW-6 TDS CONCENTRATIONS OVER TIME



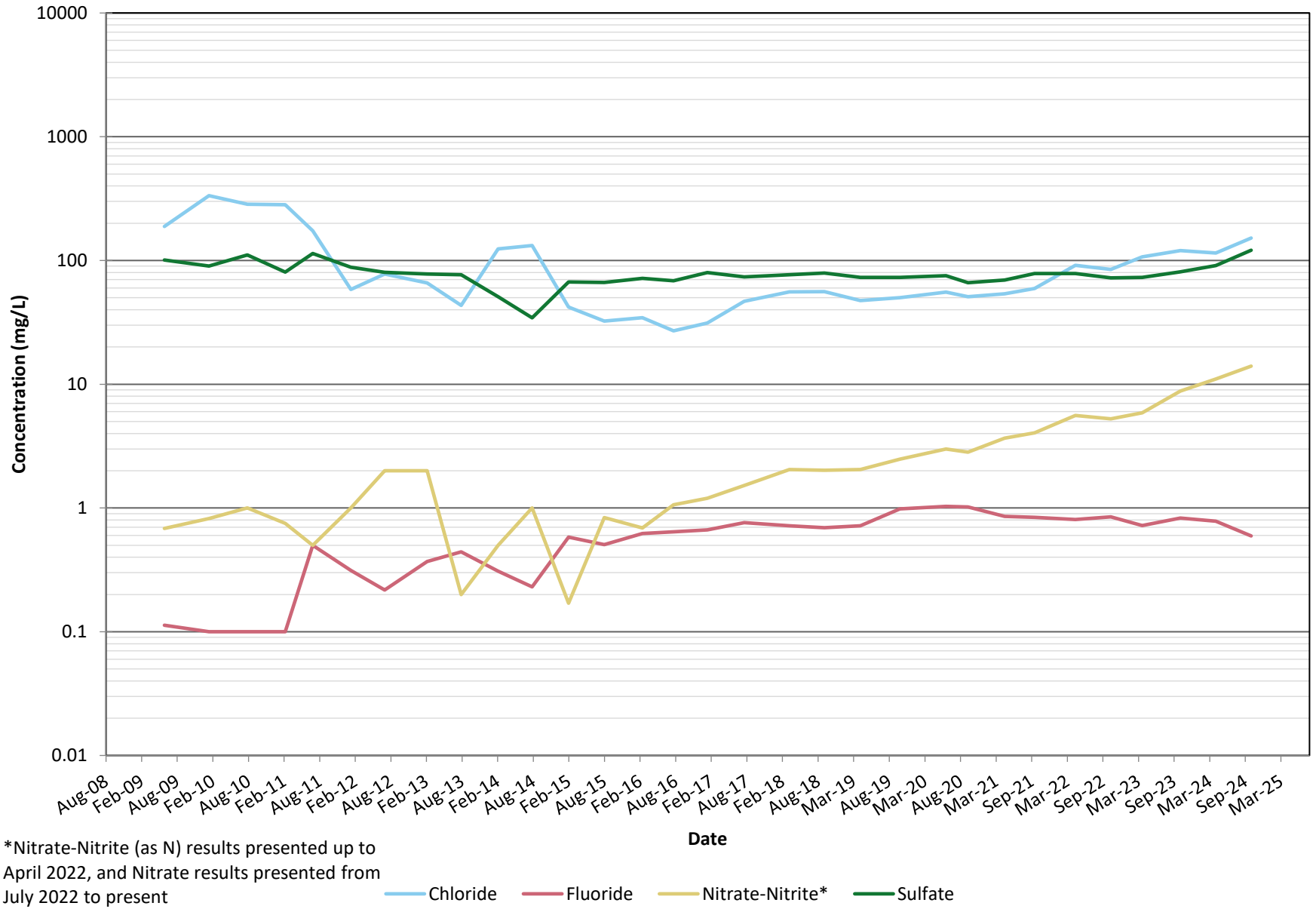
MW-6 SVOC CONCENTRATIONS OVER TIME



MW-6 Metals CONCENTRATIONS OVER TIME

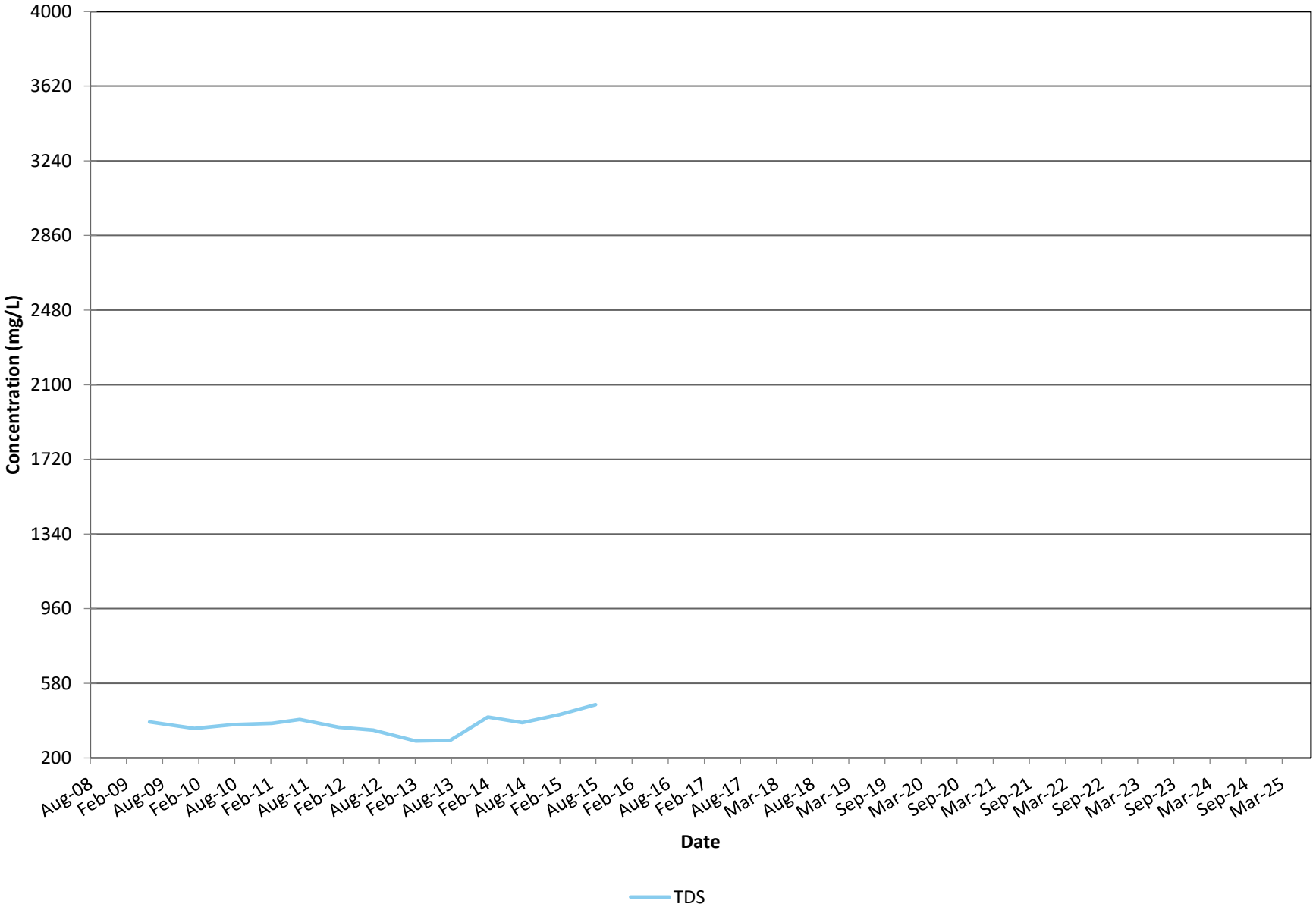


MW-6 Anions CONCENTRATIONS OVER TIME

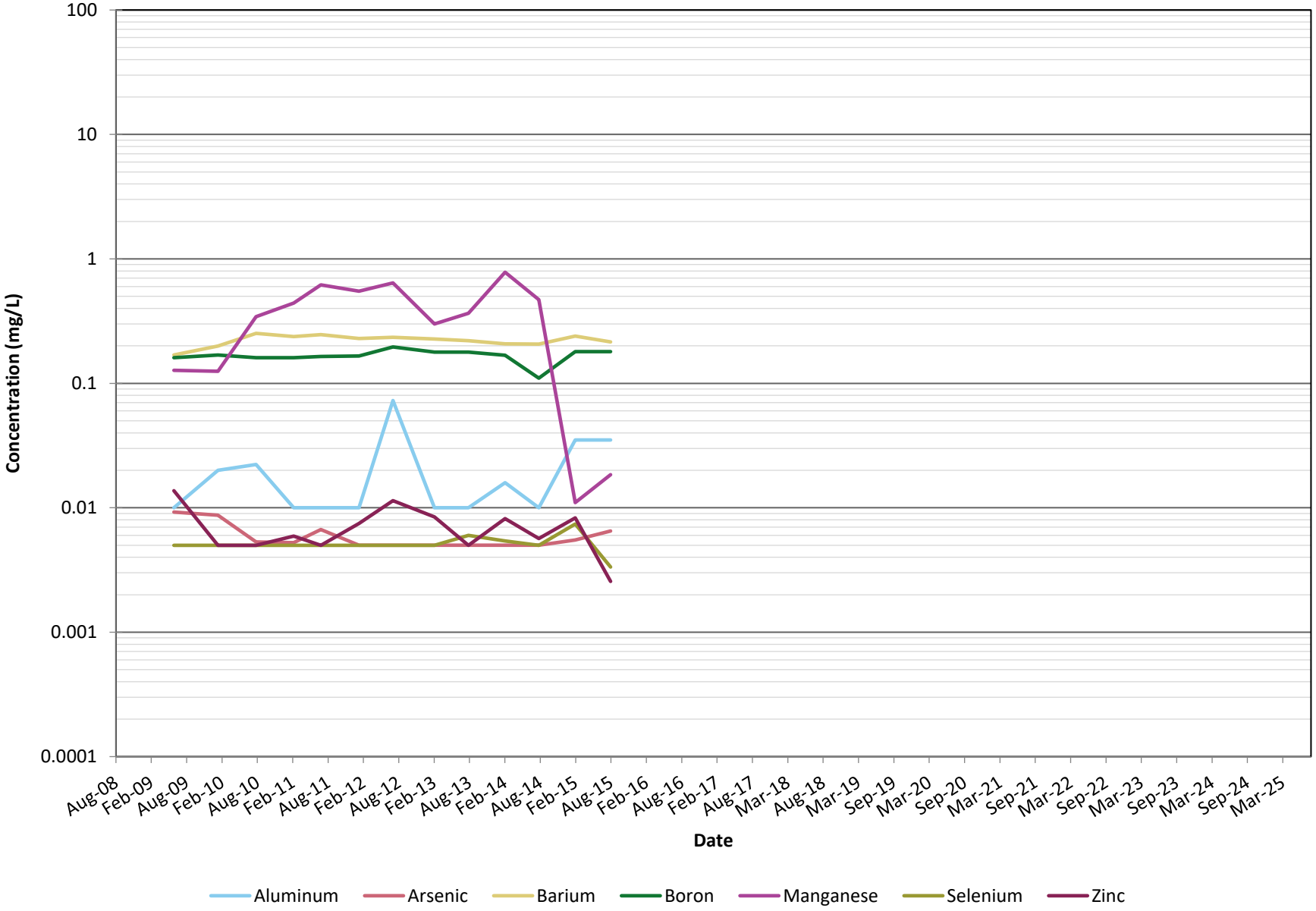


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

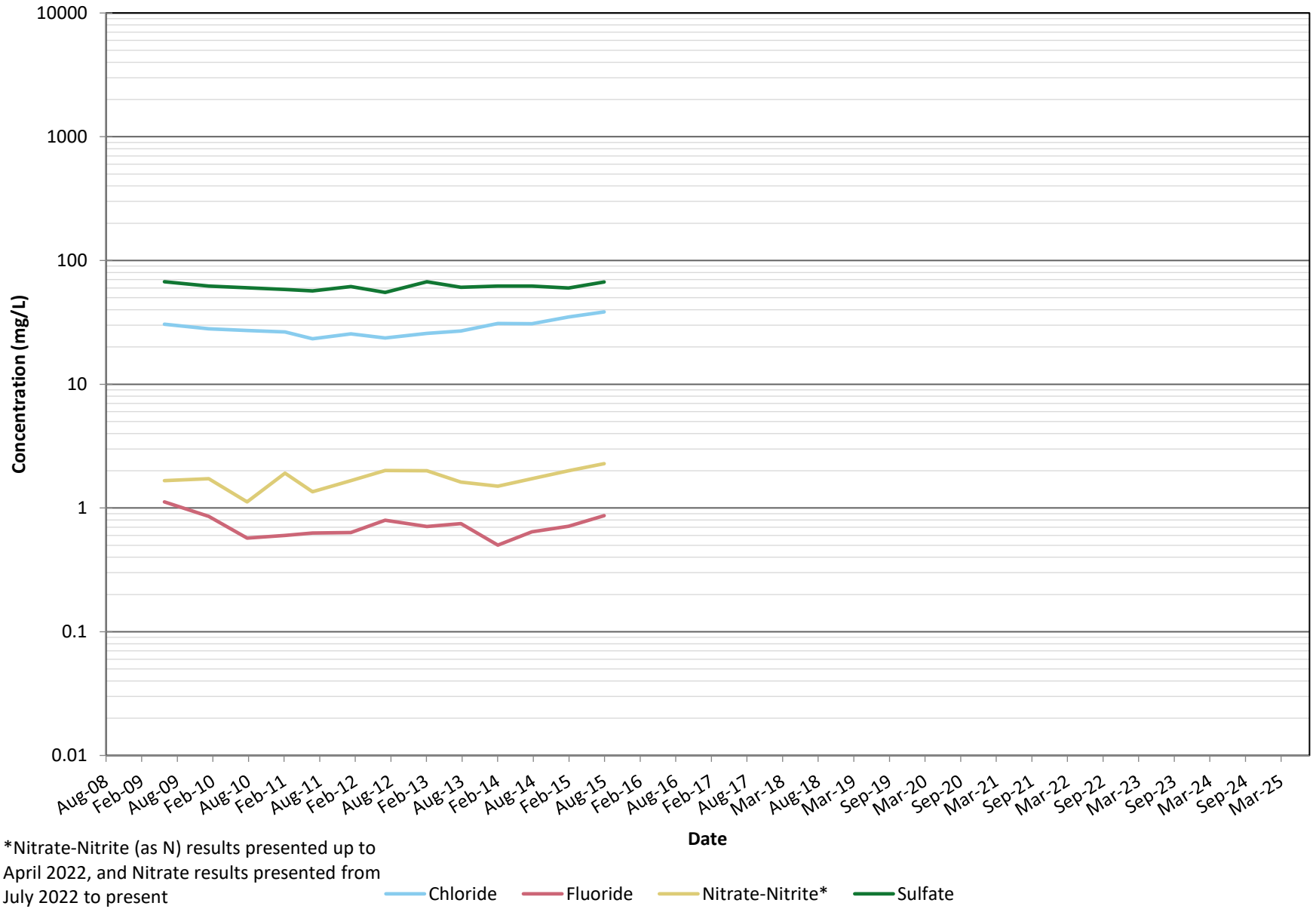
MW-7 TDS CONCENTRATIONS OVER TIME



MW-7 Metals CONCENTRATIONS OVER TIME

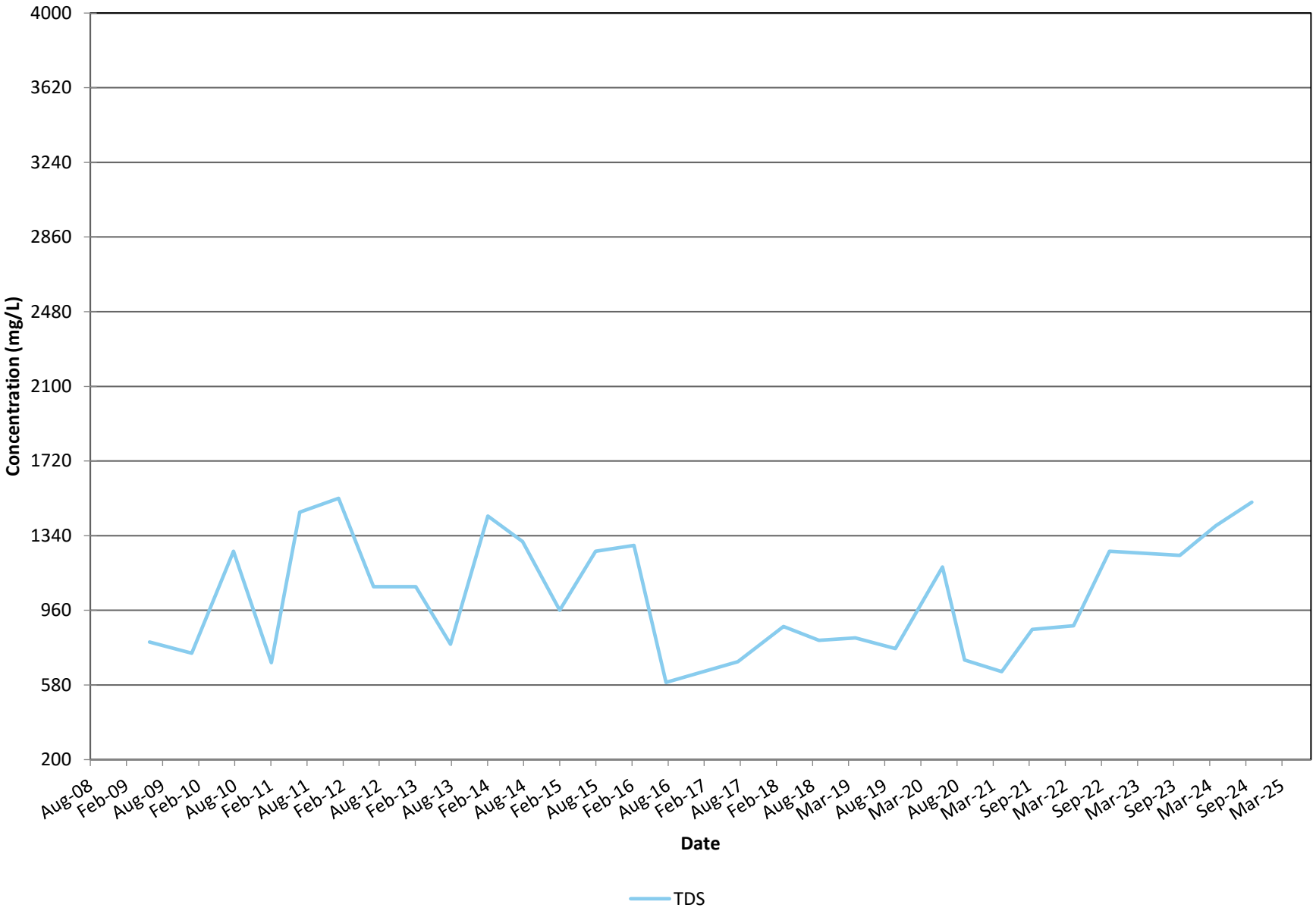


MW-7 Anions CONCENTRATIONS OVER TIME

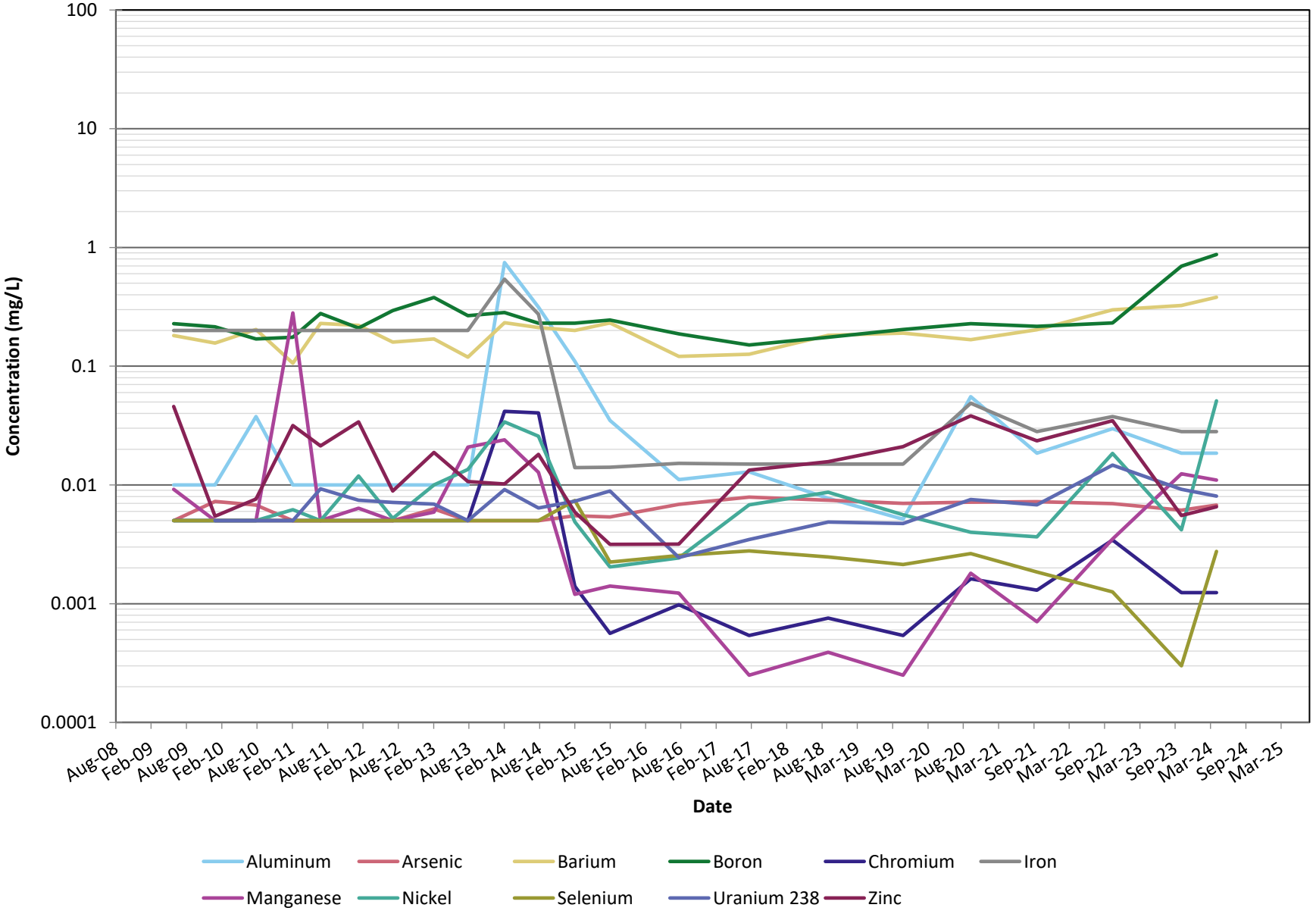


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

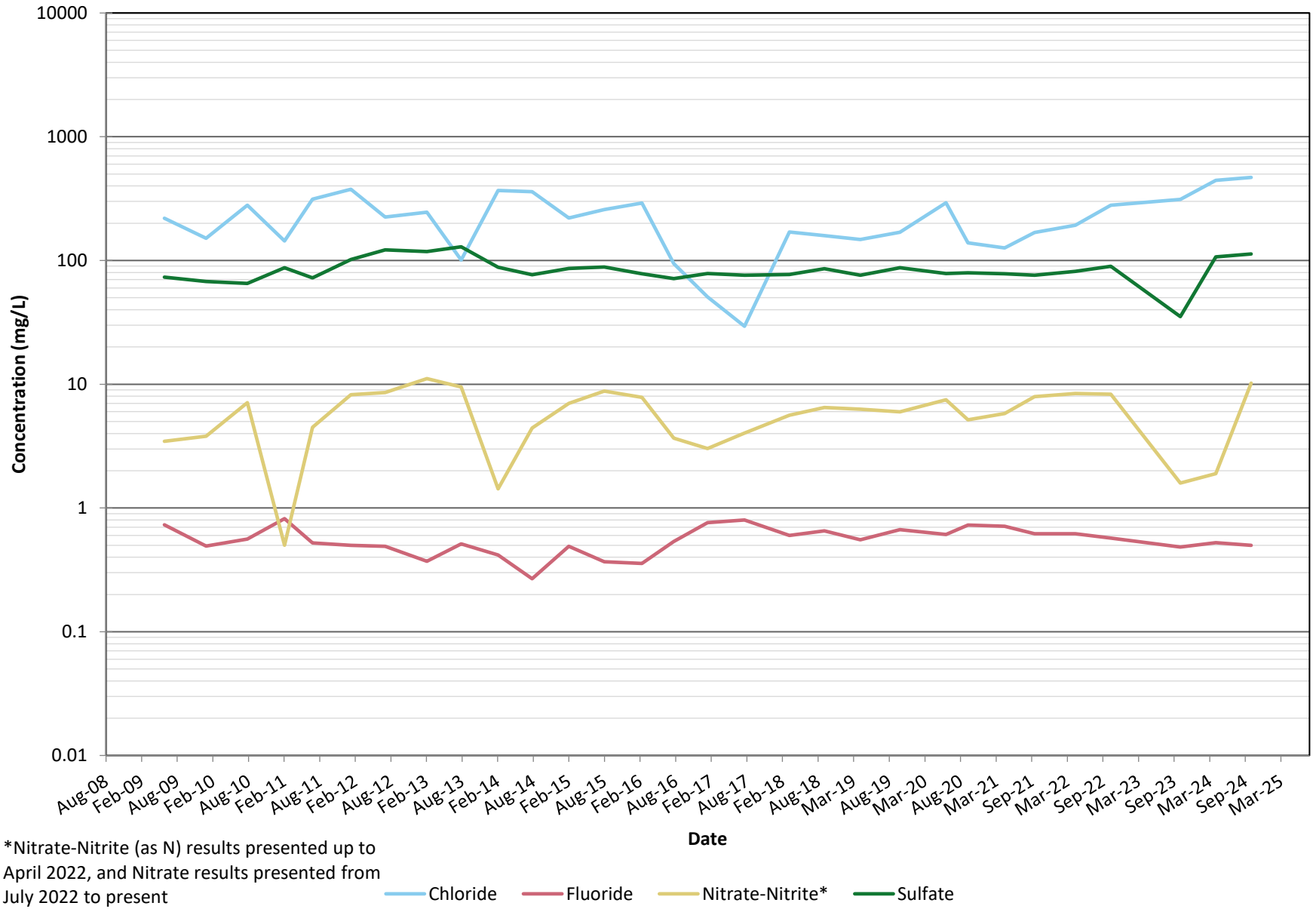
MW-8 TDS CONCENTRATIONS OVER TIME



MW-8 Metals CONCENTRATIONS OVER TIME

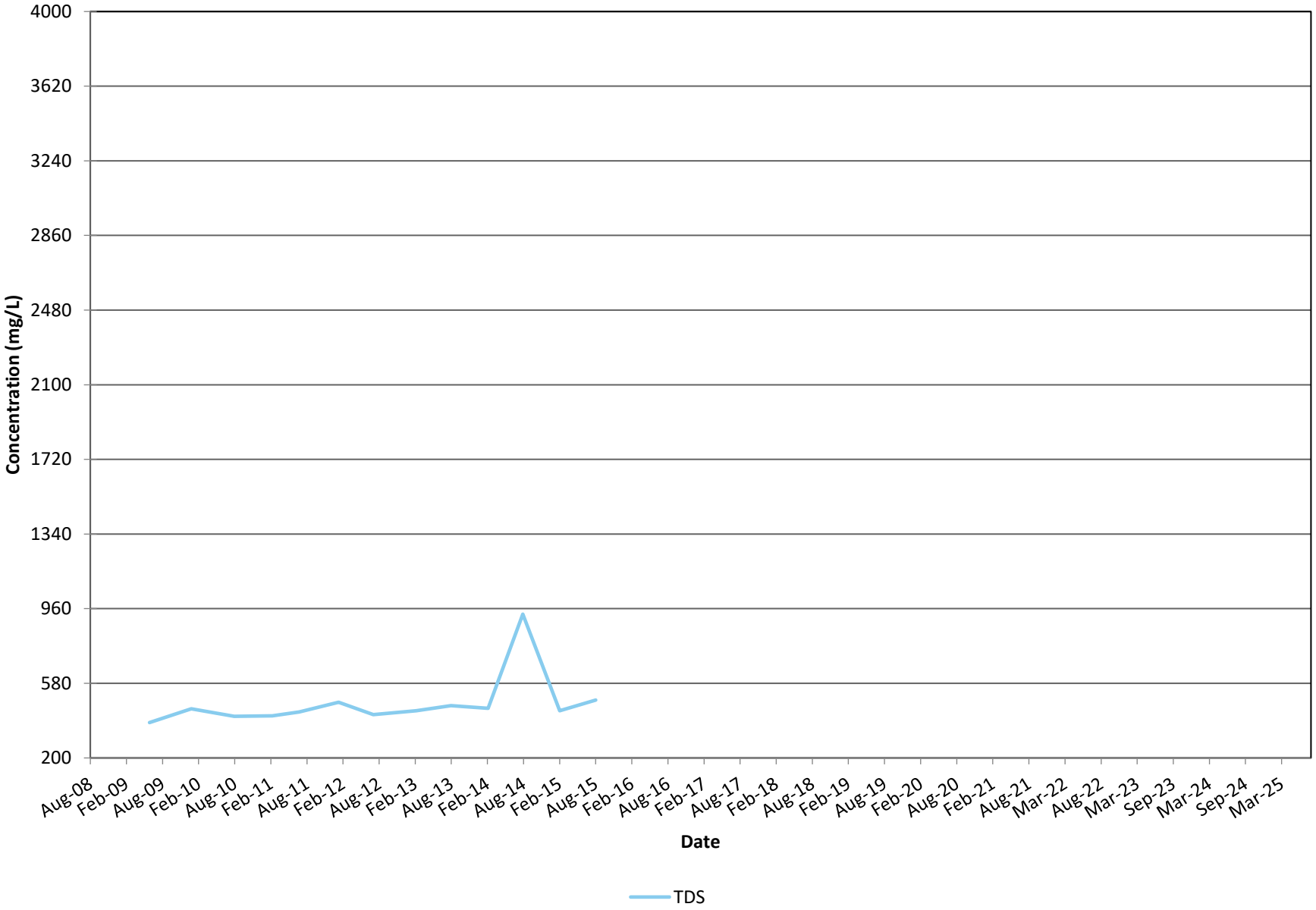


MW-8 Anions CONCENTRATIONS OVER TIME

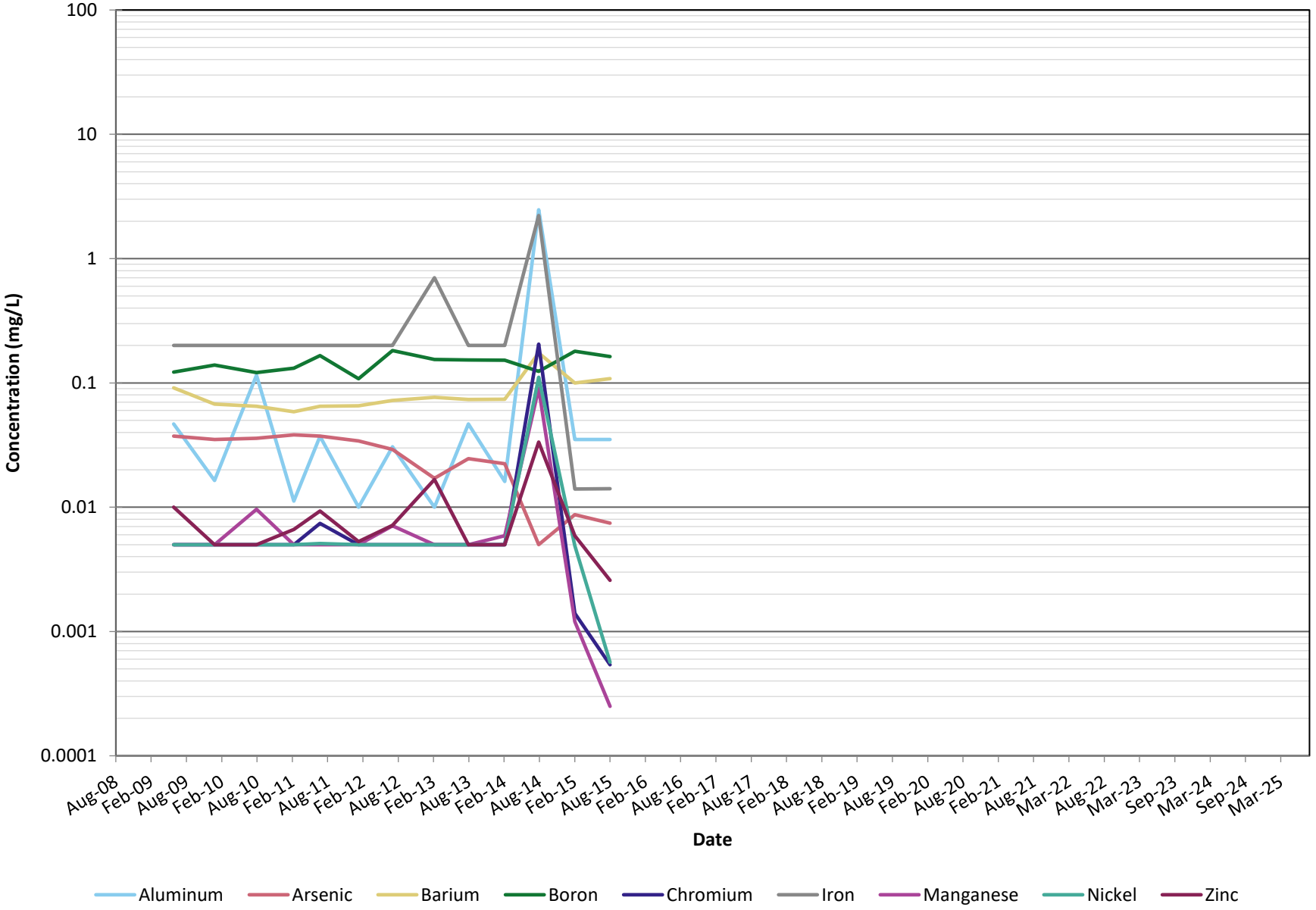


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

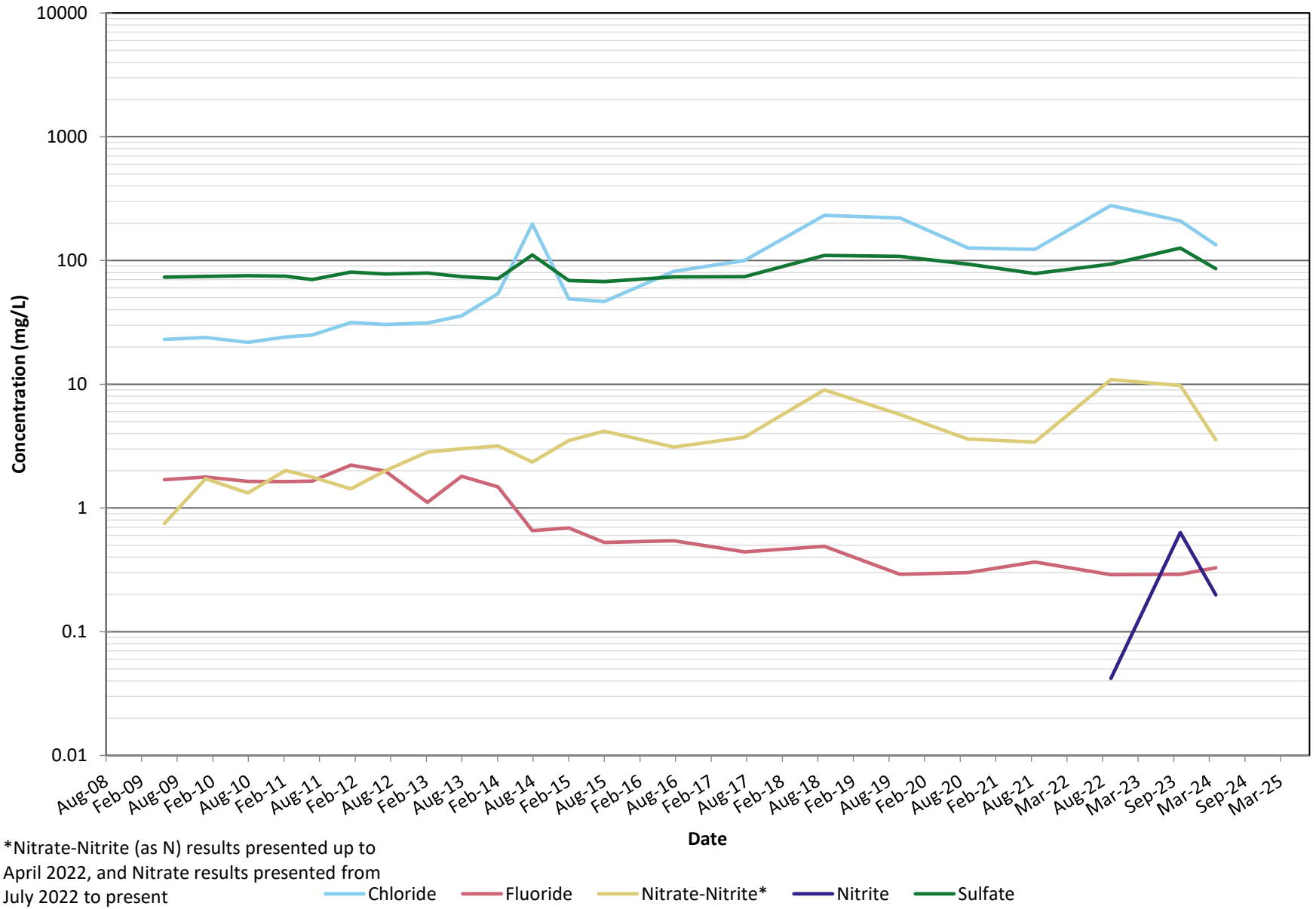
MW-9 TDS CONCENTRATIONS OVER TIME



MW-9 Metals CONCENTRATIONS OVER TIME

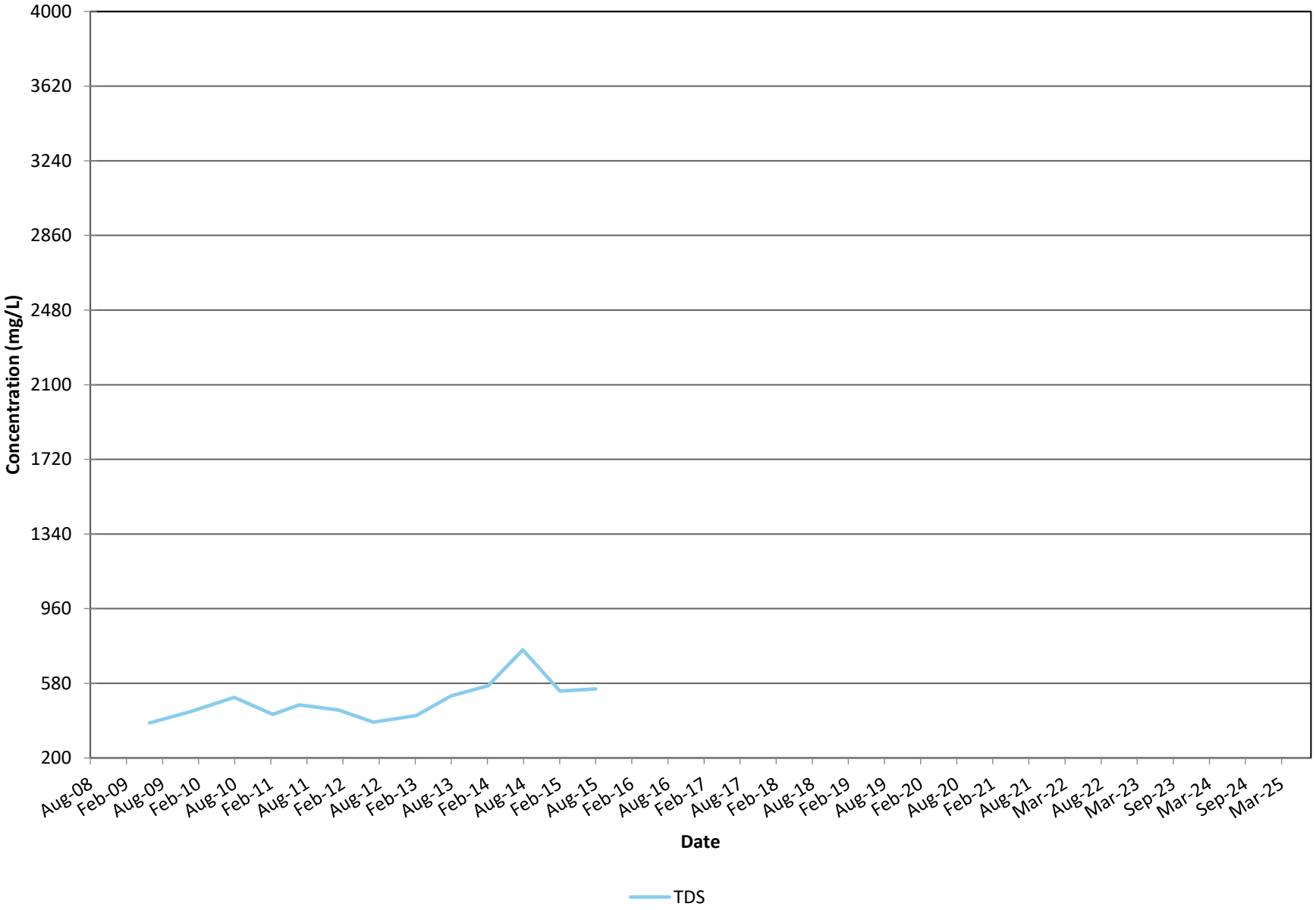


MW-9 Anions CONCENTRATIONS OVER TIME

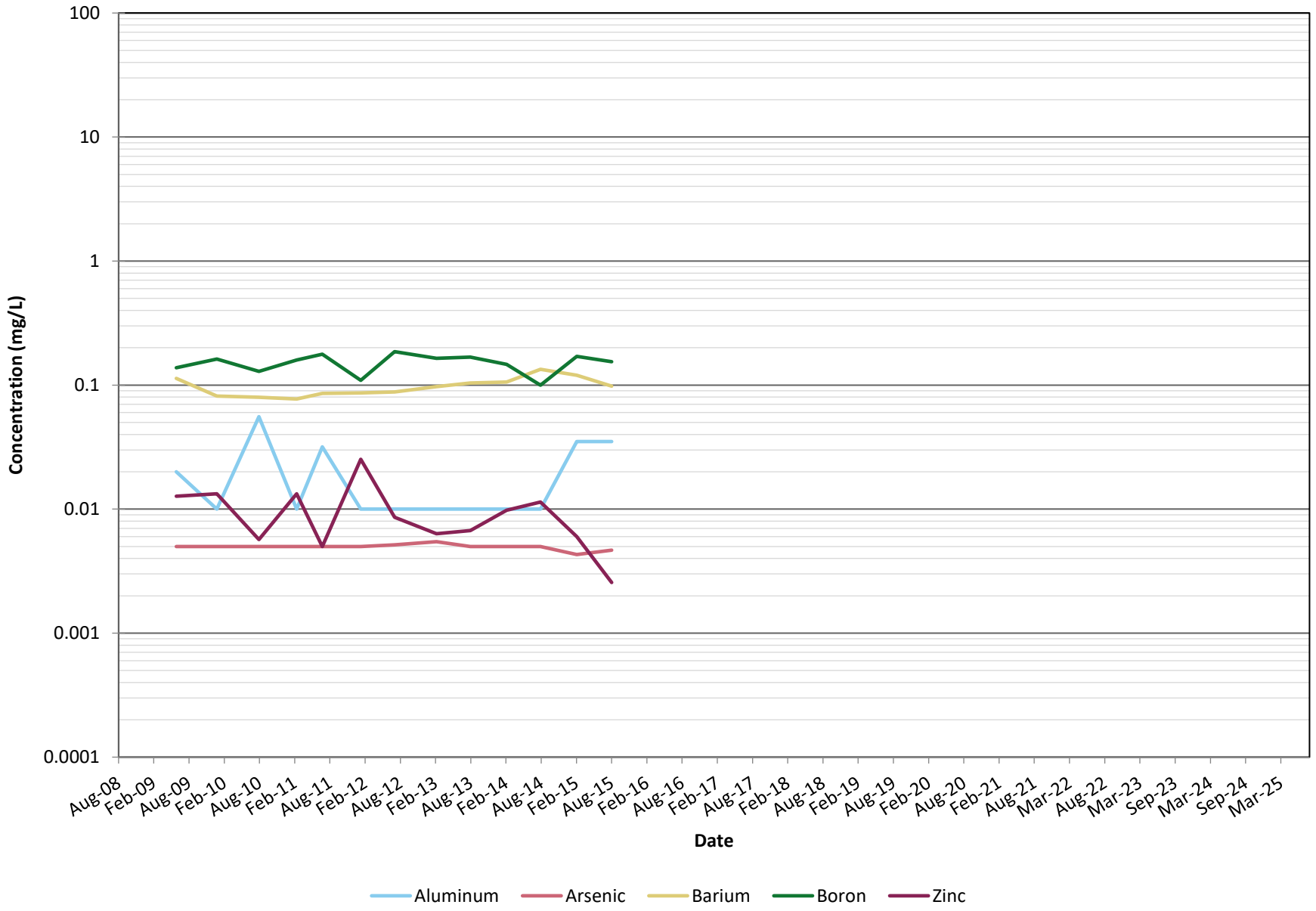


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

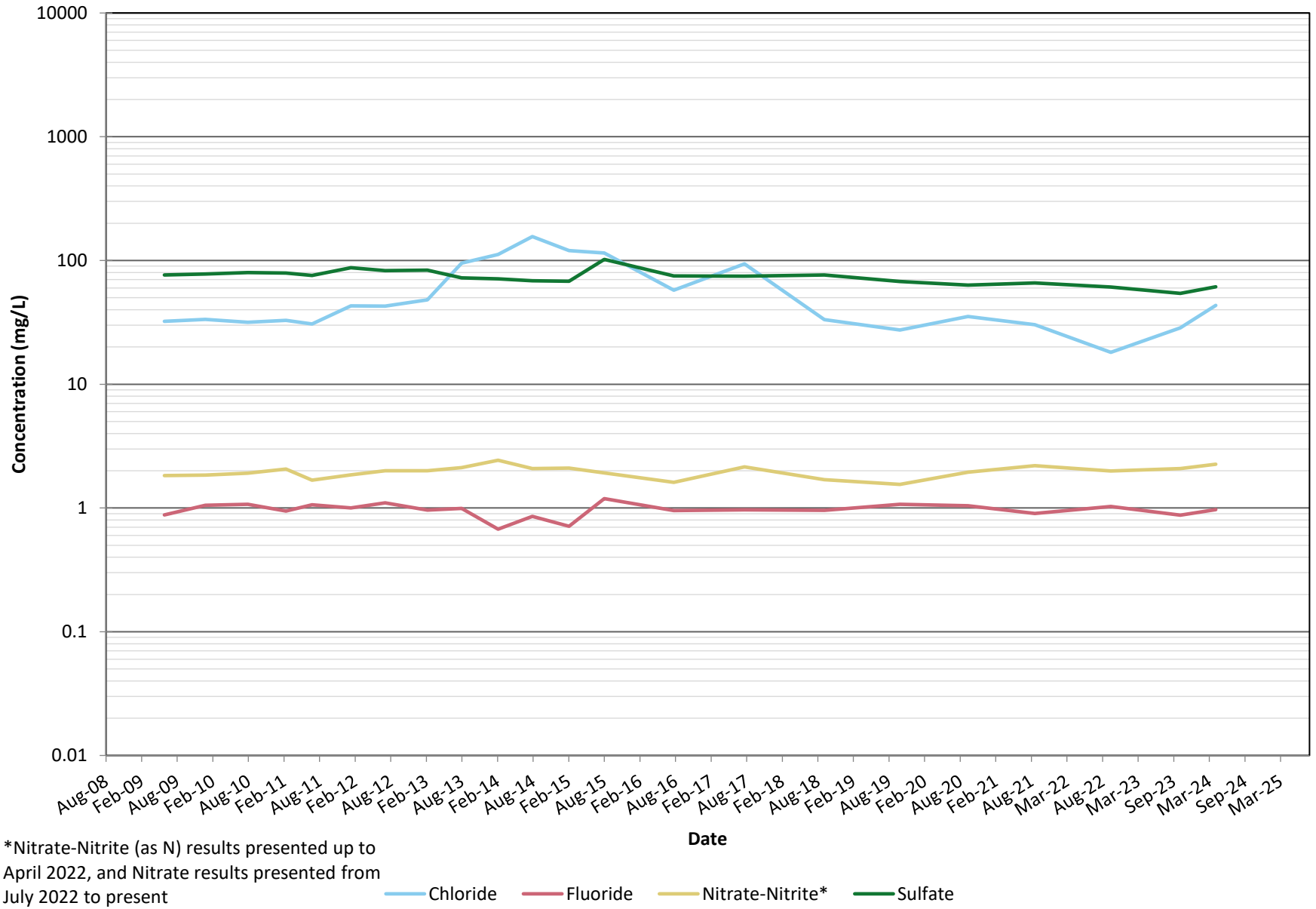
MW-10 TDS CONCENTRATIONS OVER TIME



MW-10 Metals CONCENTRATIONS OVER TIME

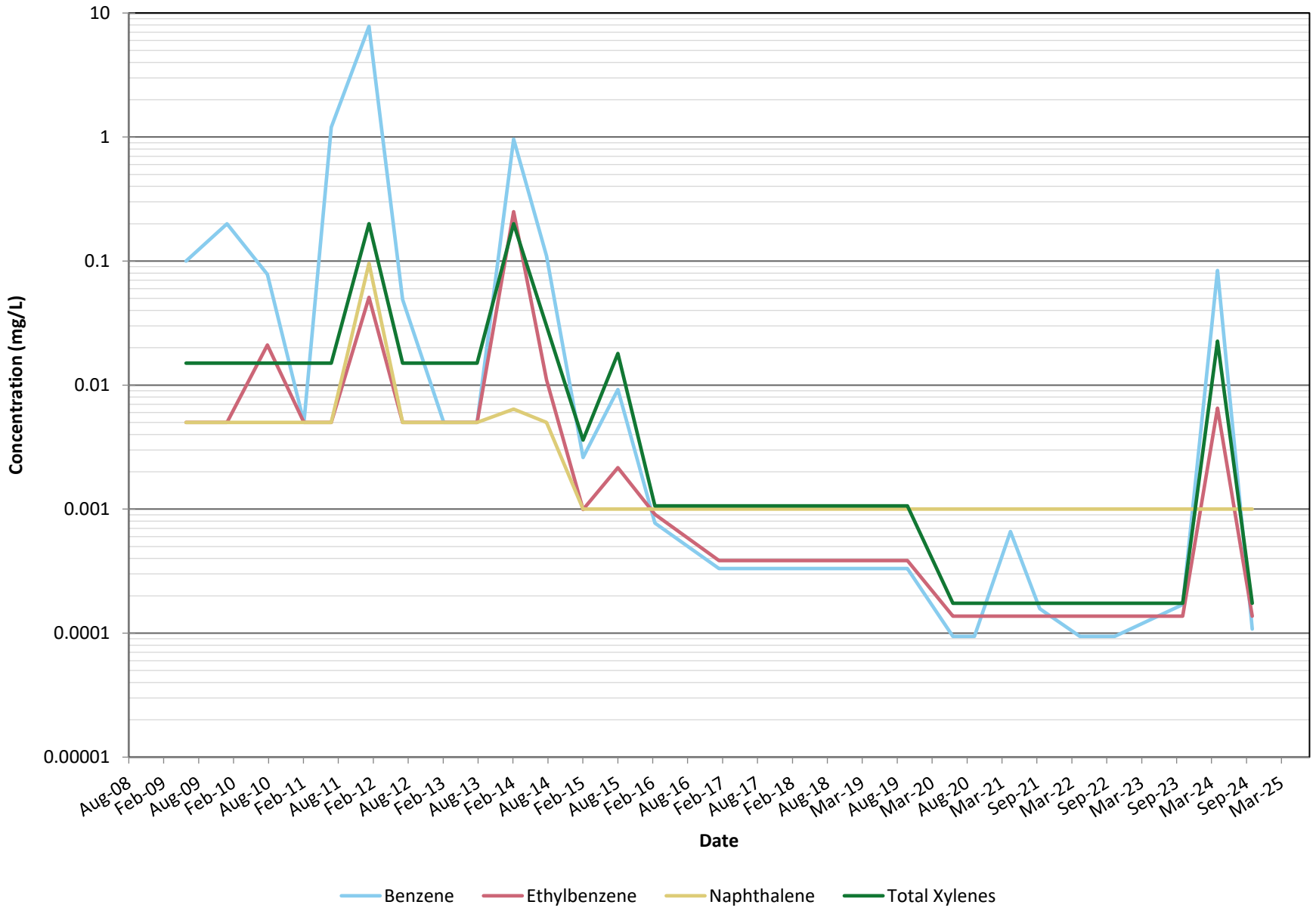


MW-10 Anions CONCENTRATIONS OVER TIME

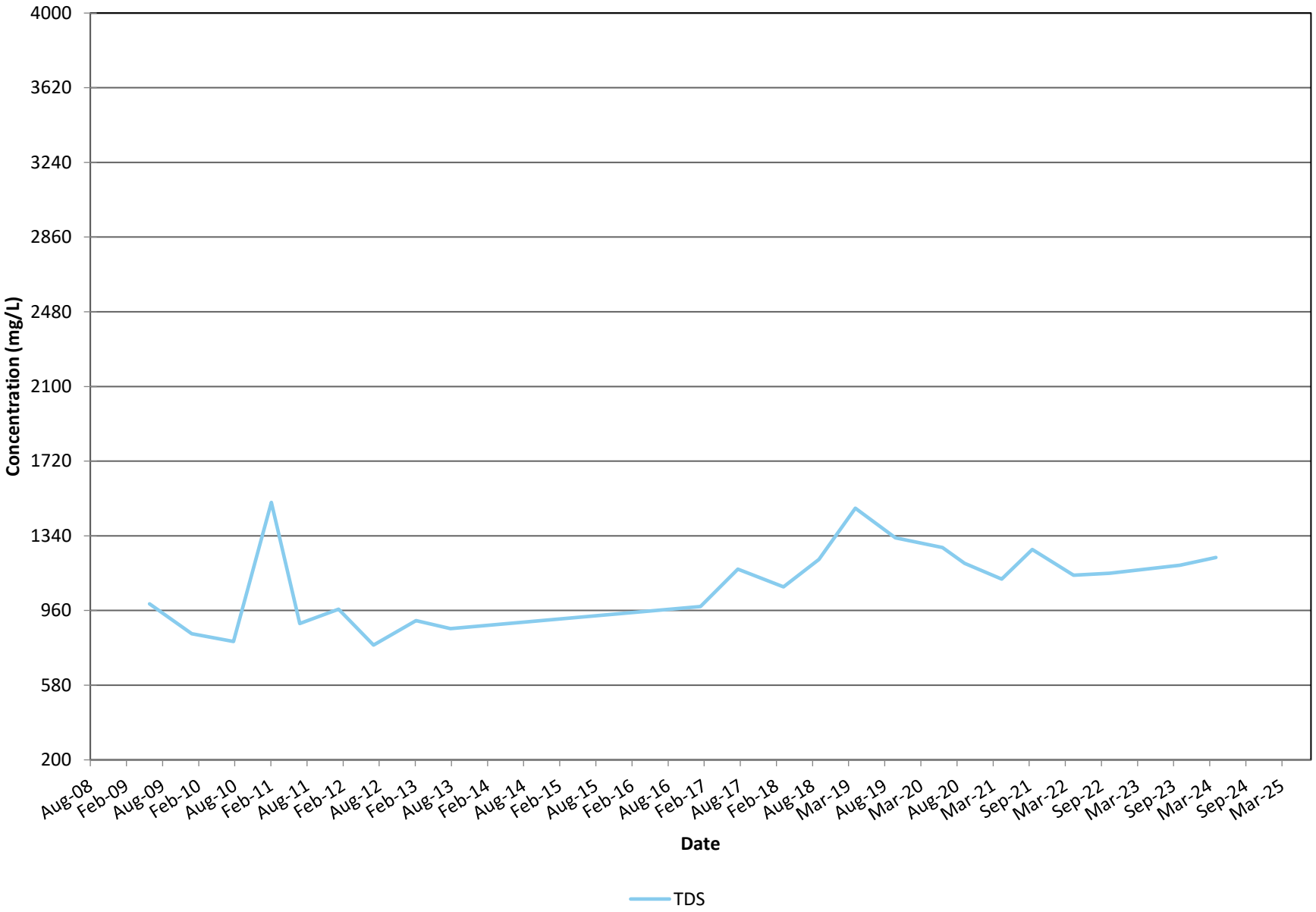


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

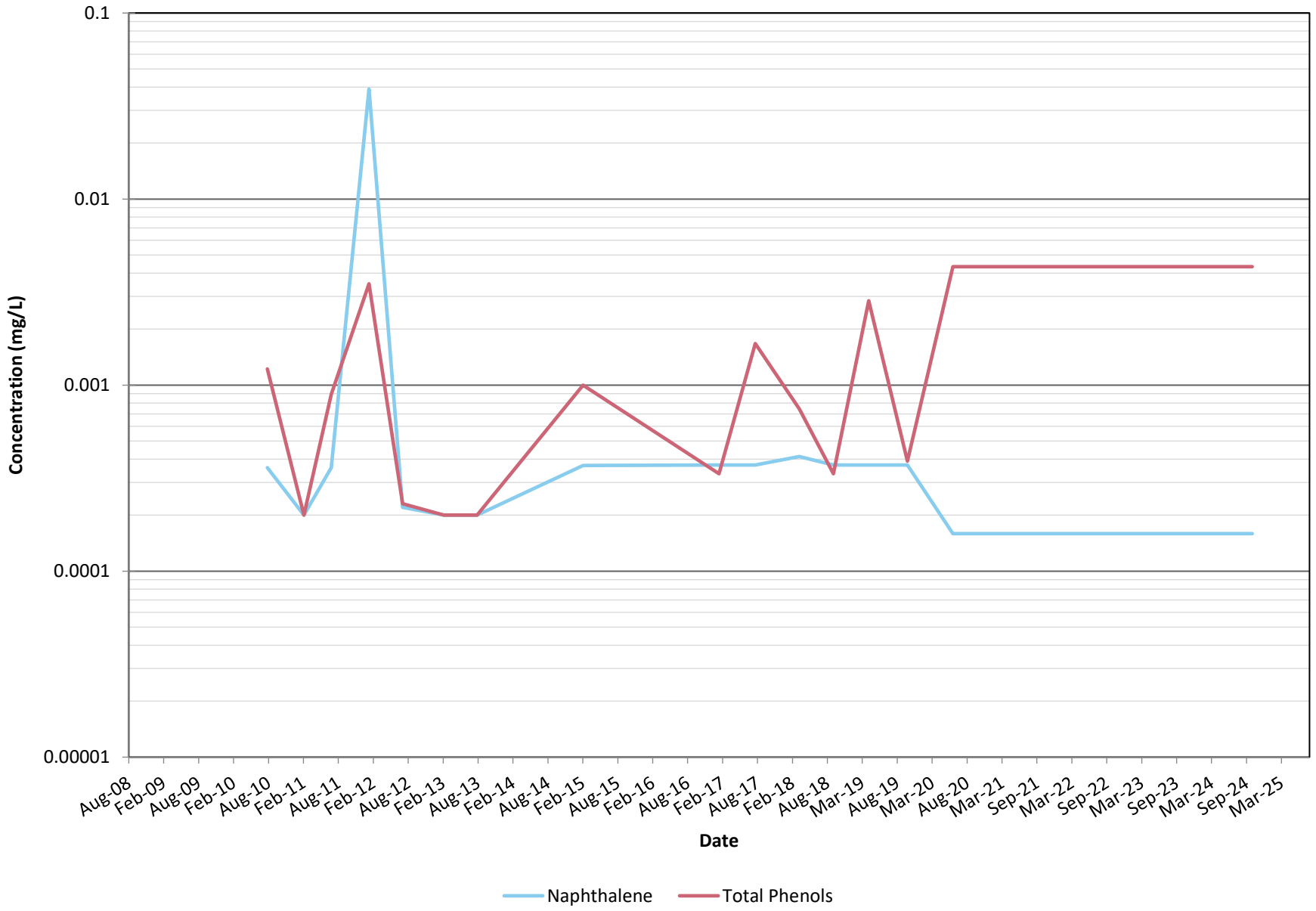
MW-11/MW-11R VOC CONCENTRATIONS OVER TIME



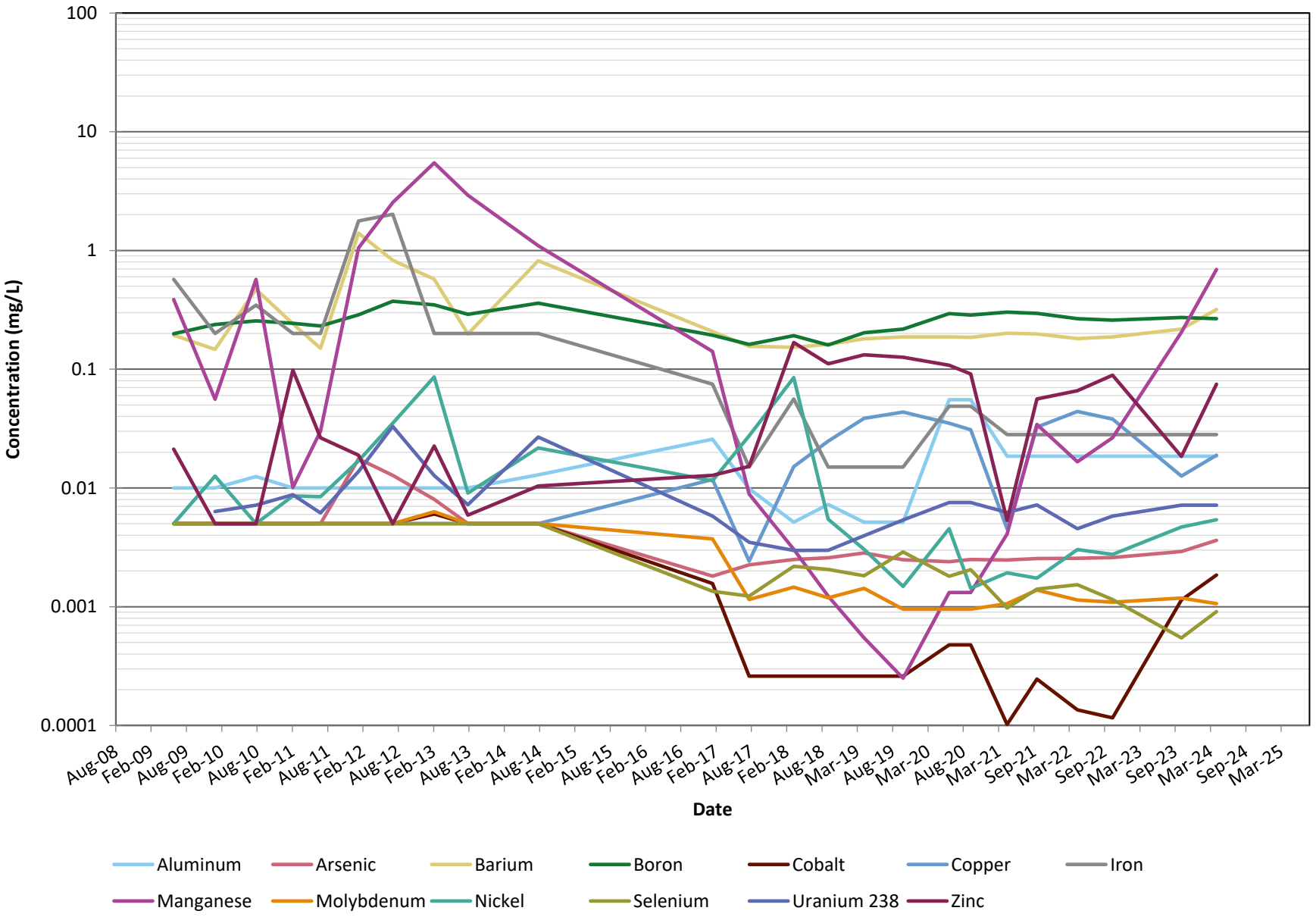
MW-11/MW-11R TDS CONCENTRATIONS OVER TIME



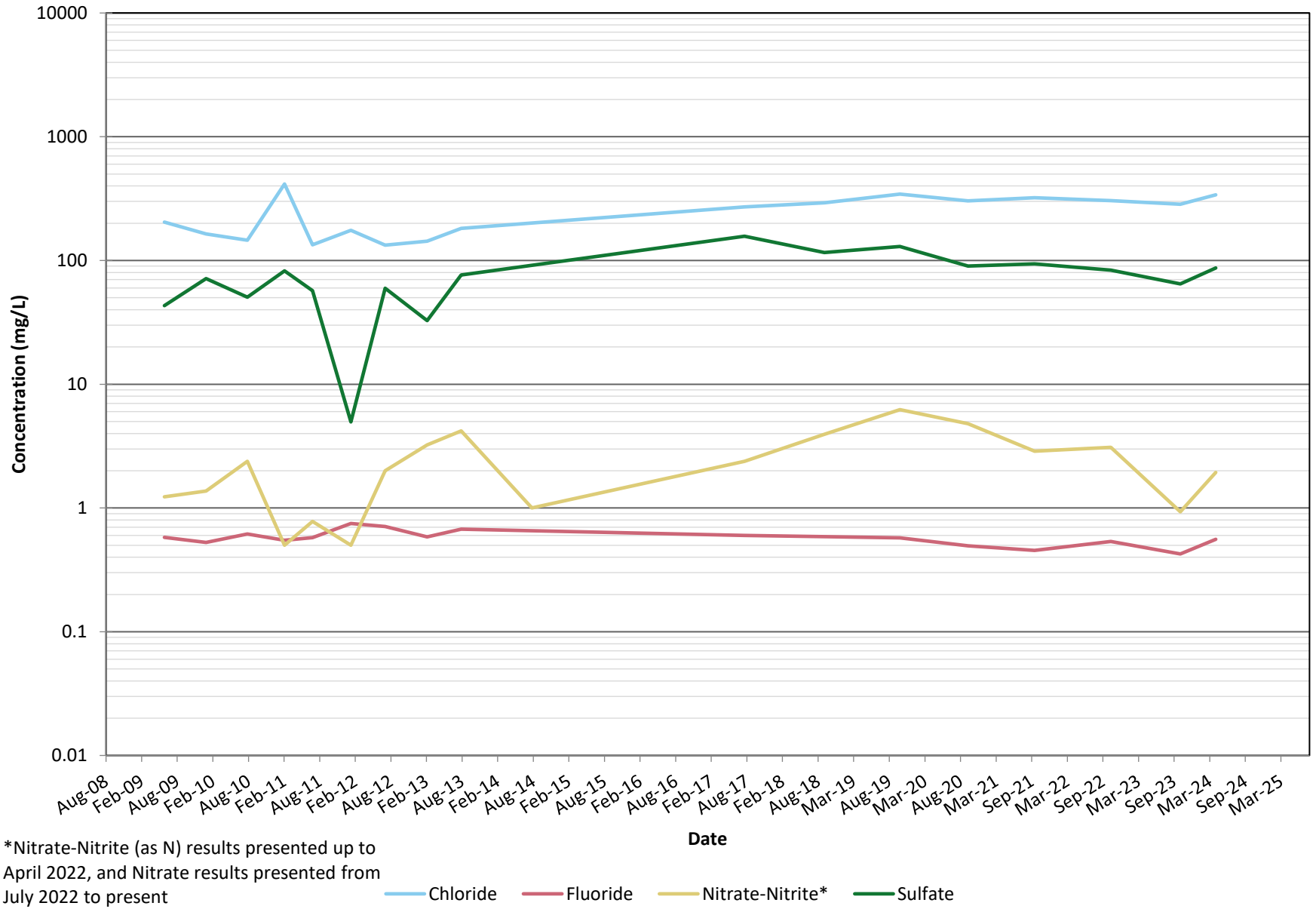
MW-11/MW-11R SVOC CONCENTRATIONS OVER TIME



MW-11/MW-11R Metals CONCENTRATIONS OVER TIME

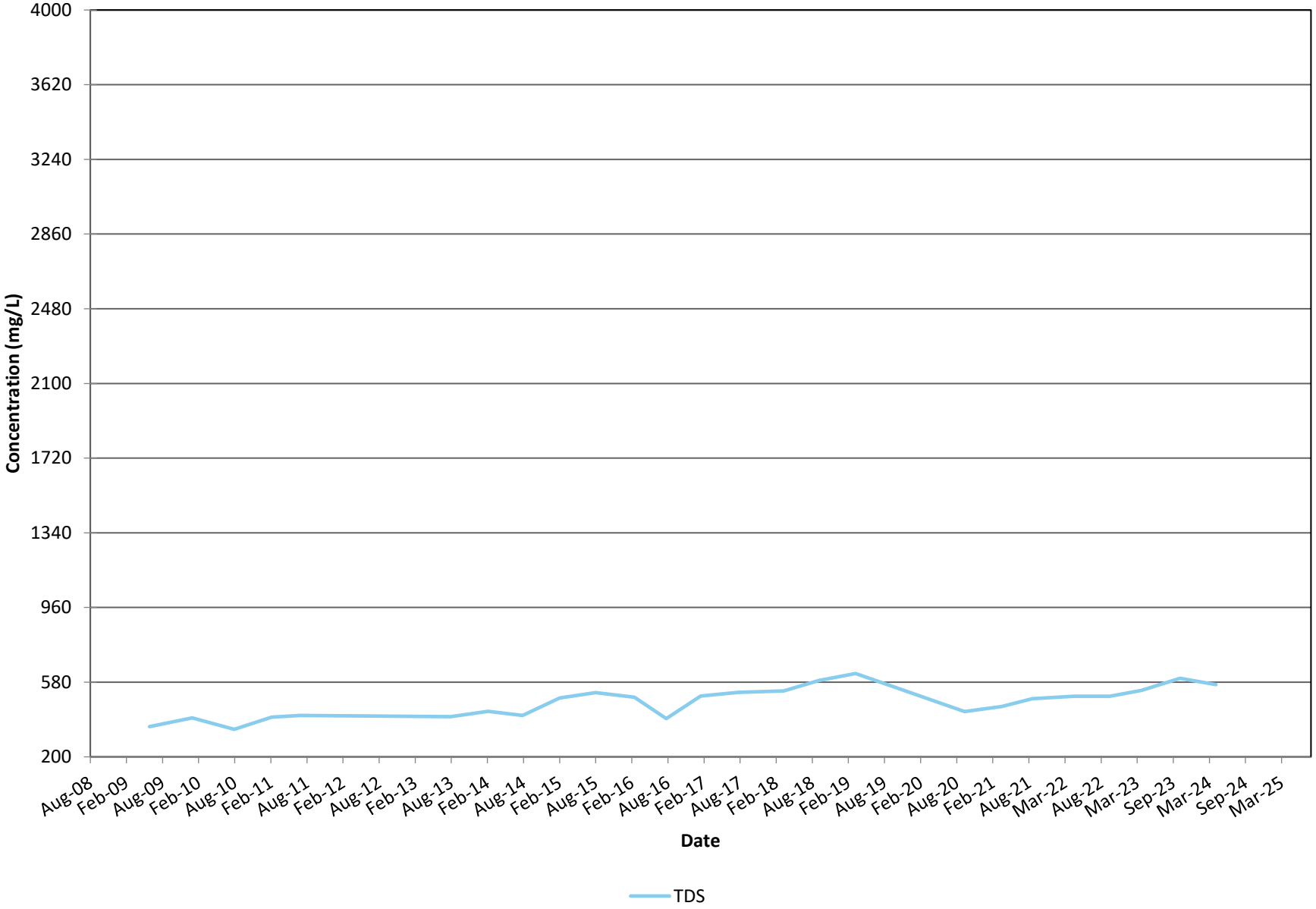


MW-11/MW-11R Anions CONCENTRATIONS OVER TIME

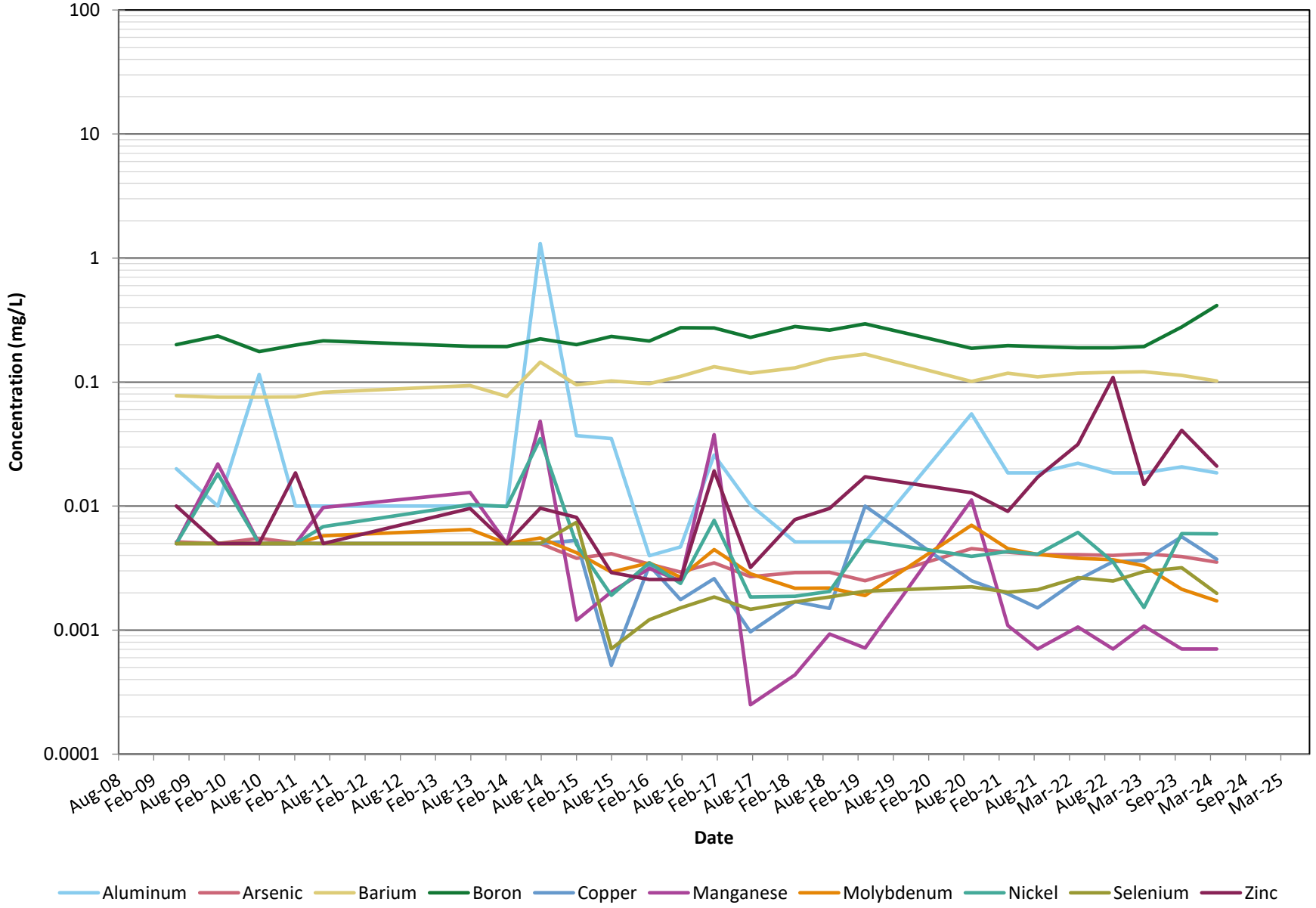


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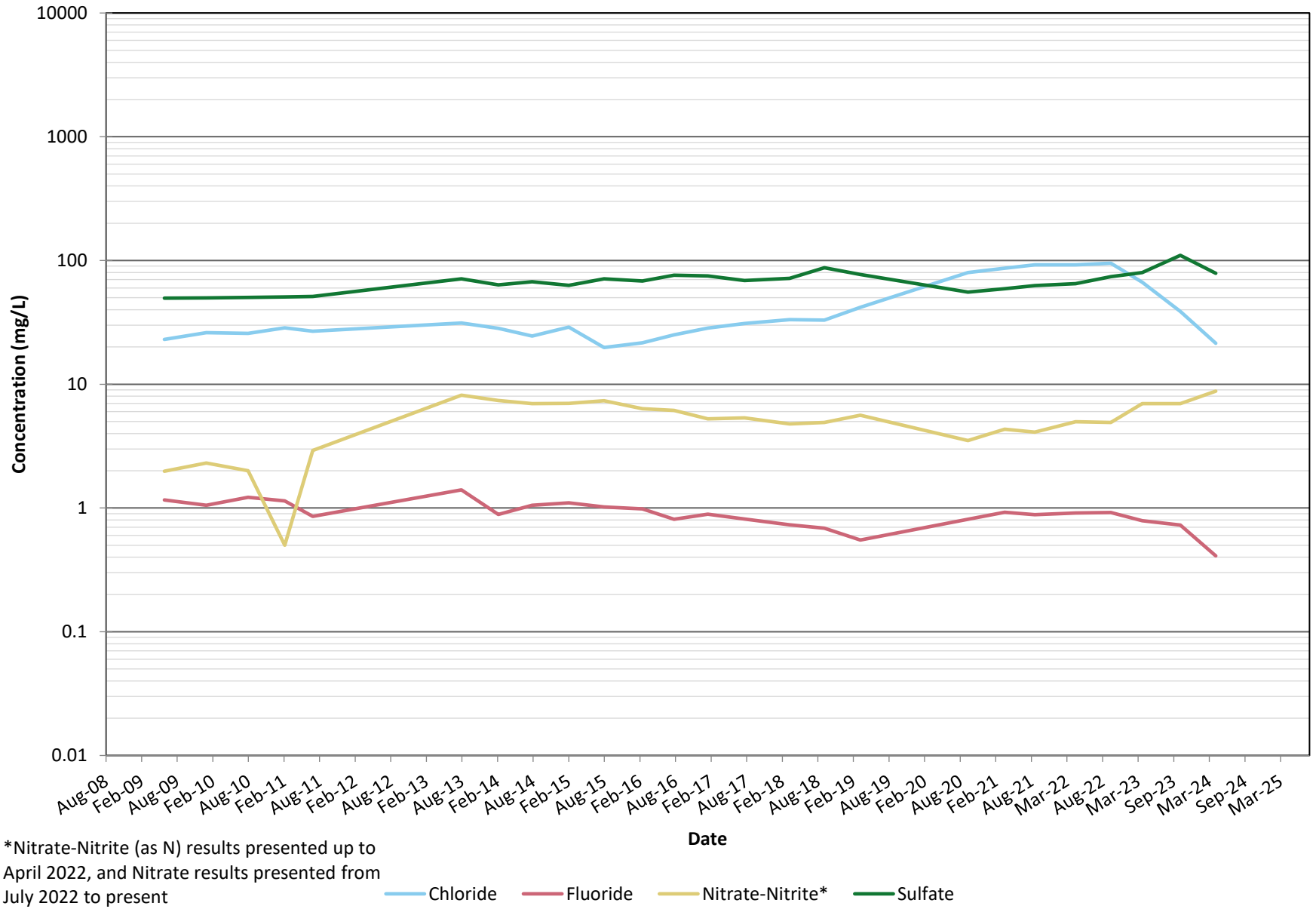
MW-12/MW-12R/MW-12R2 TDS CONCENTRATIONS OVER TIME



MW-12/MW-12R/MW-12R2 Metals CONCENTRATIONS OVER TIME

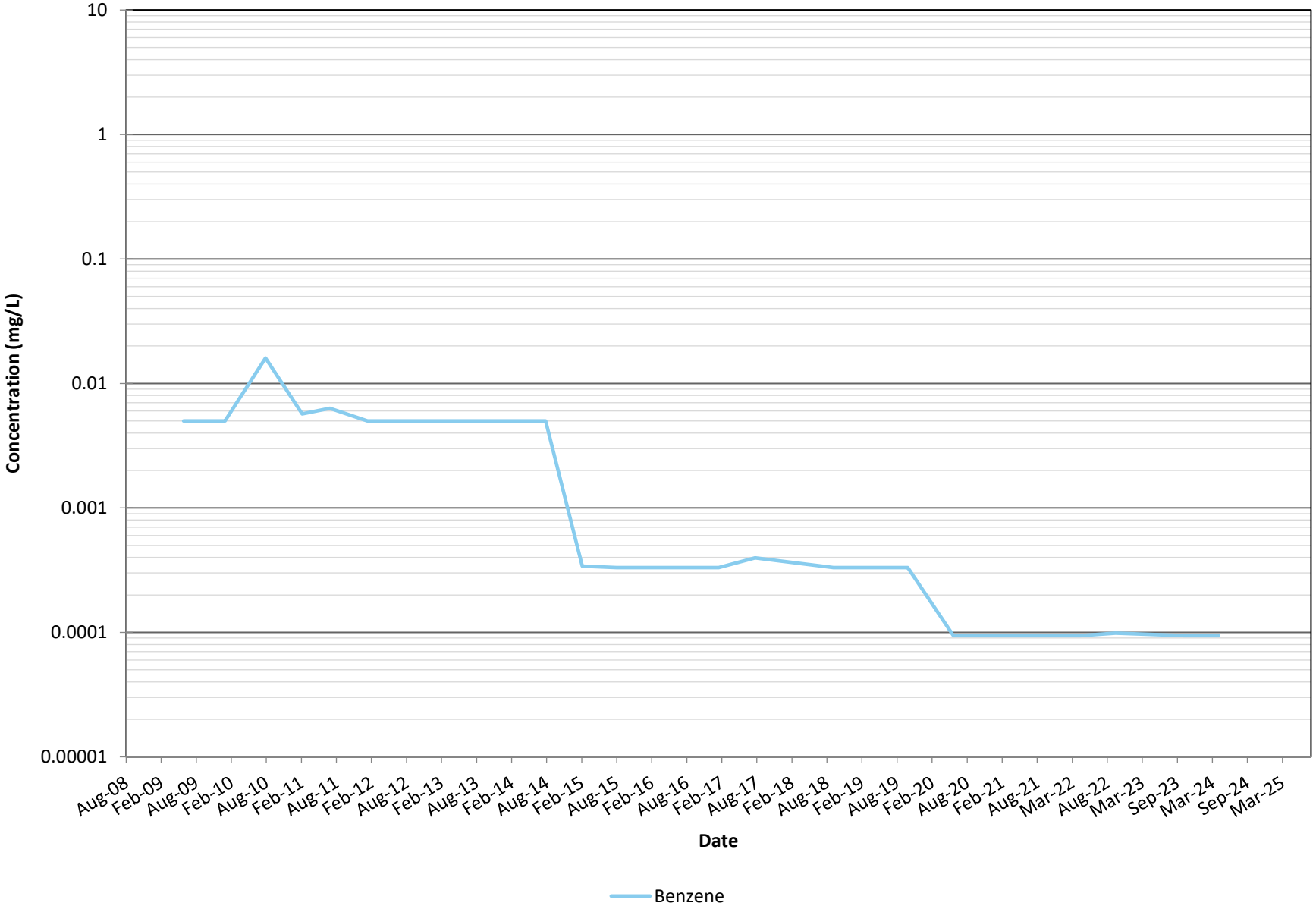


MW-12/MW-12R/MW-12R2 Anions CONCENTRATIONS OVER TIME

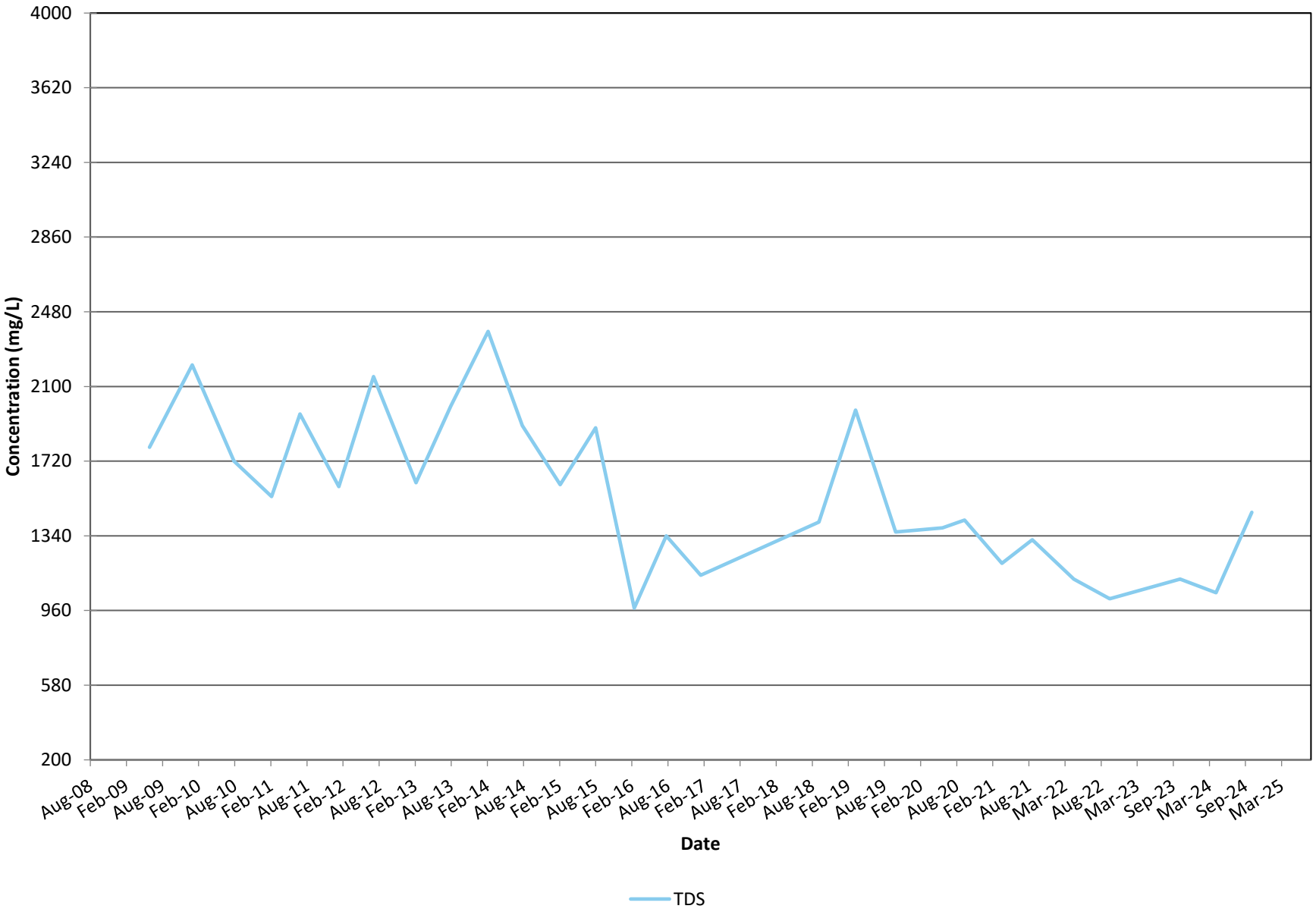


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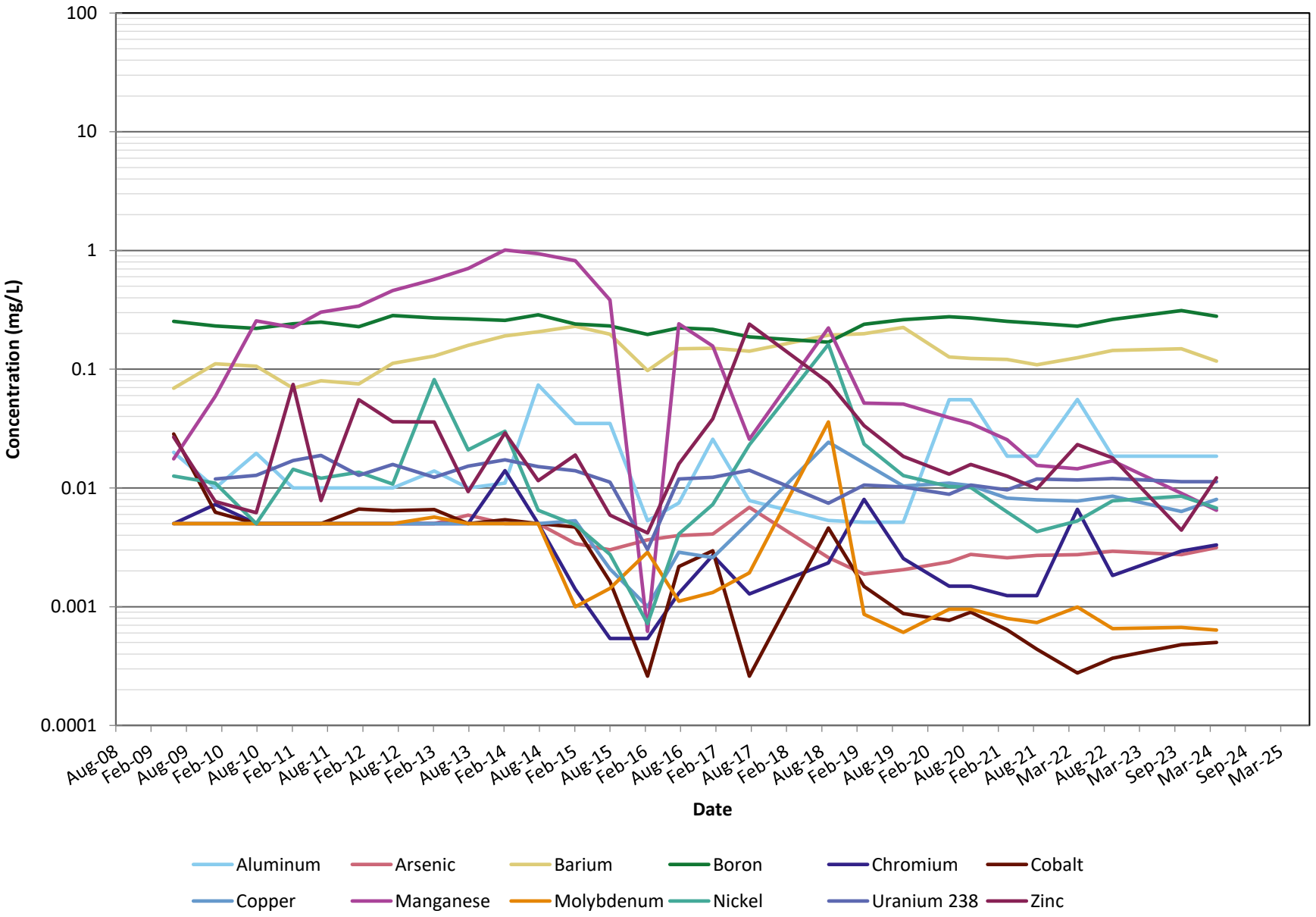
MW-13/MW-13R VOC CONCENTRATIONS OVER TIME



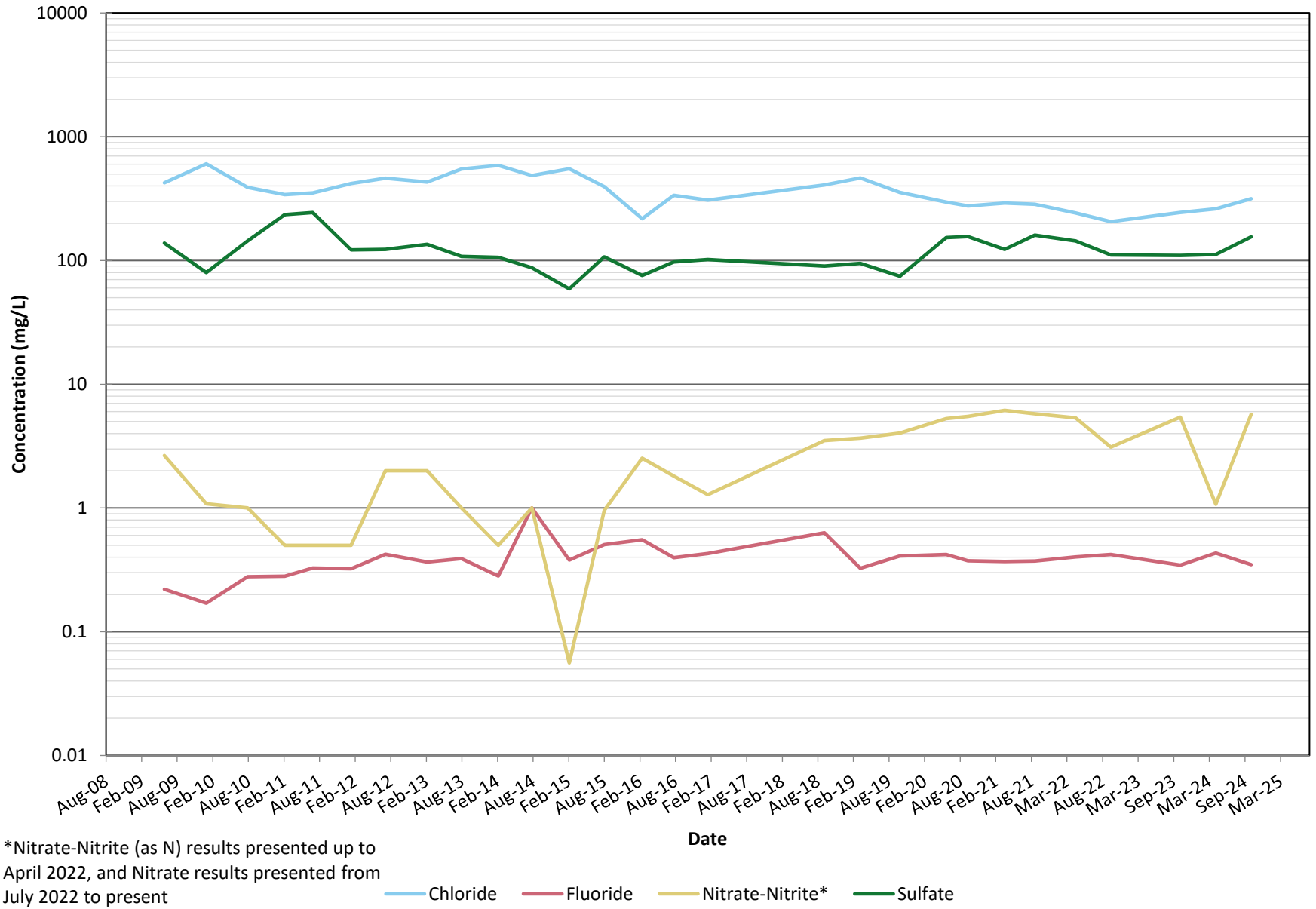
MW-13/MW-13R TDS CONCENTRATIONS OVER TIME



MW-13/MW-13R Metals CONCENTRATIONS OVER TIME

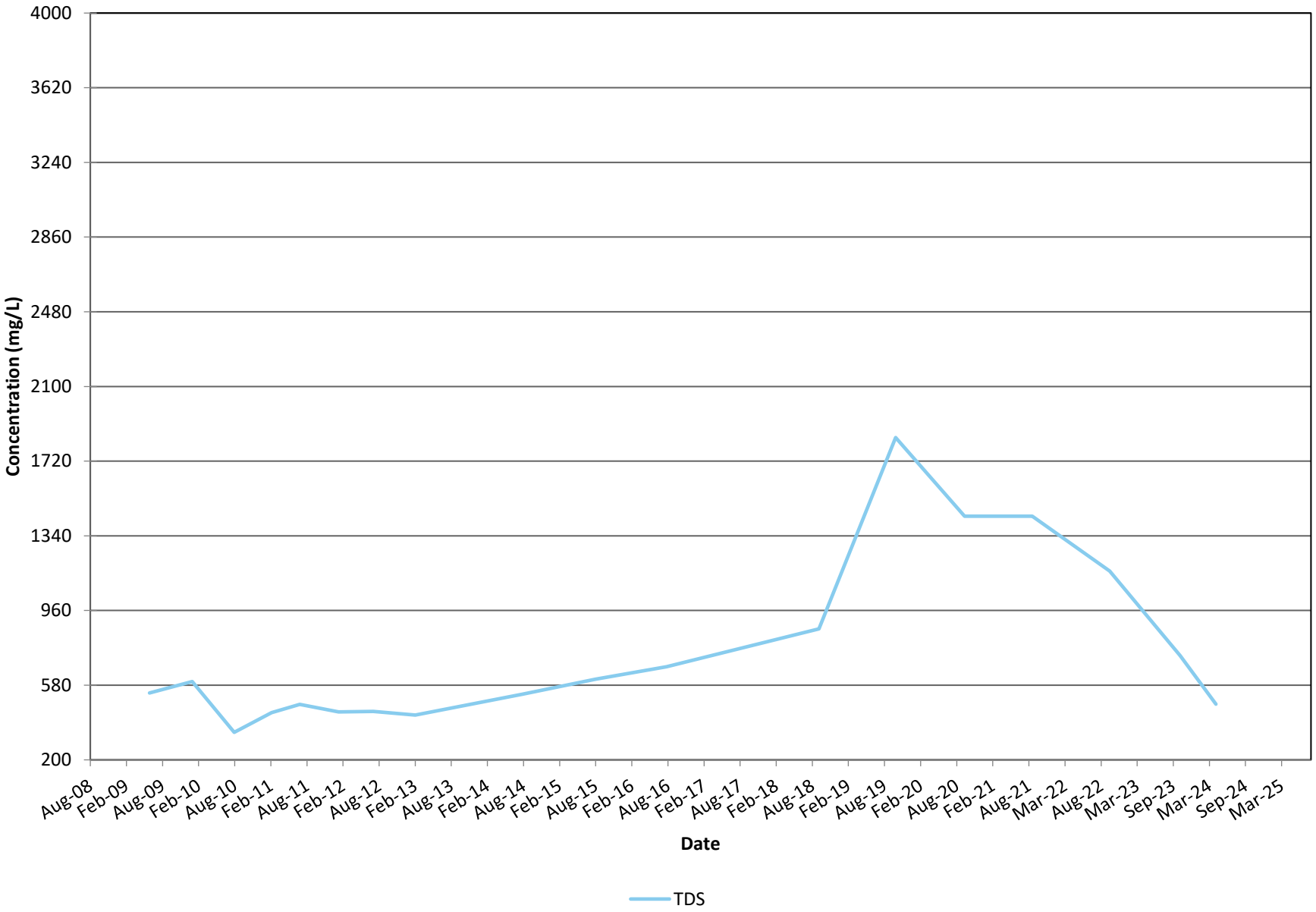


MW-13/MW-13R Anions CONCENTRATIONS OVER TIME

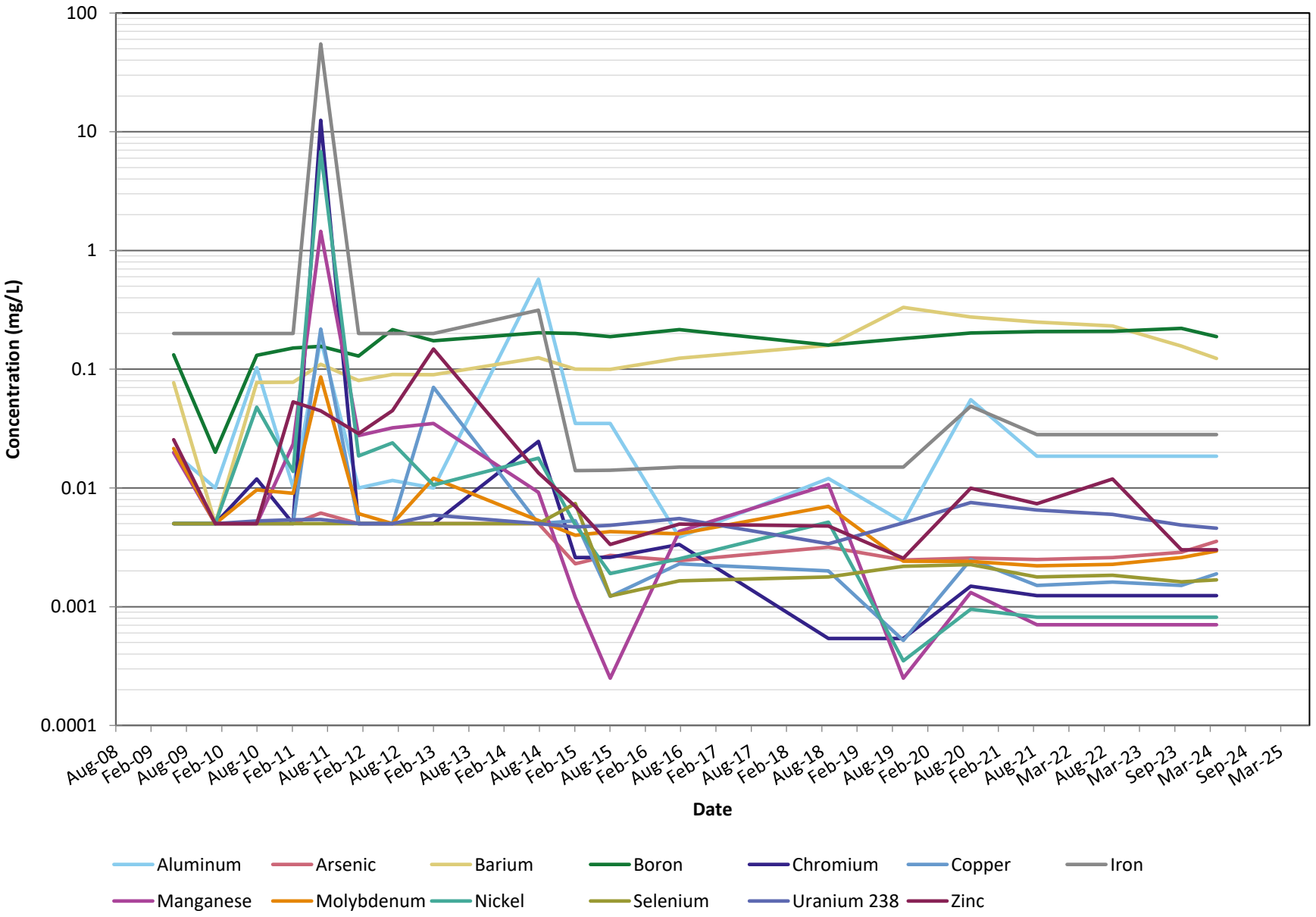


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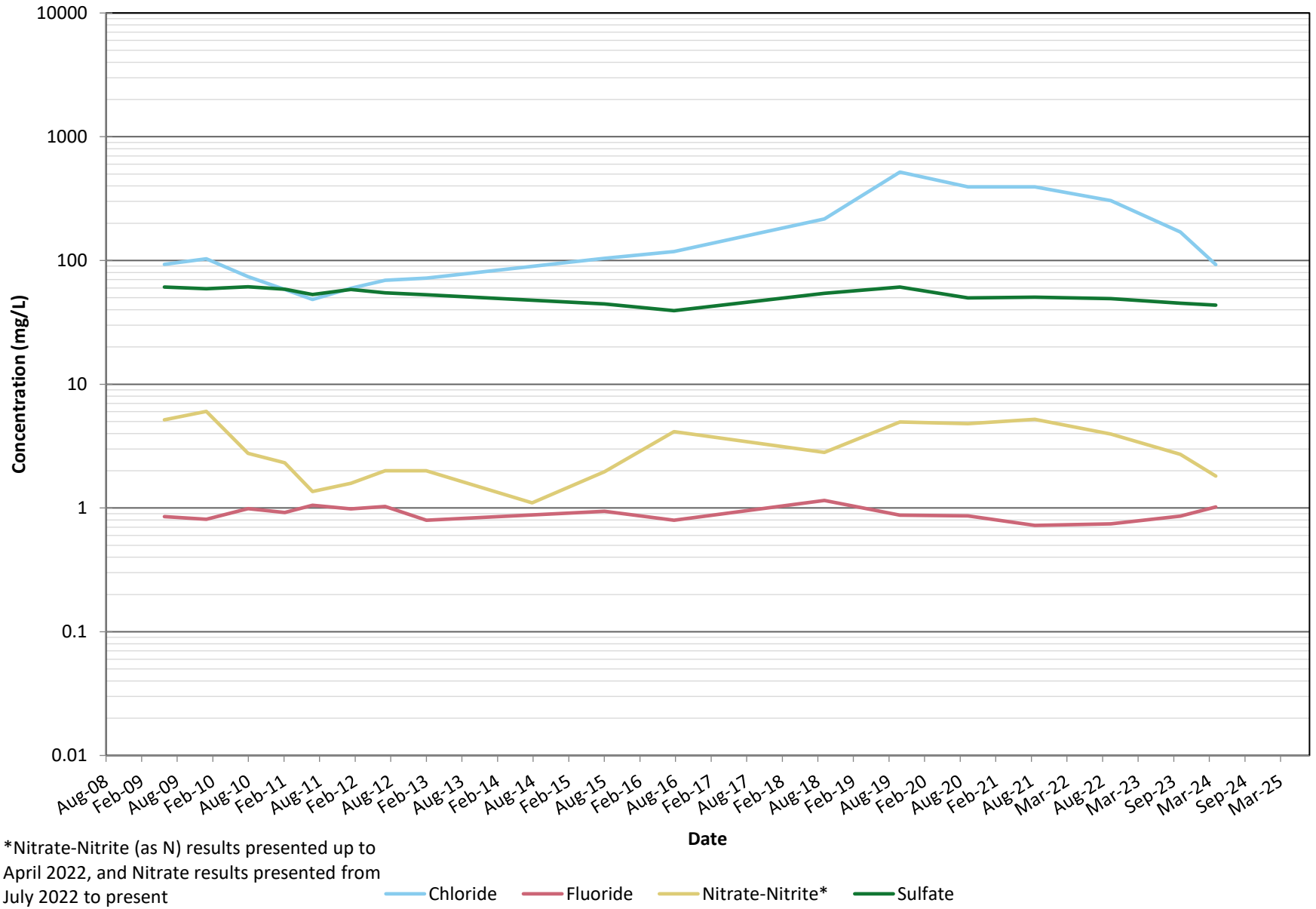
MW-14/MW-14R TDS CONCENTRATIONS OVER TIME



MW-14/MW-14R Metals CONCENTRATIONS OVER TIME

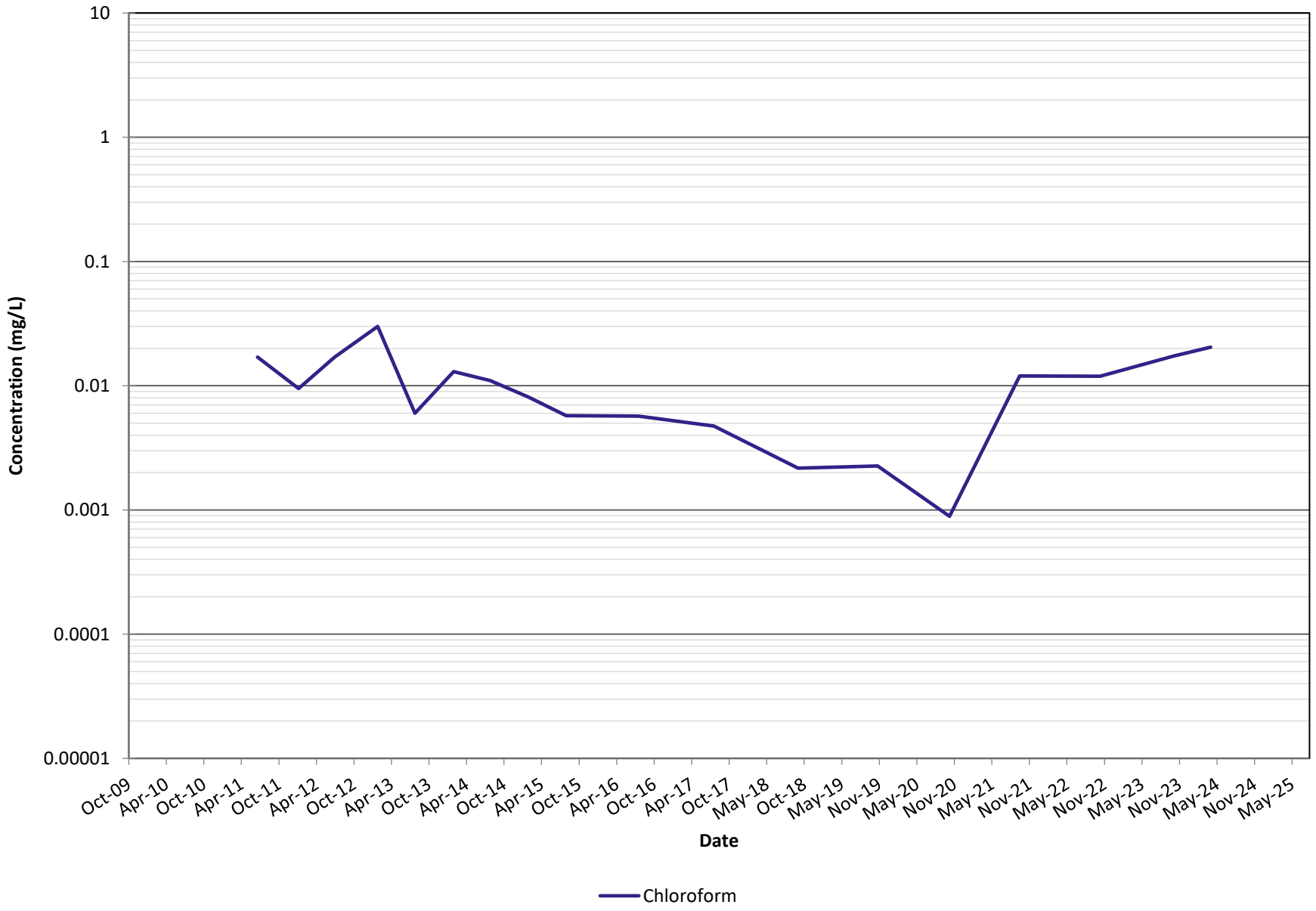


MW-14/MW-14R Anions CONCENTRATIONS OVER TIME

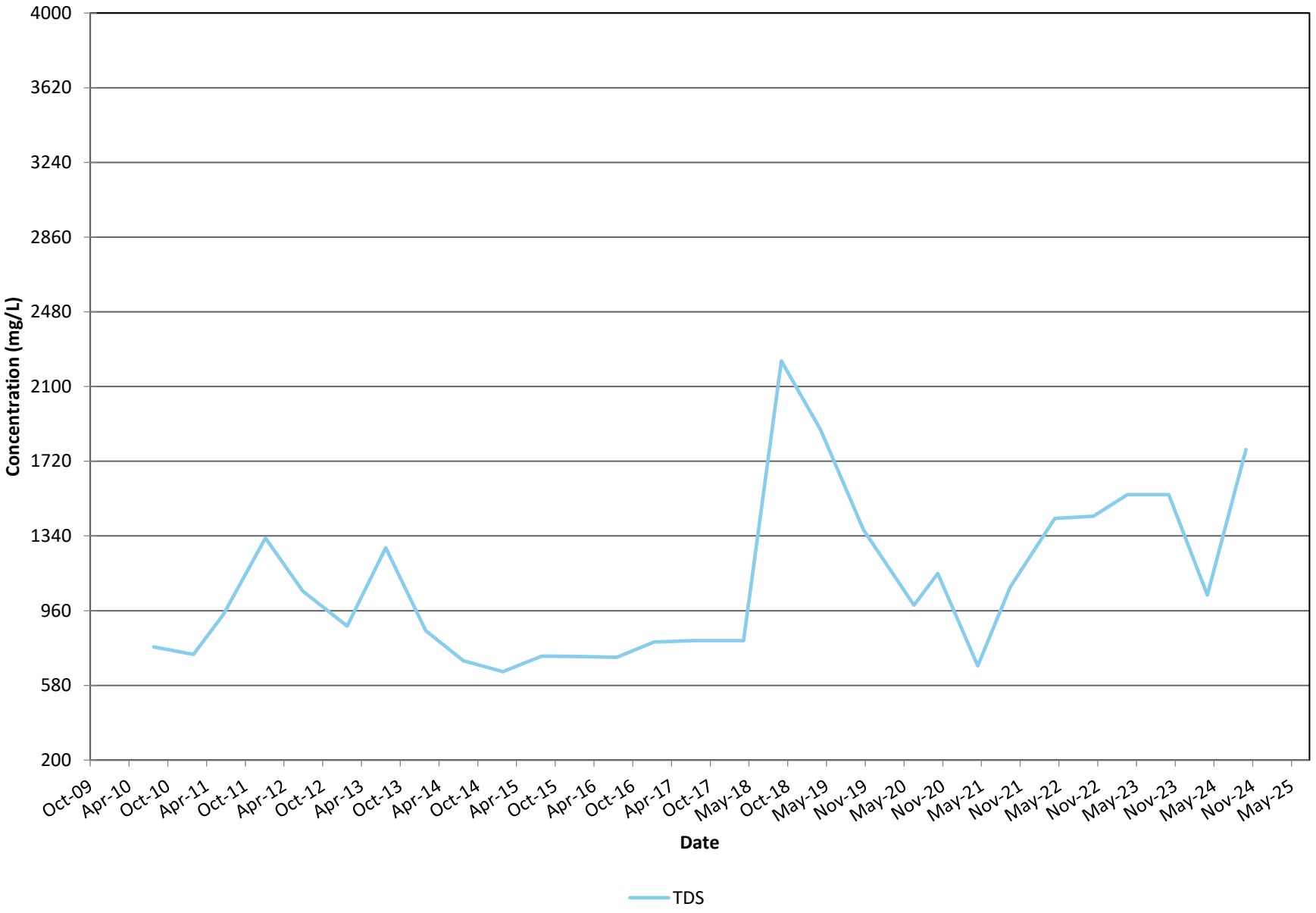


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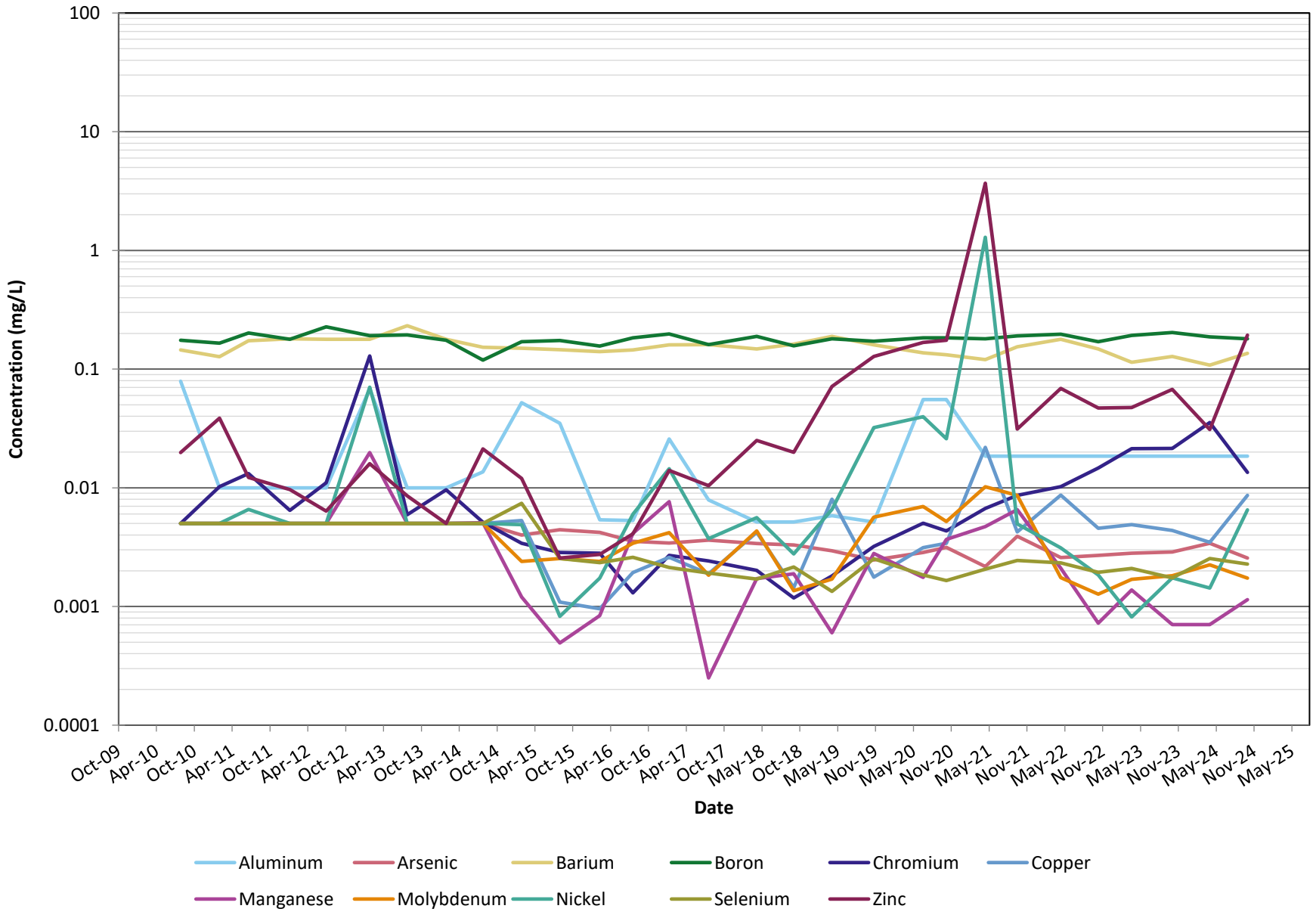
MW-15/MW-15R VOC CONCENTRATIONS OVER TIME



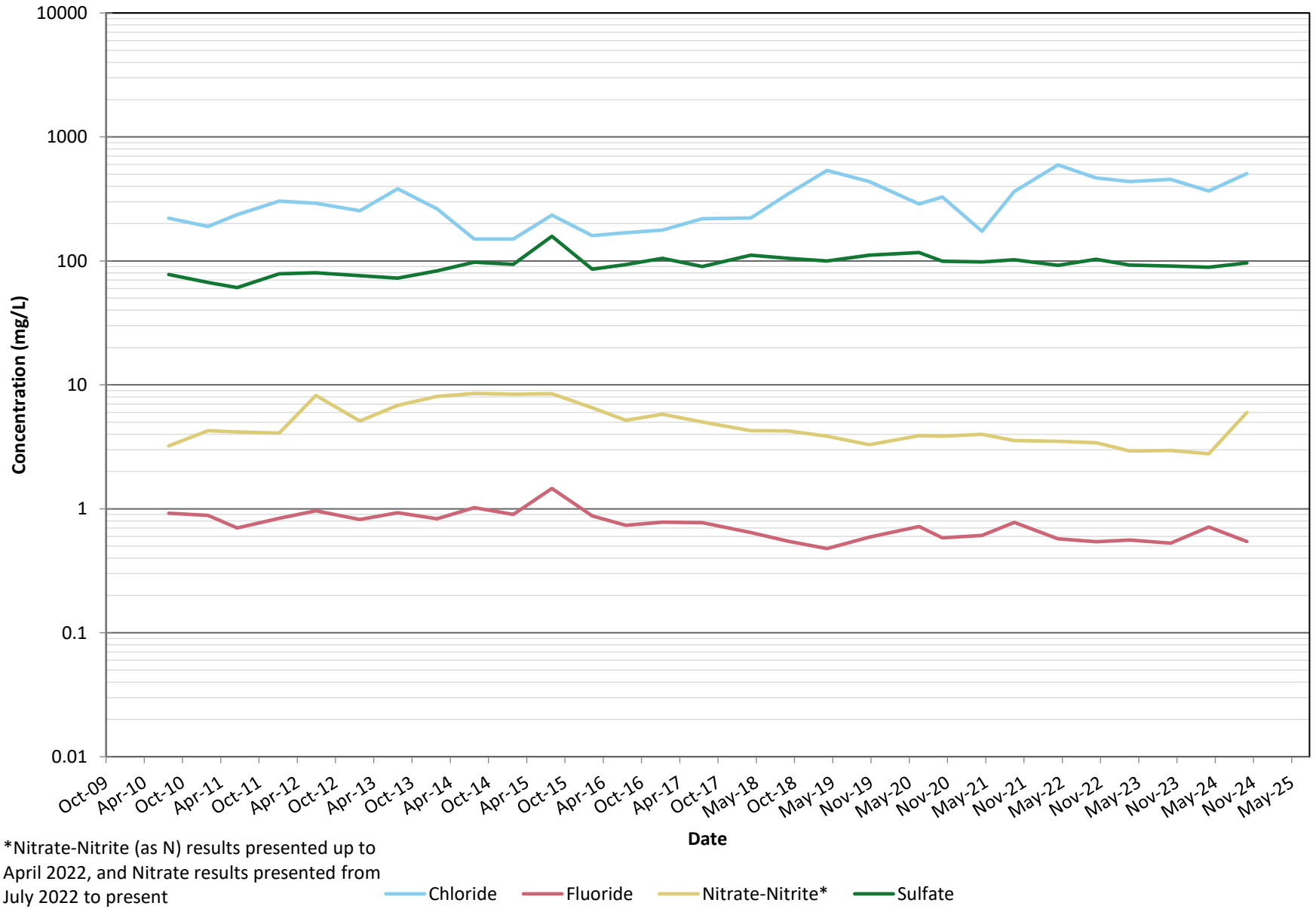
MW-15/MW-15R TDS CONCENTRATIONS OVER TIME



MW-15/MW-15R Metals CONCENTRATIONS OVER TIME

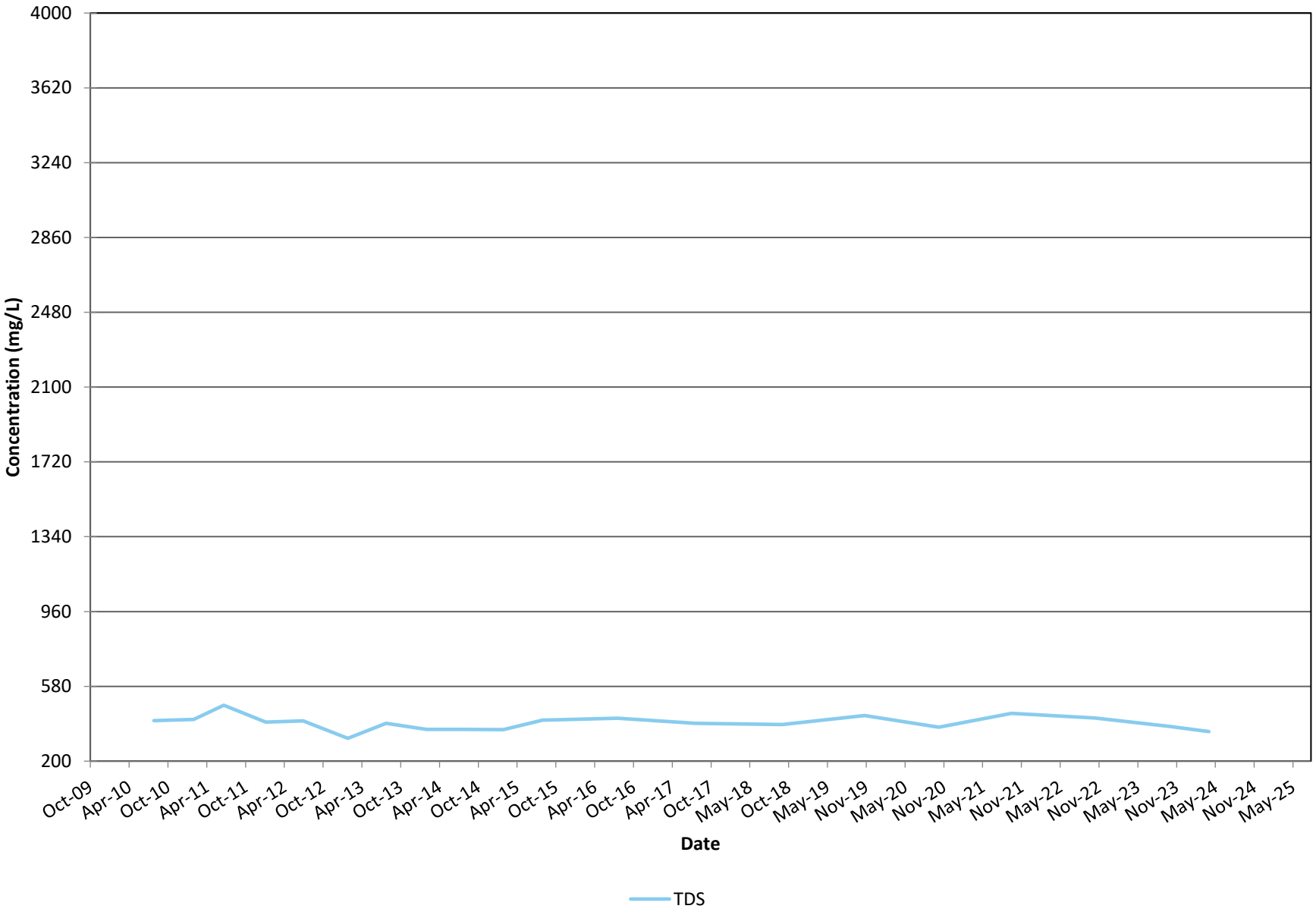


MW-15/MW-15R Anions CONCENTRATIONS OVER TIME

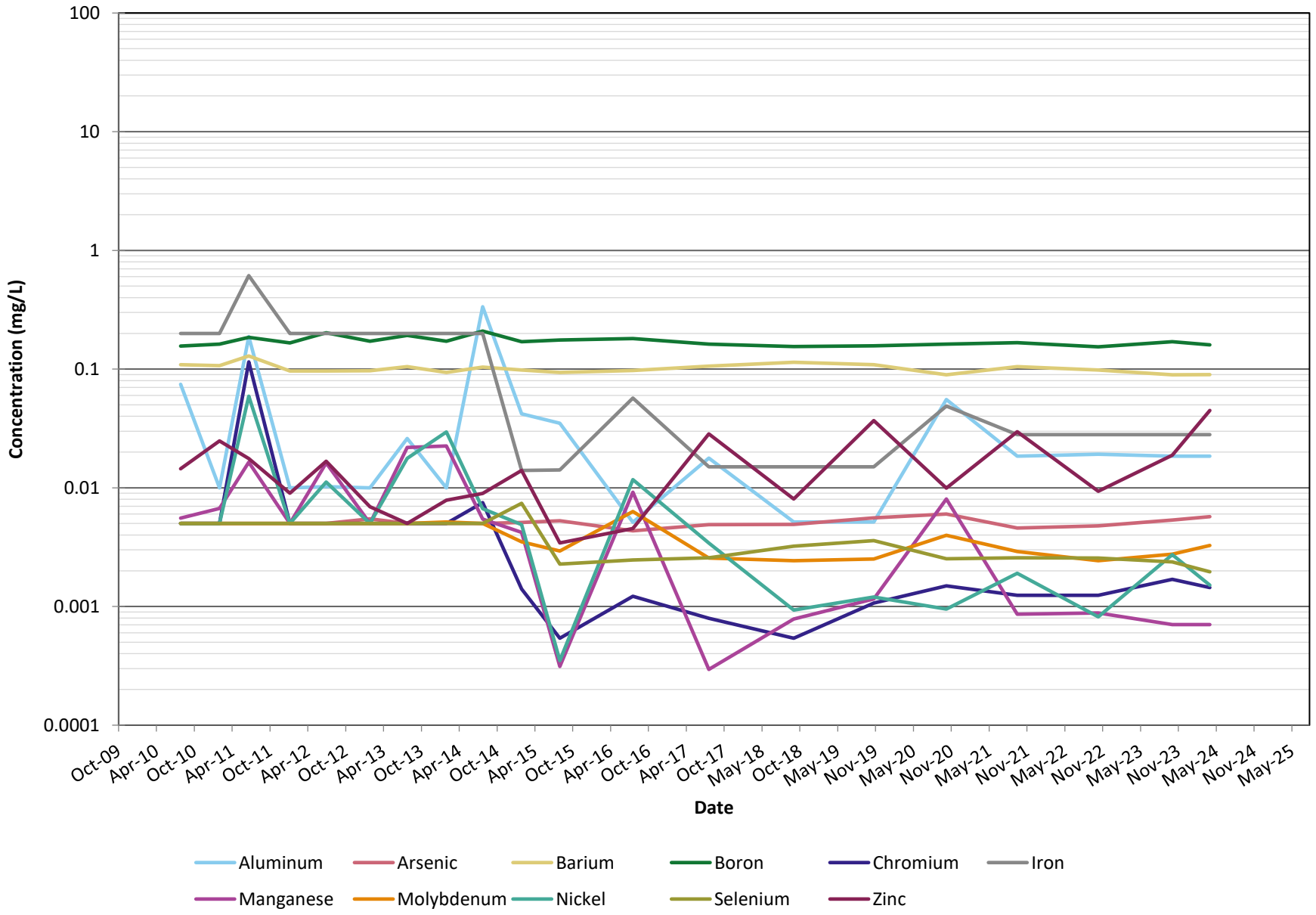


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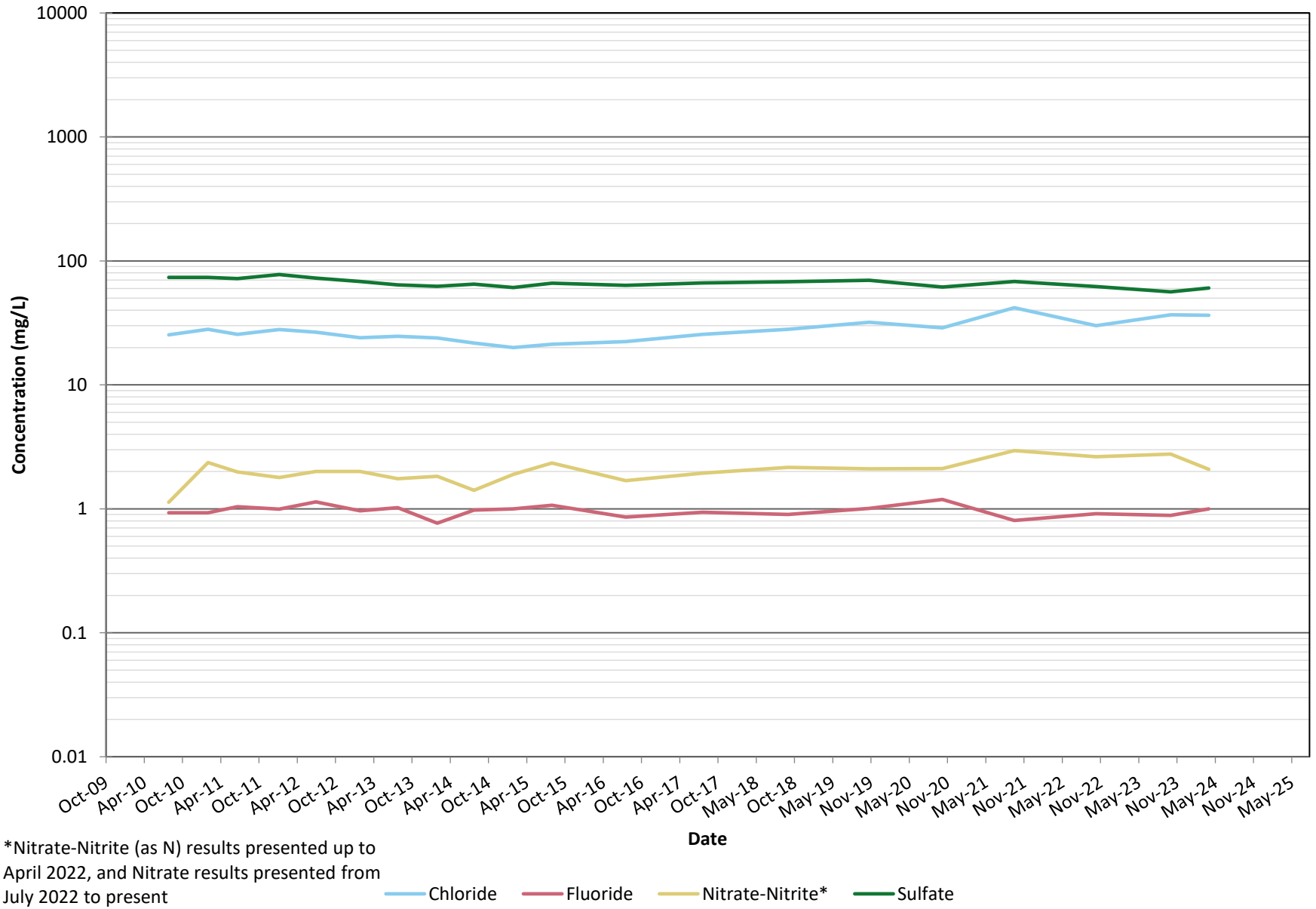
MW-16/MW-16R TDS CONCENTRATIONS OVER TIME



MW-16/MW-16R Metals CONCENTRATIONS OVER TIME

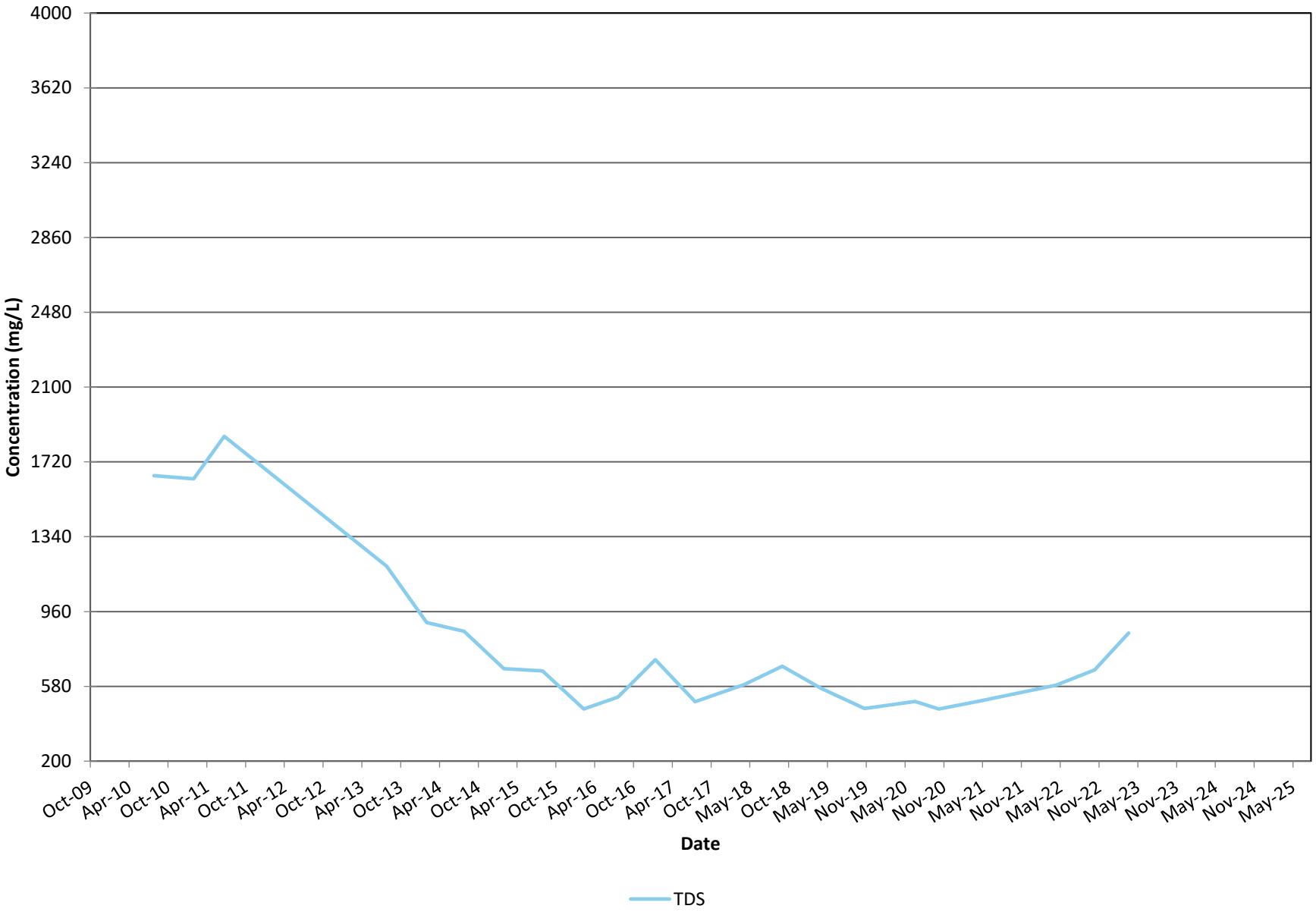


MW-16/MW-16R Anions CONCENTRATIONS OVER TIME

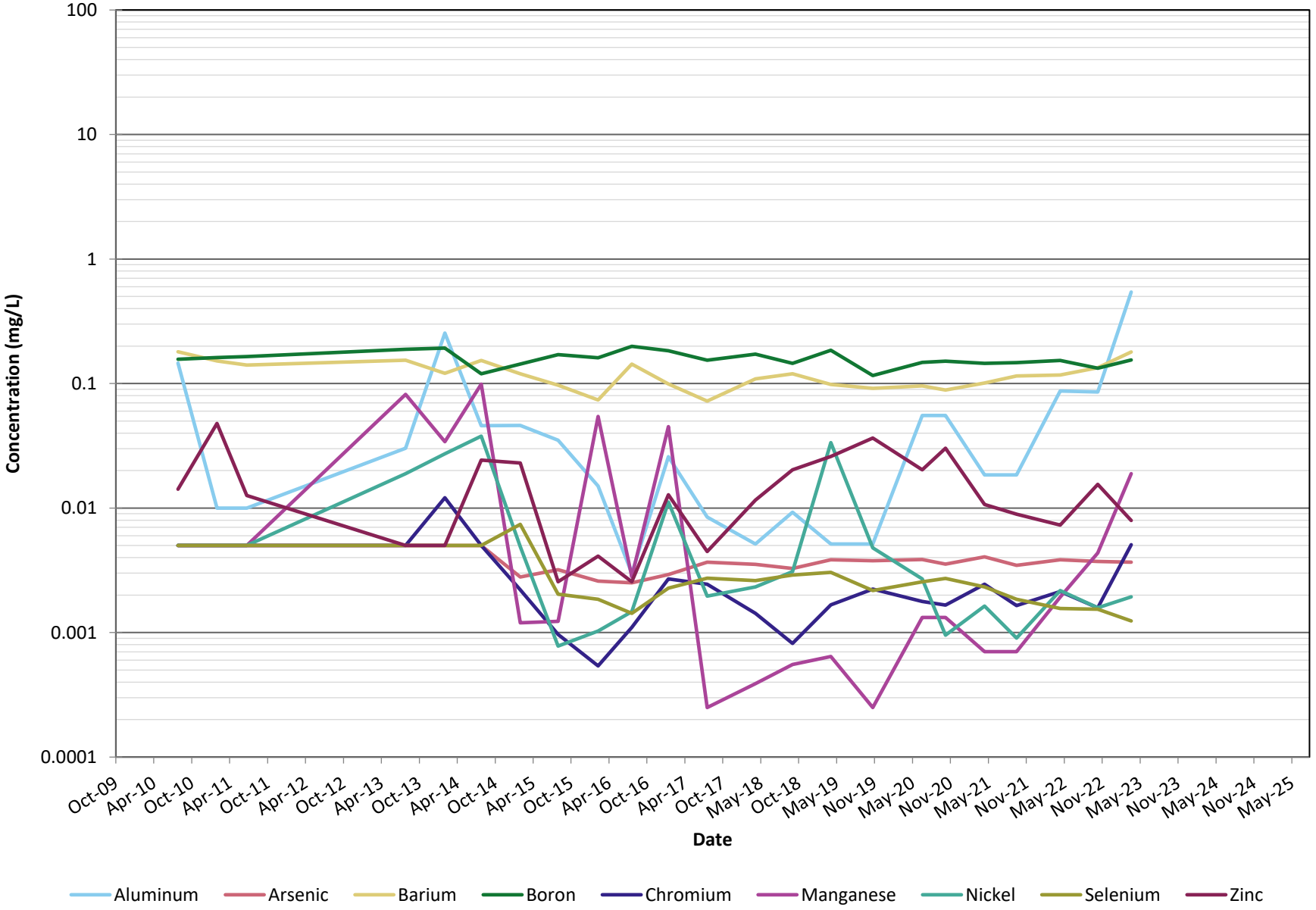


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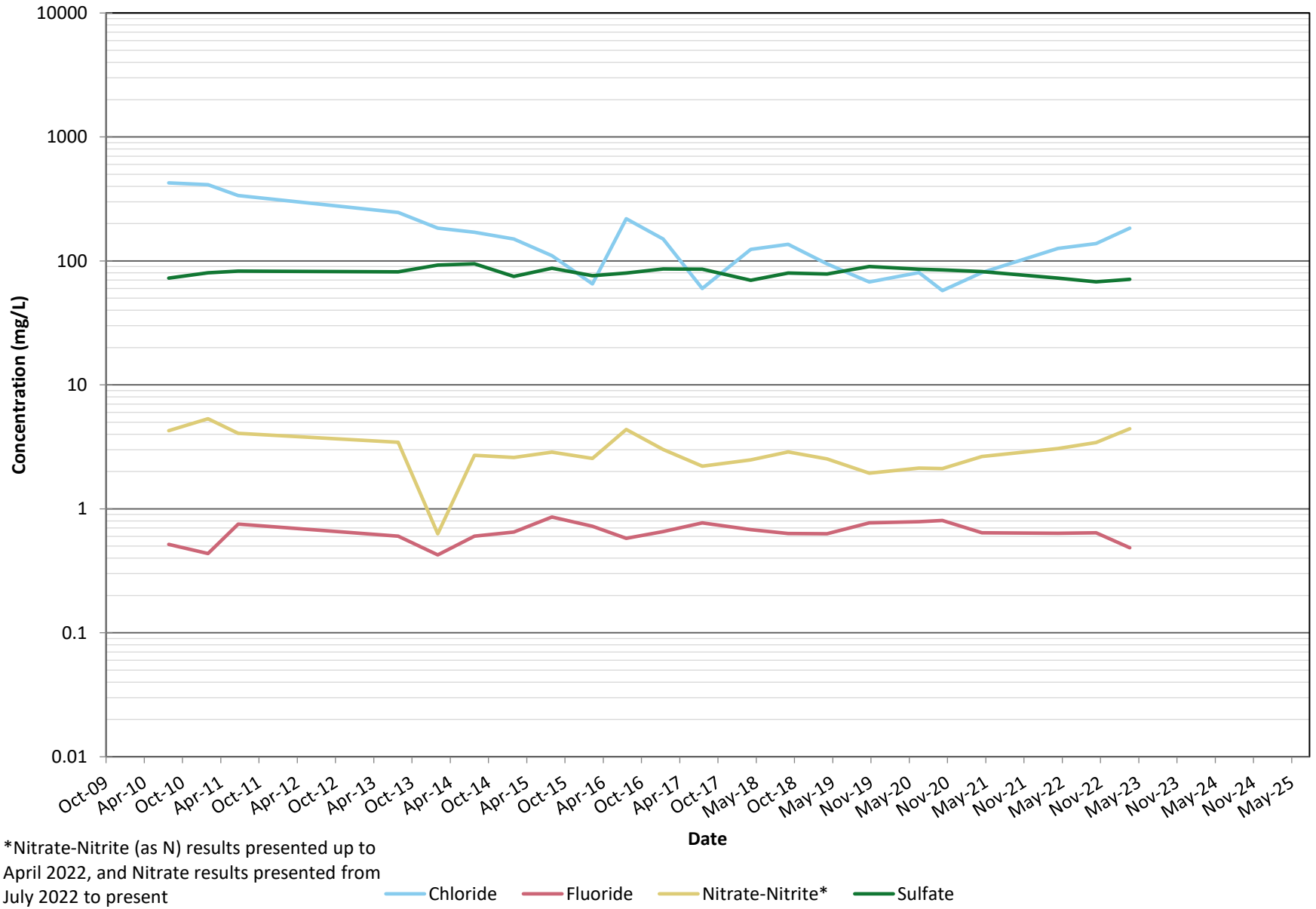
MW-17/MW-17R TDS CONCENTRATIONS OVER TIME



MW-17/MW-17R Metals CONCENTRATIONS OVER TIME

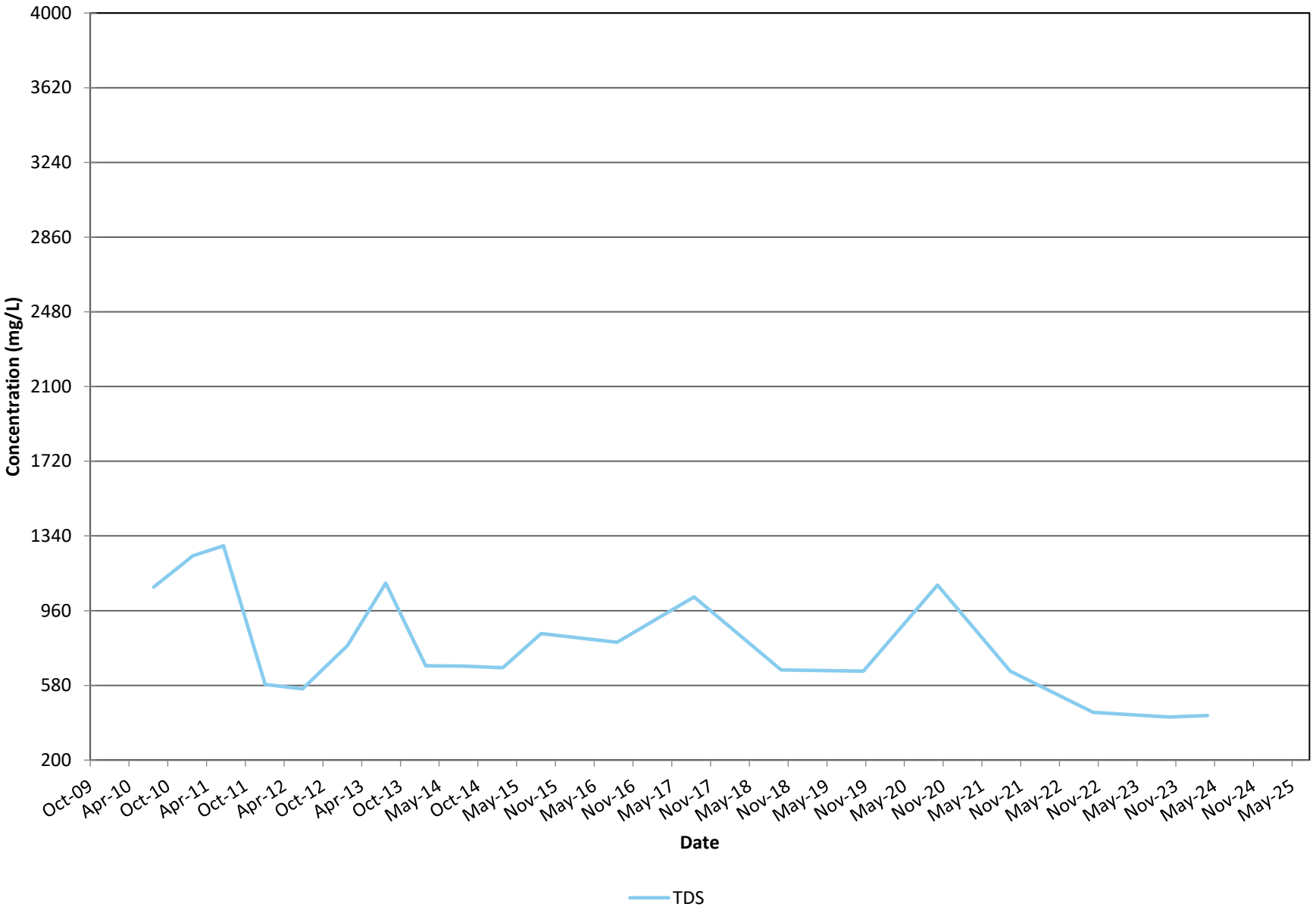


MW-17/MW-17R Anions CONCENTRATIONS OVER TIME

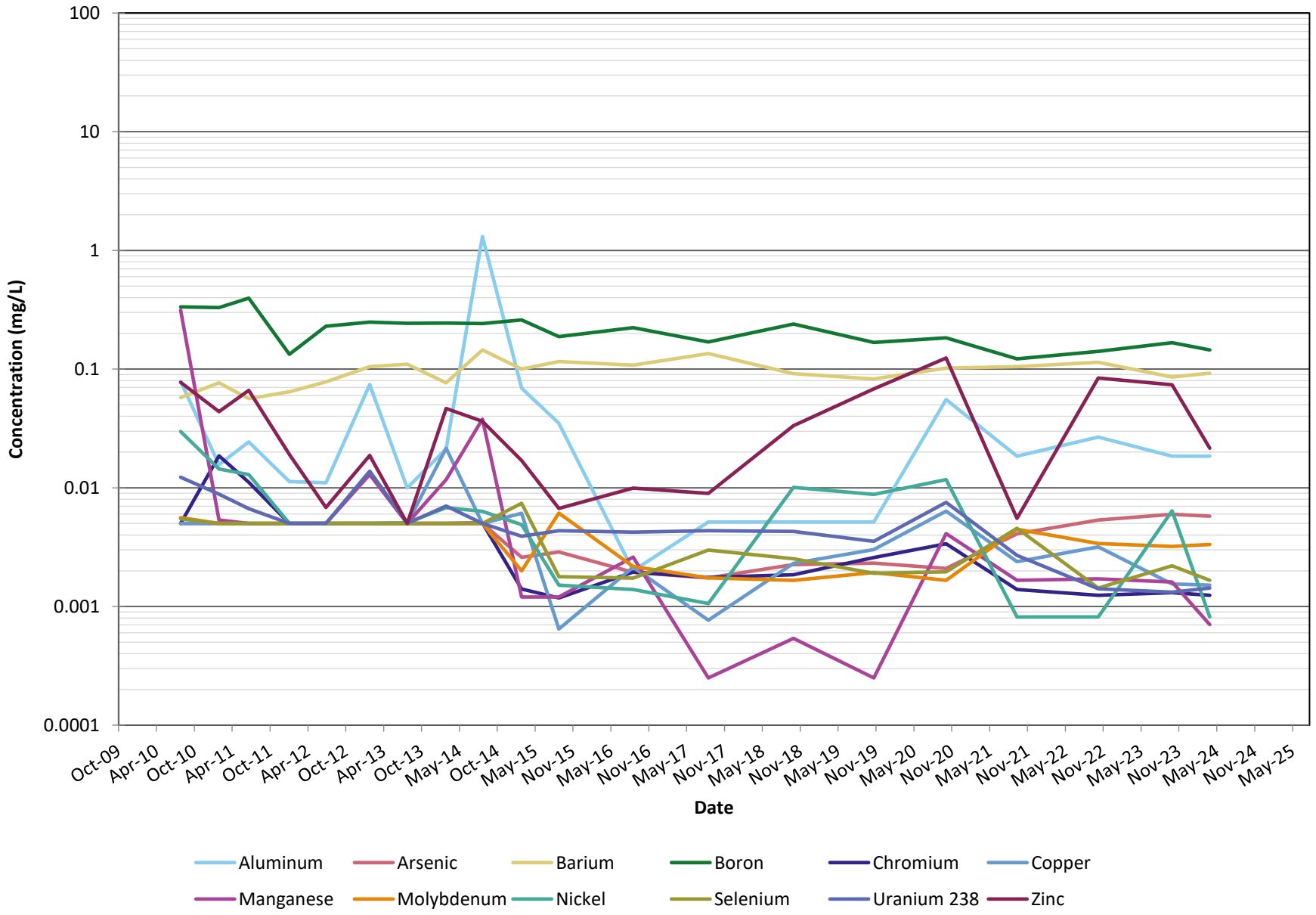


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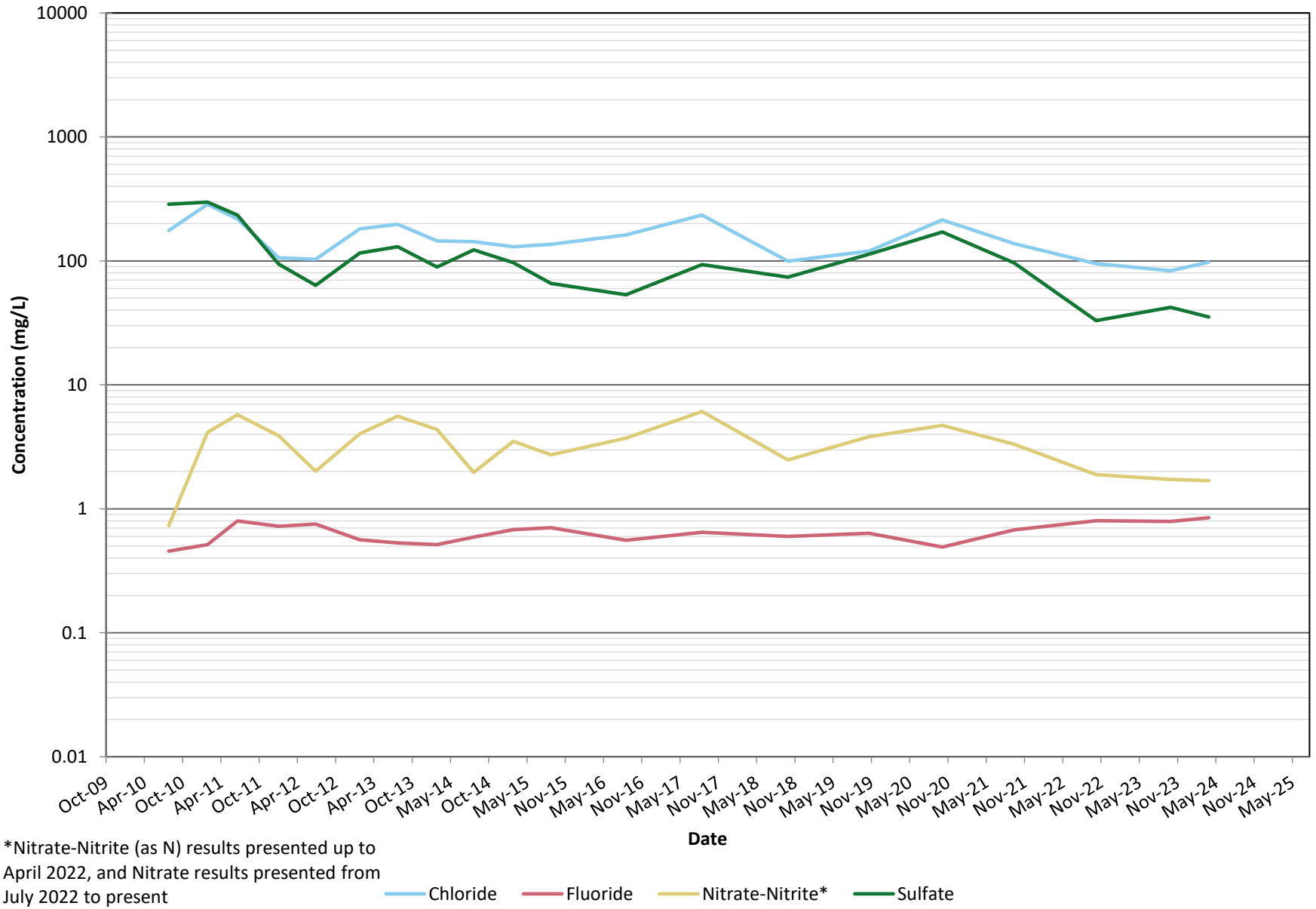
MW-18/MW-18R TDS CONCENTRATIONS OVER TIME



MW-18/MW-18R Metals CONCENTRATIONS OVER TIME

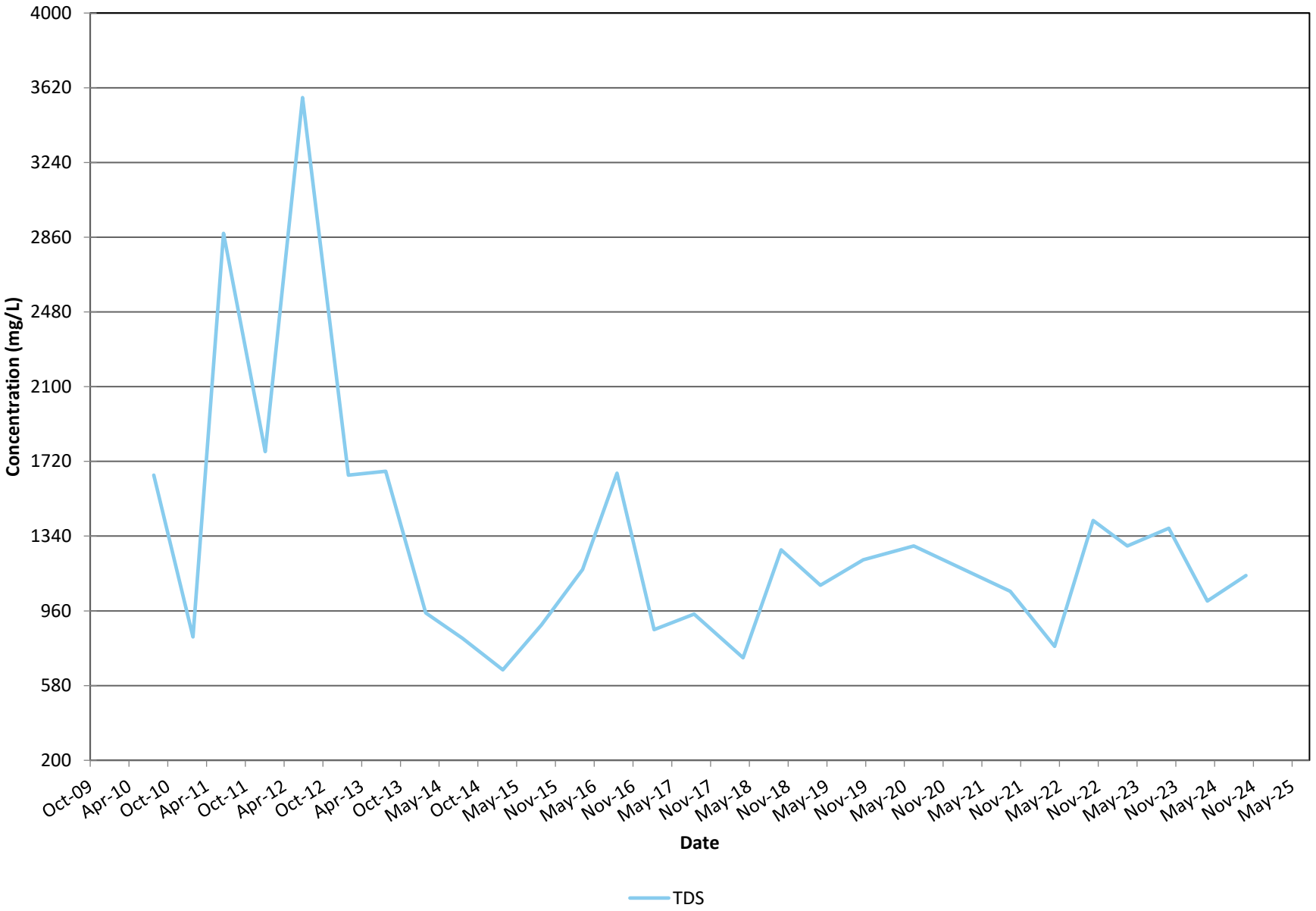


MW-18/MW-18R Anions CONCENTRATIONS OVER TIME

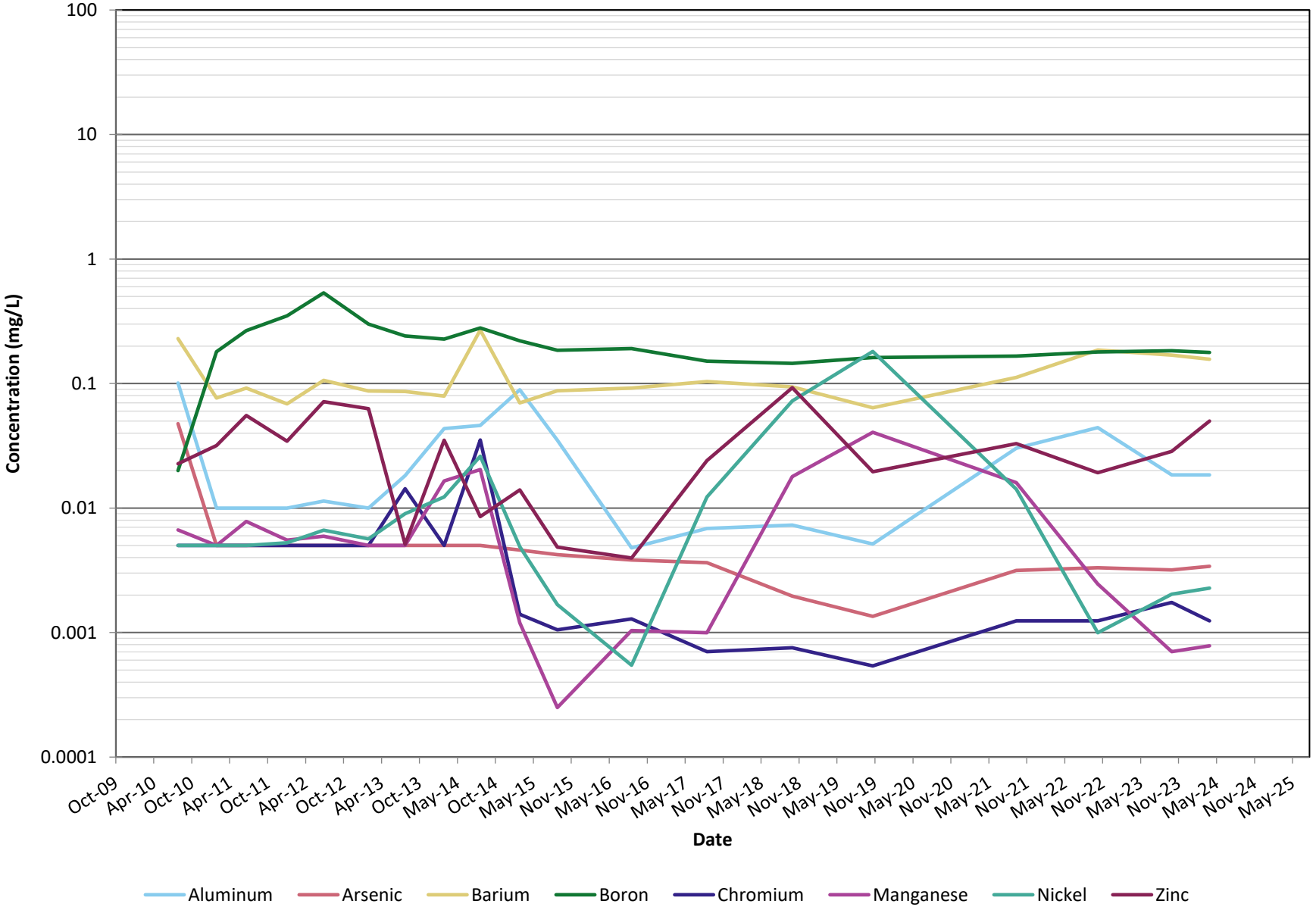


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

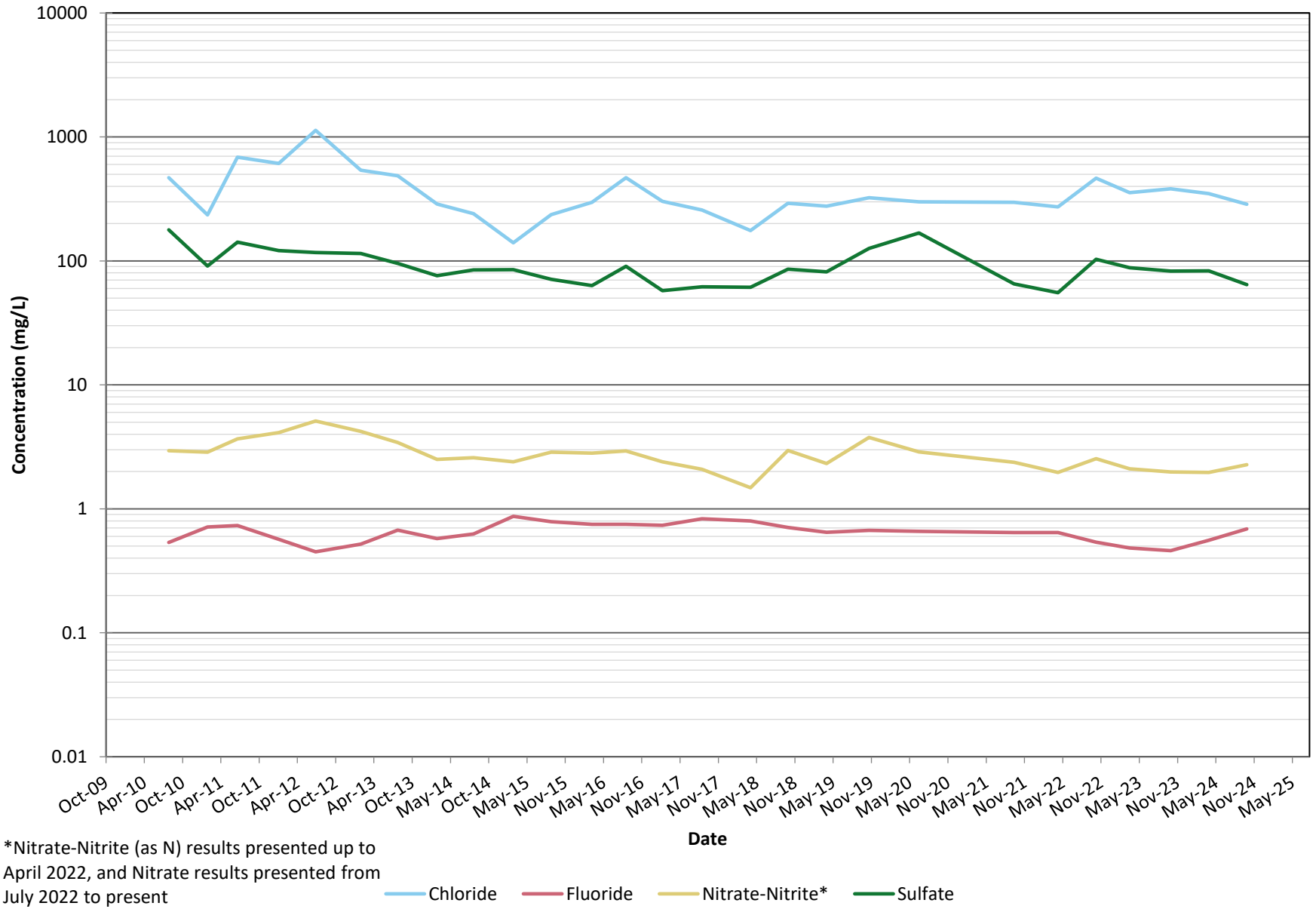
MW-19/MW-19R TDS CONCENTRATIONS OVER TIME



MW-19/MW-19R Metals CONCENTRATIONS OVER TIME

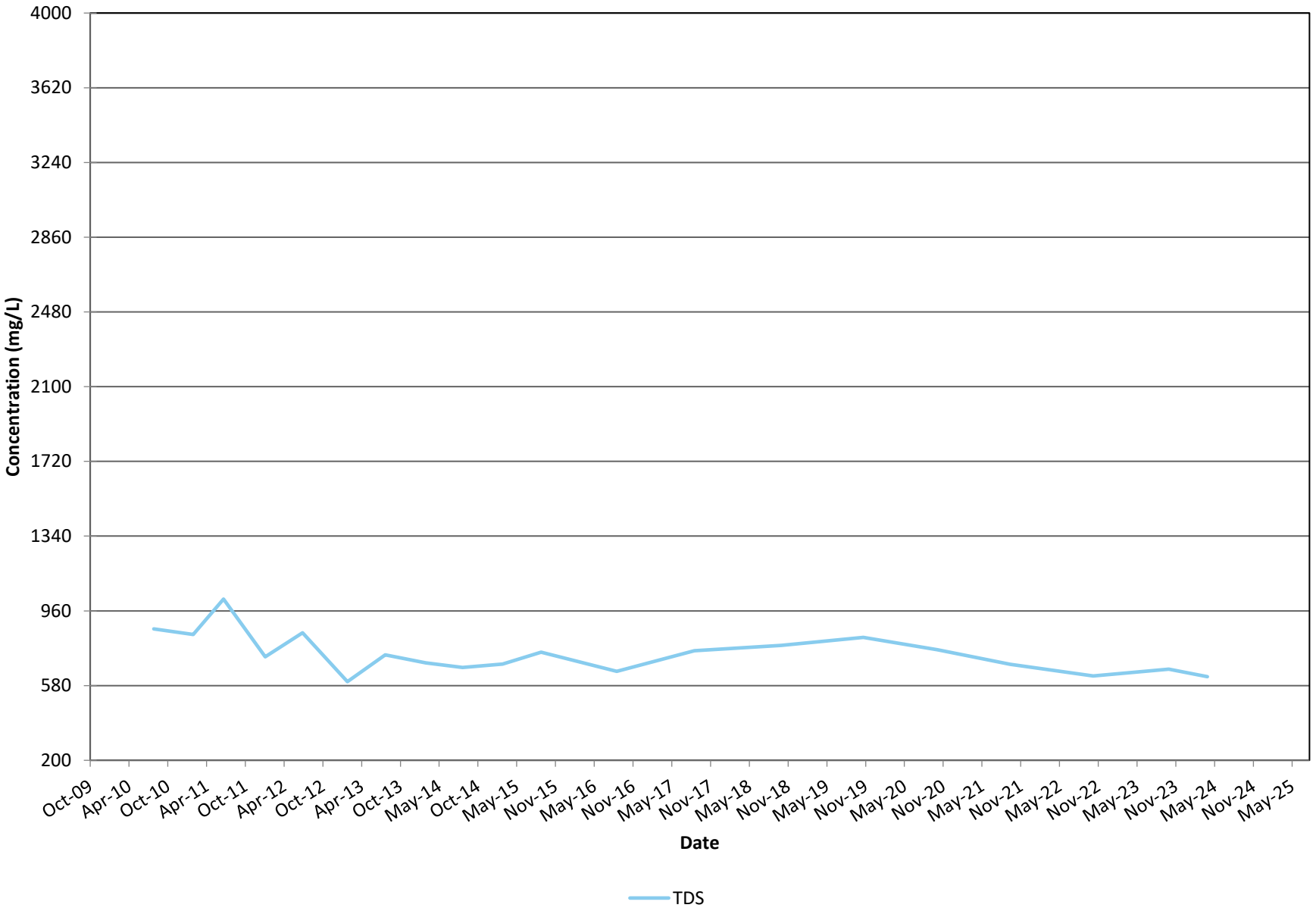


MW-19/MW-19R Anions CONCENTRATIONS OVER TIME

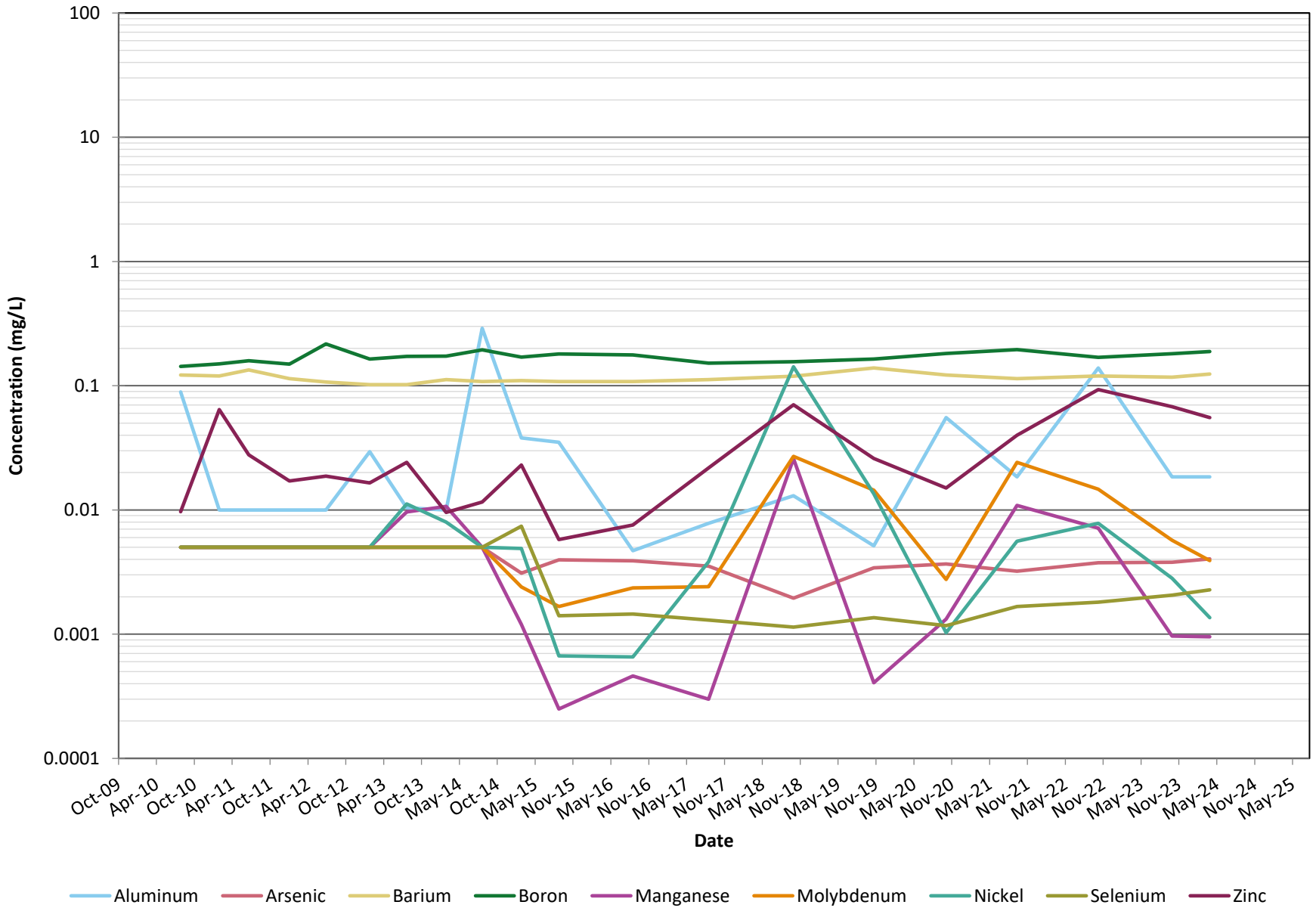


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

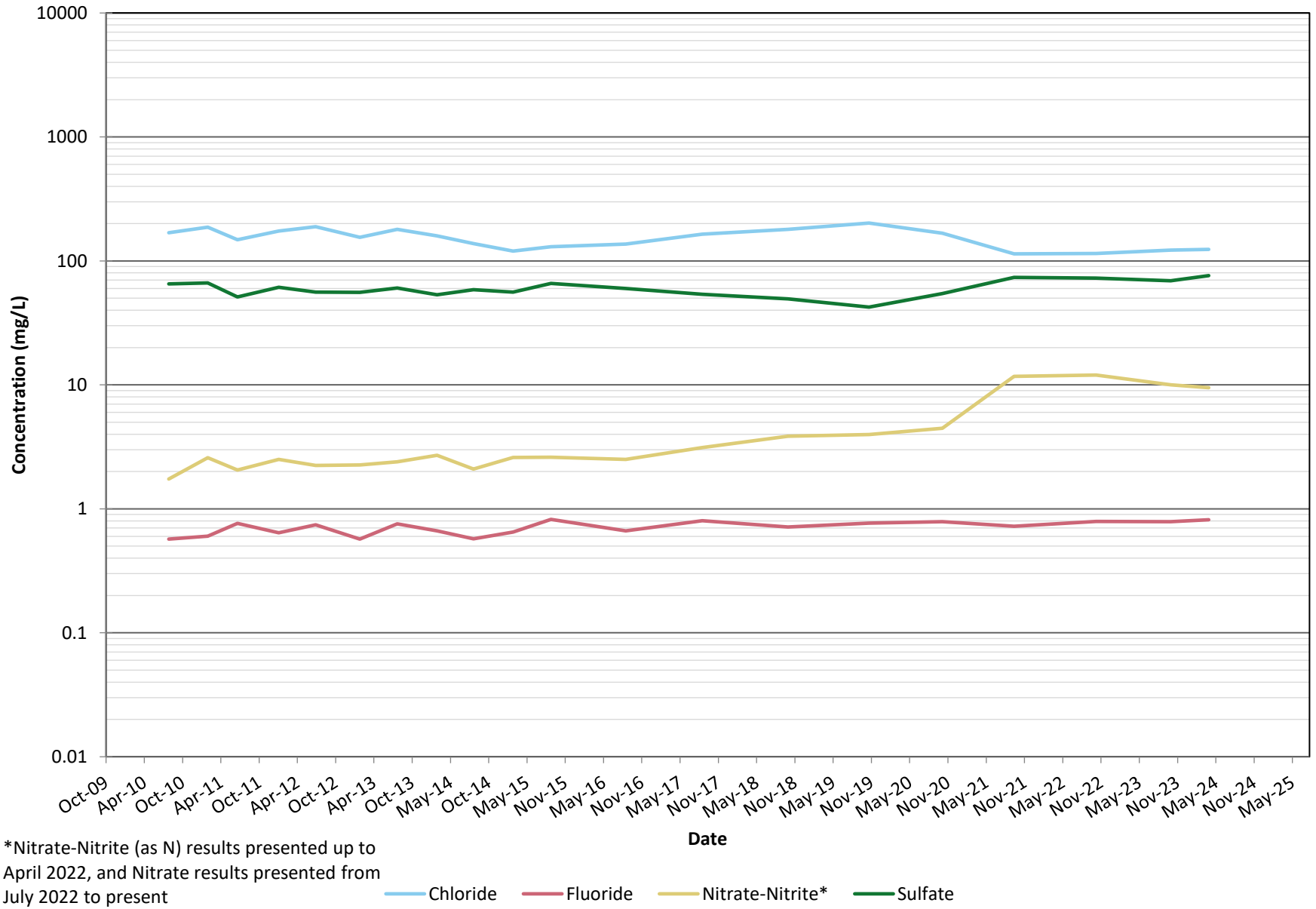
MW-20/MW-20R TDS CONCENTRATIONS OVER TIME



MW-20/MW-20R Metals CONCENTRATIONS OVER TIME

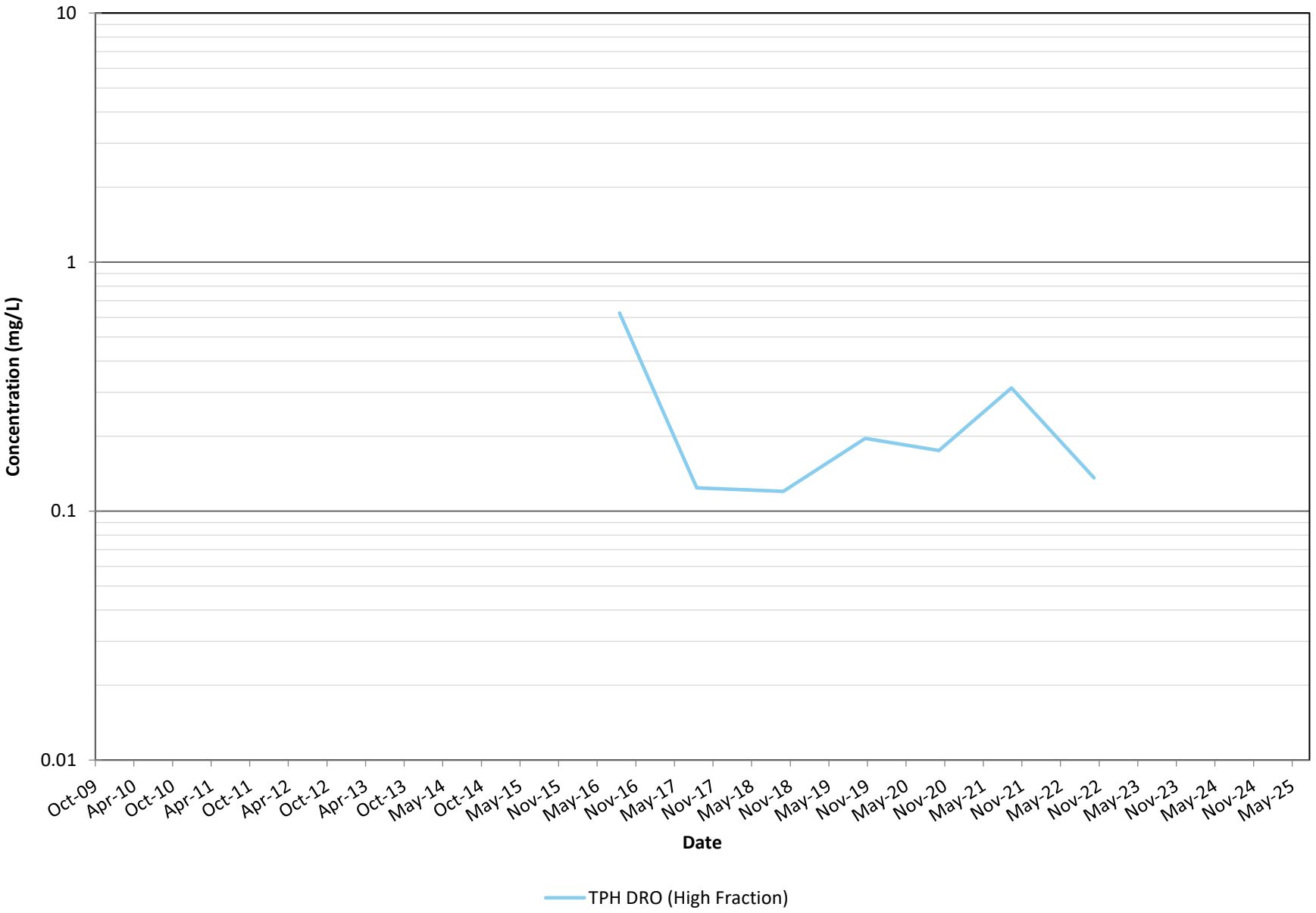


MW-20/MW-20R Anions CONCENTRATIONS OVER TIME

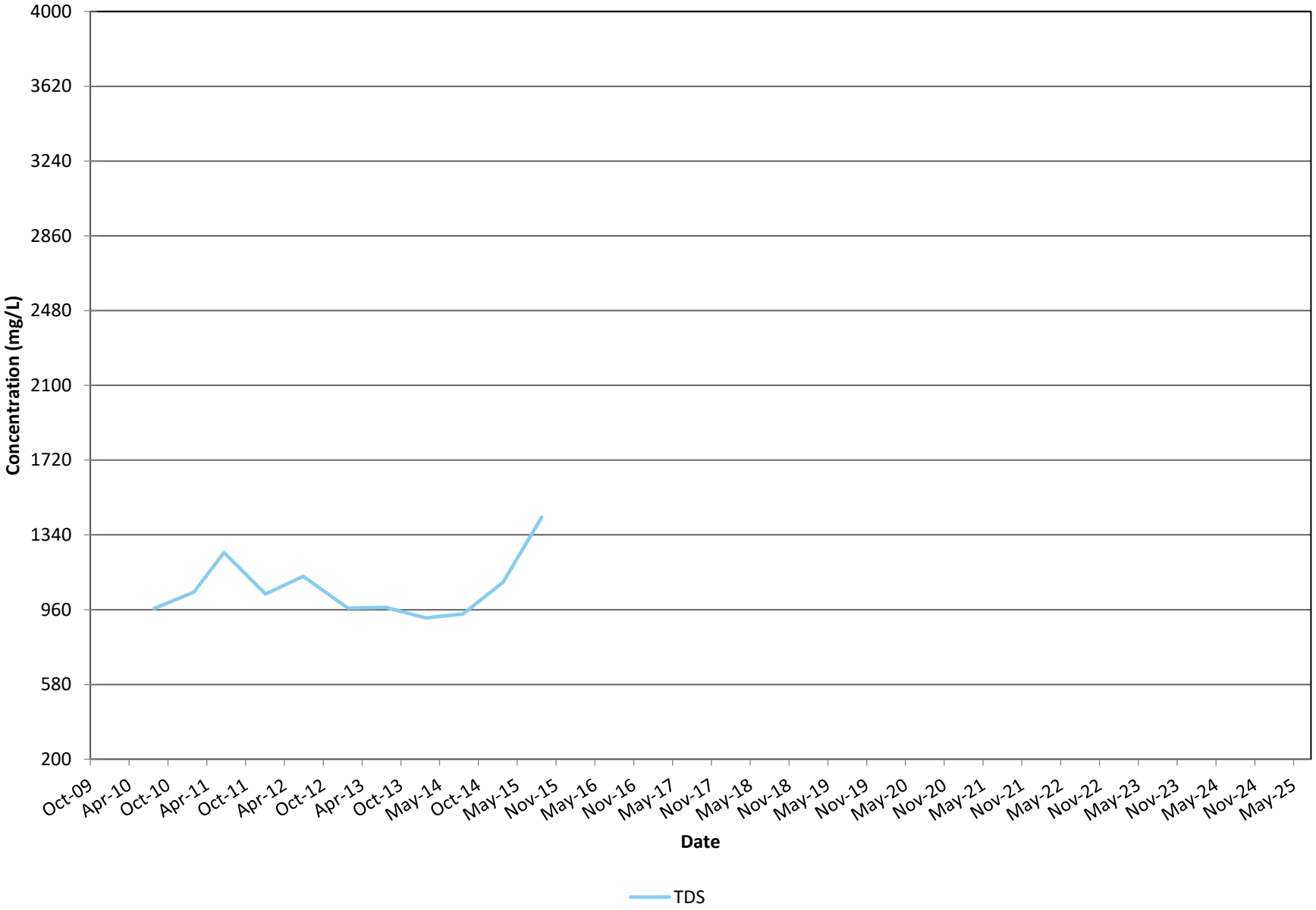


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

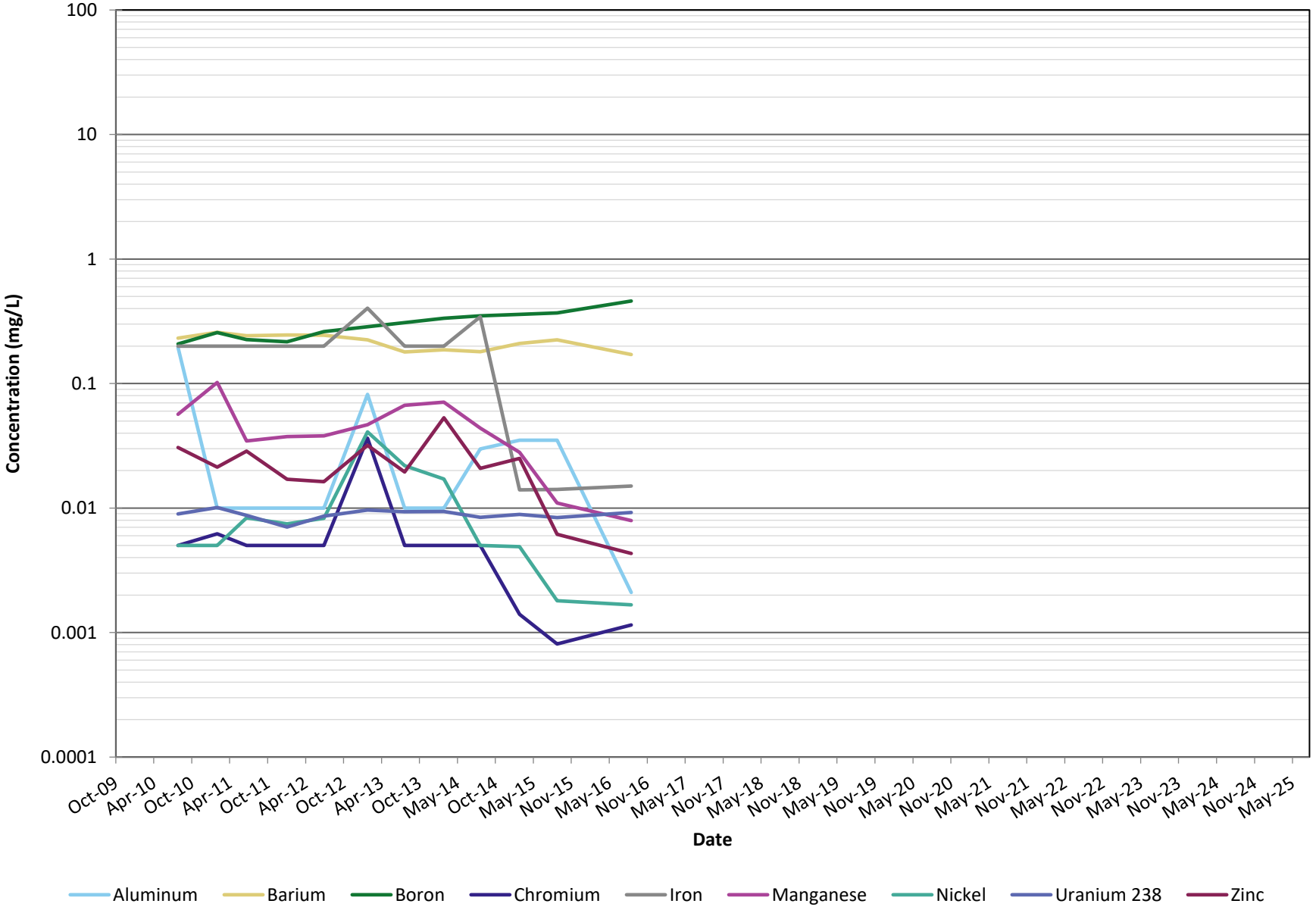
MW-21 TPH CONCENTRATIONS OVER TIME



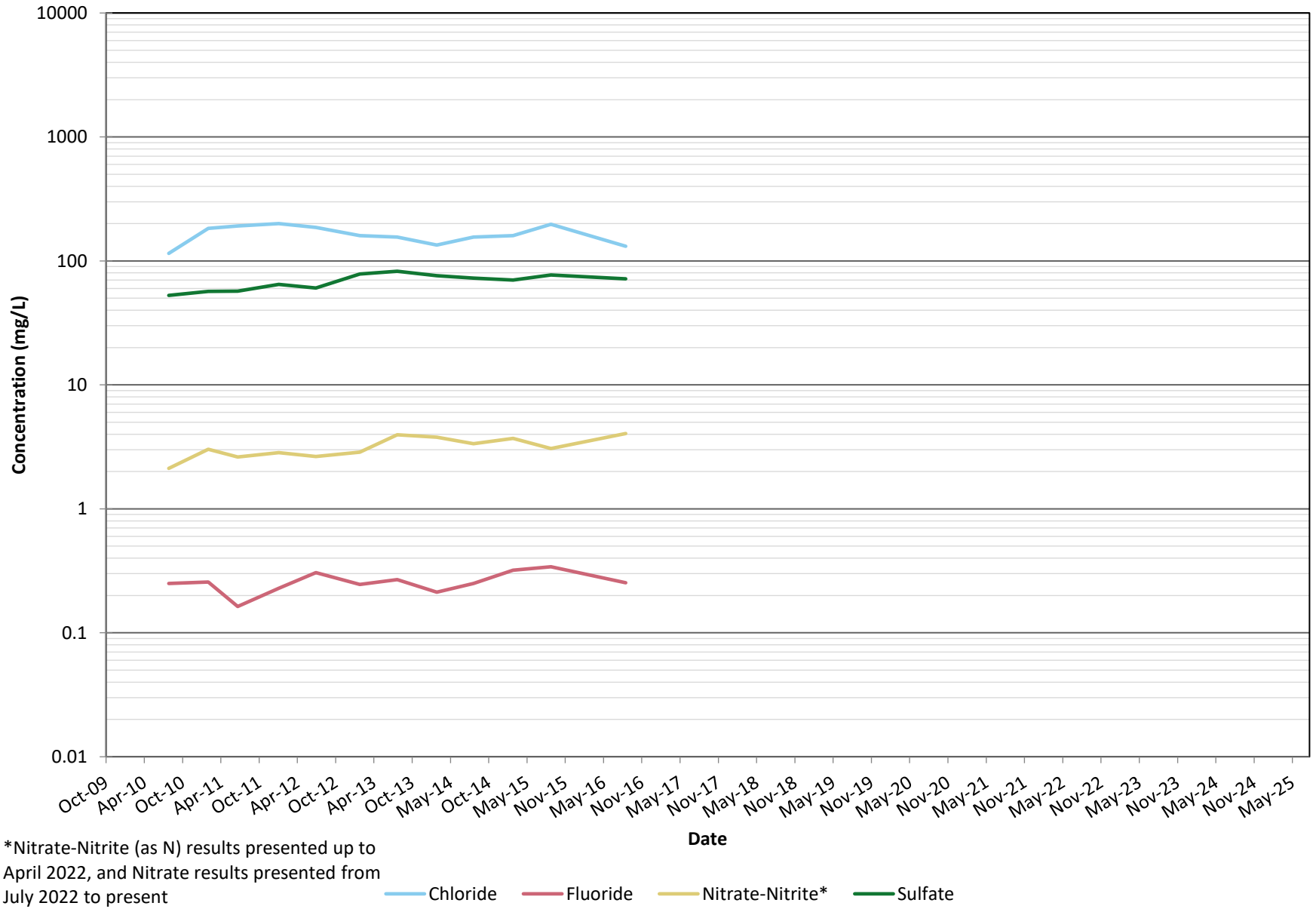
MW-21 TDS CONCENTRATIONS OVER TIME



MW-21 Metals CONCENTRATIONS OVER TIME

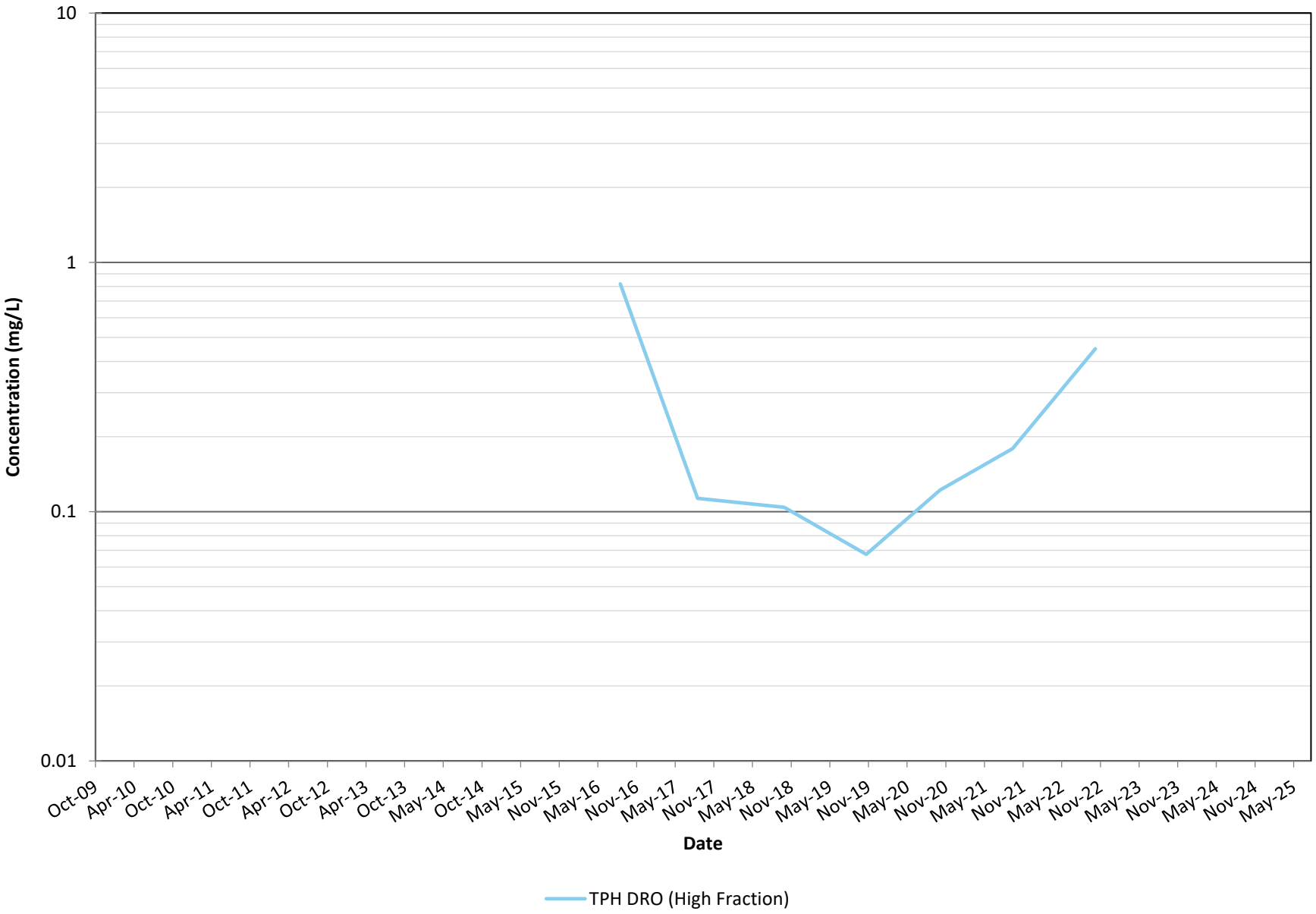


MW-21 Anions CONCENTRATIONS OVER TIME

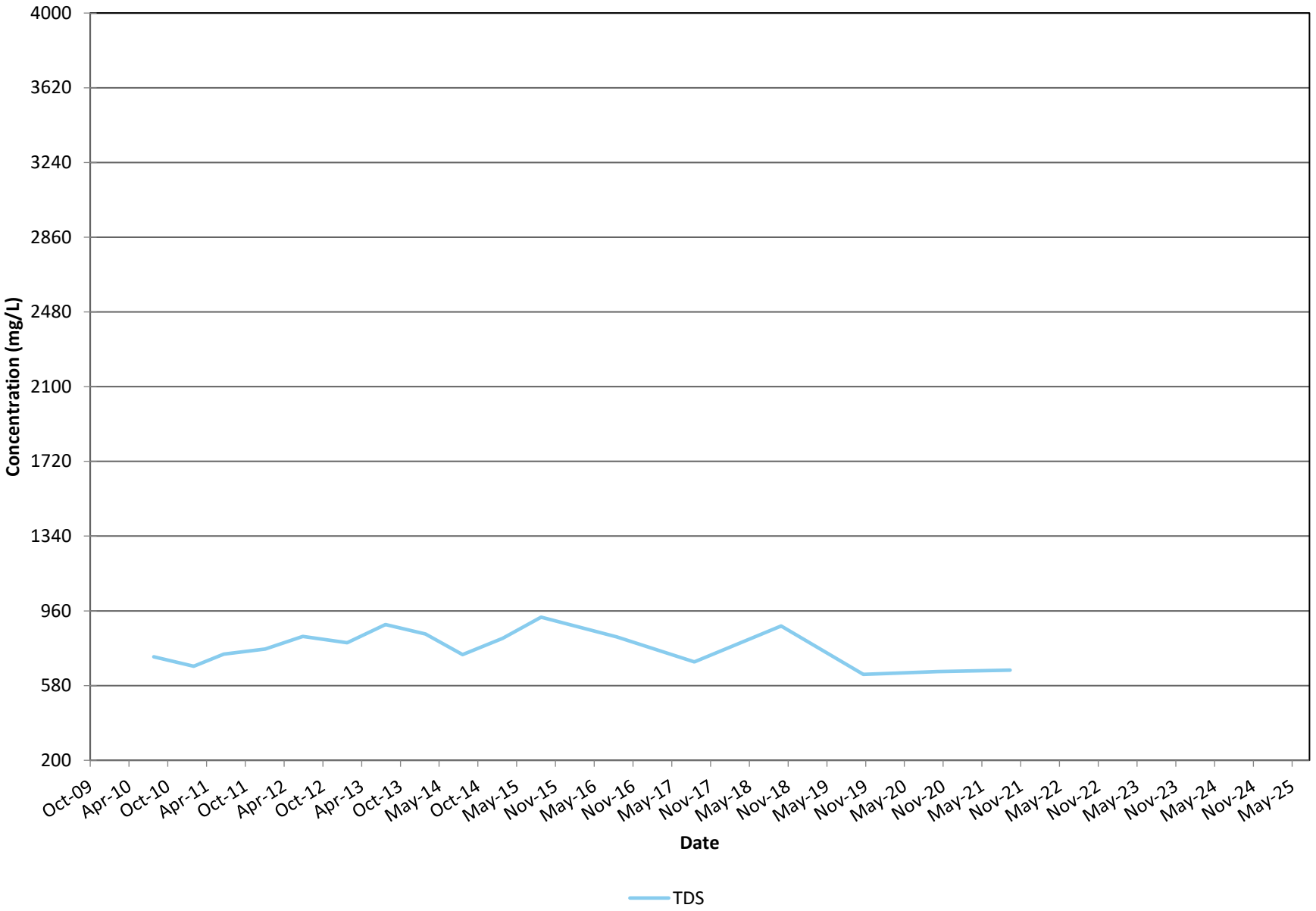


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

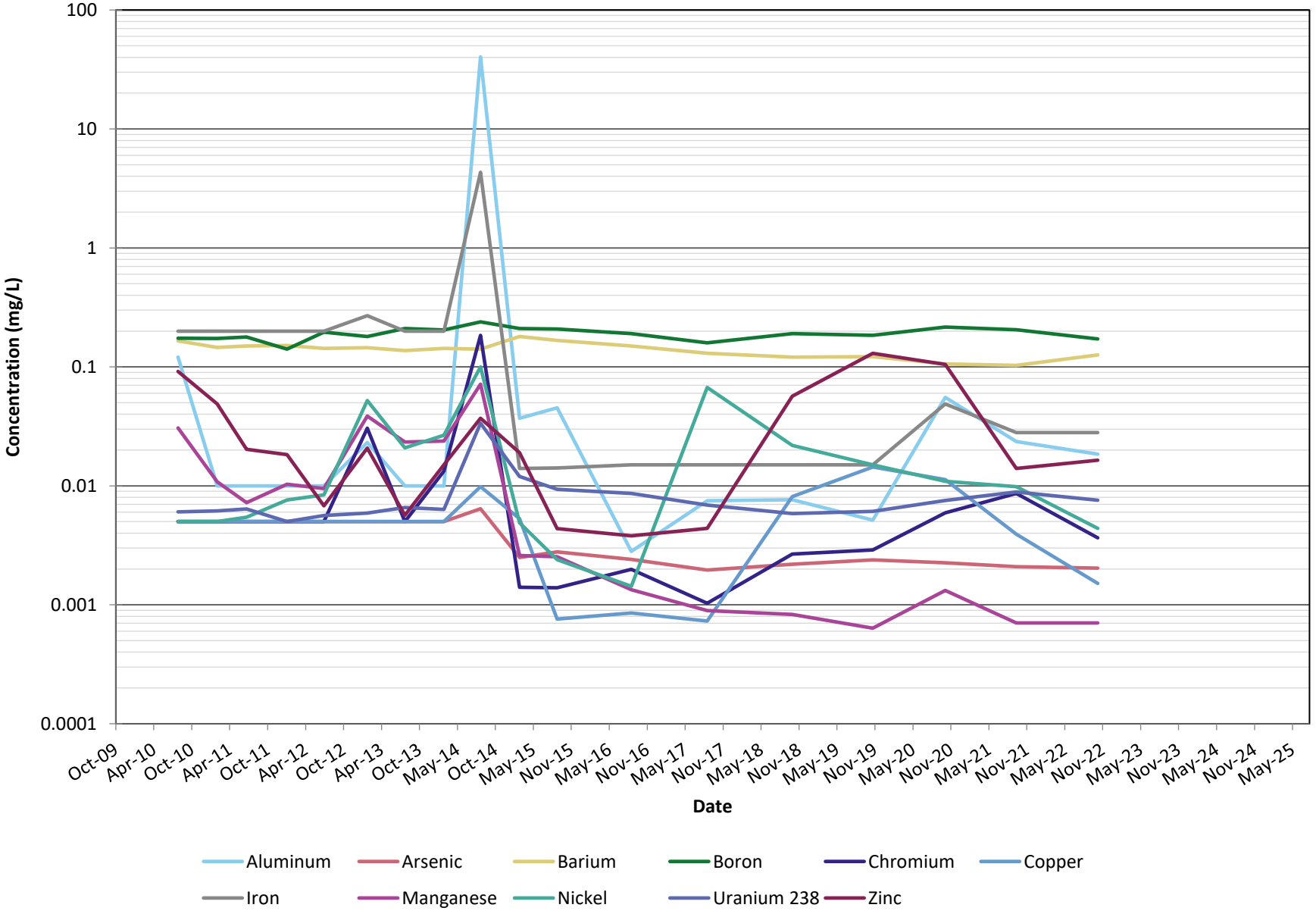
MW-22 TPH CONCENTRATIONS OVER TIME



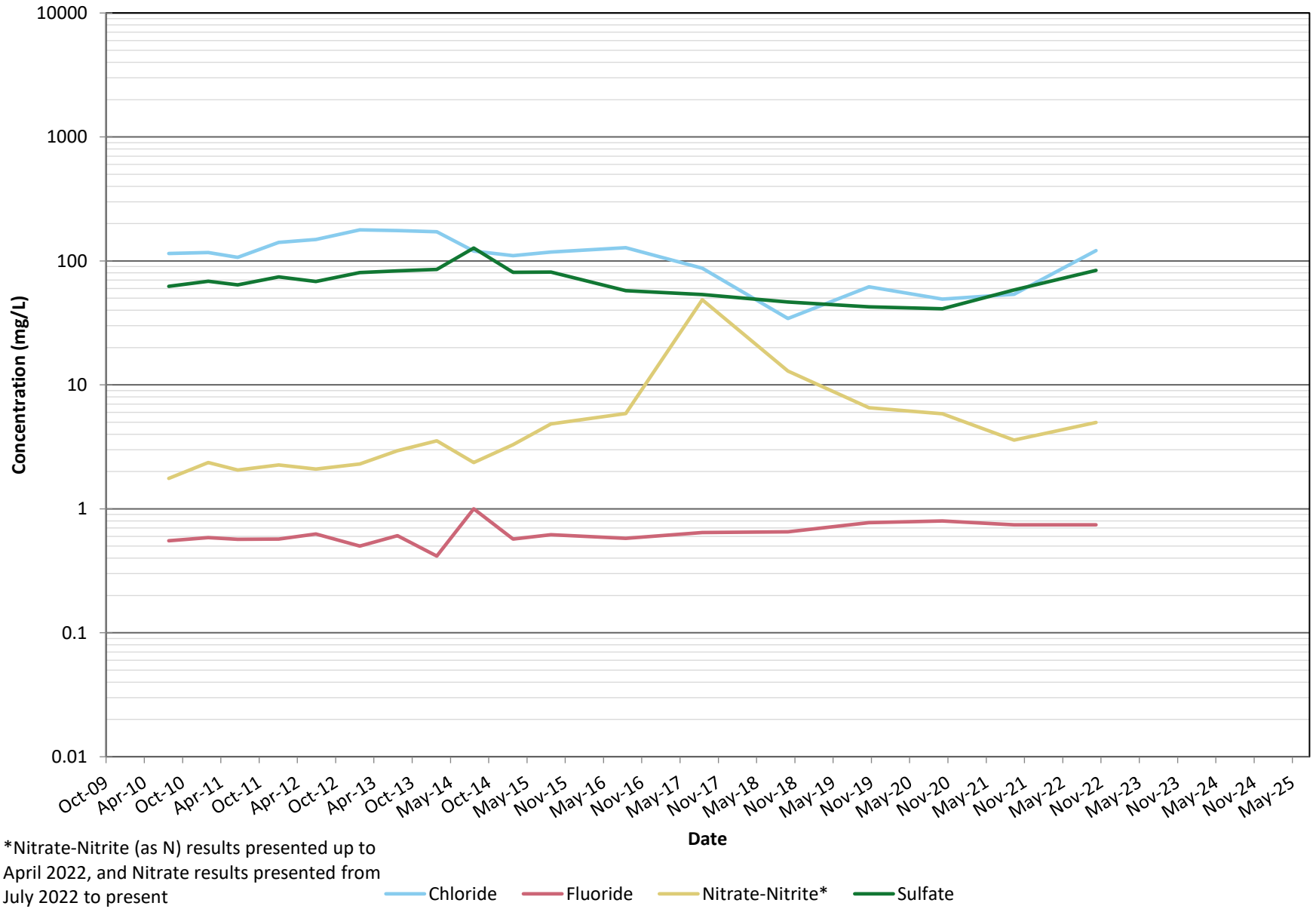
MW-22 TDS CONCENTRATIONS OVER TIME



MW-22 Metals CONCENTRATIONS OVER TIME

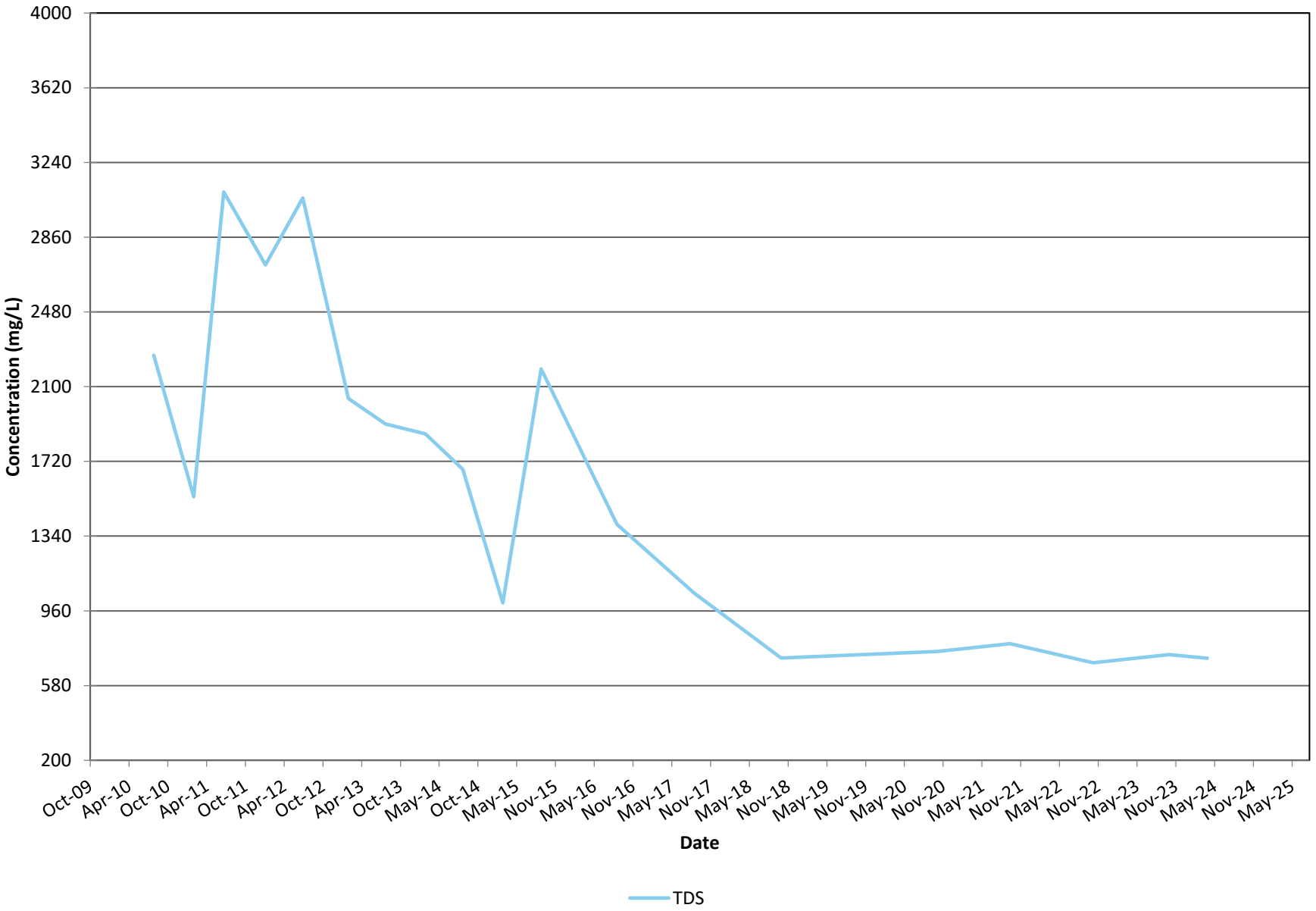


MW-22 Anions CONCENTRATIONS OVER TIME

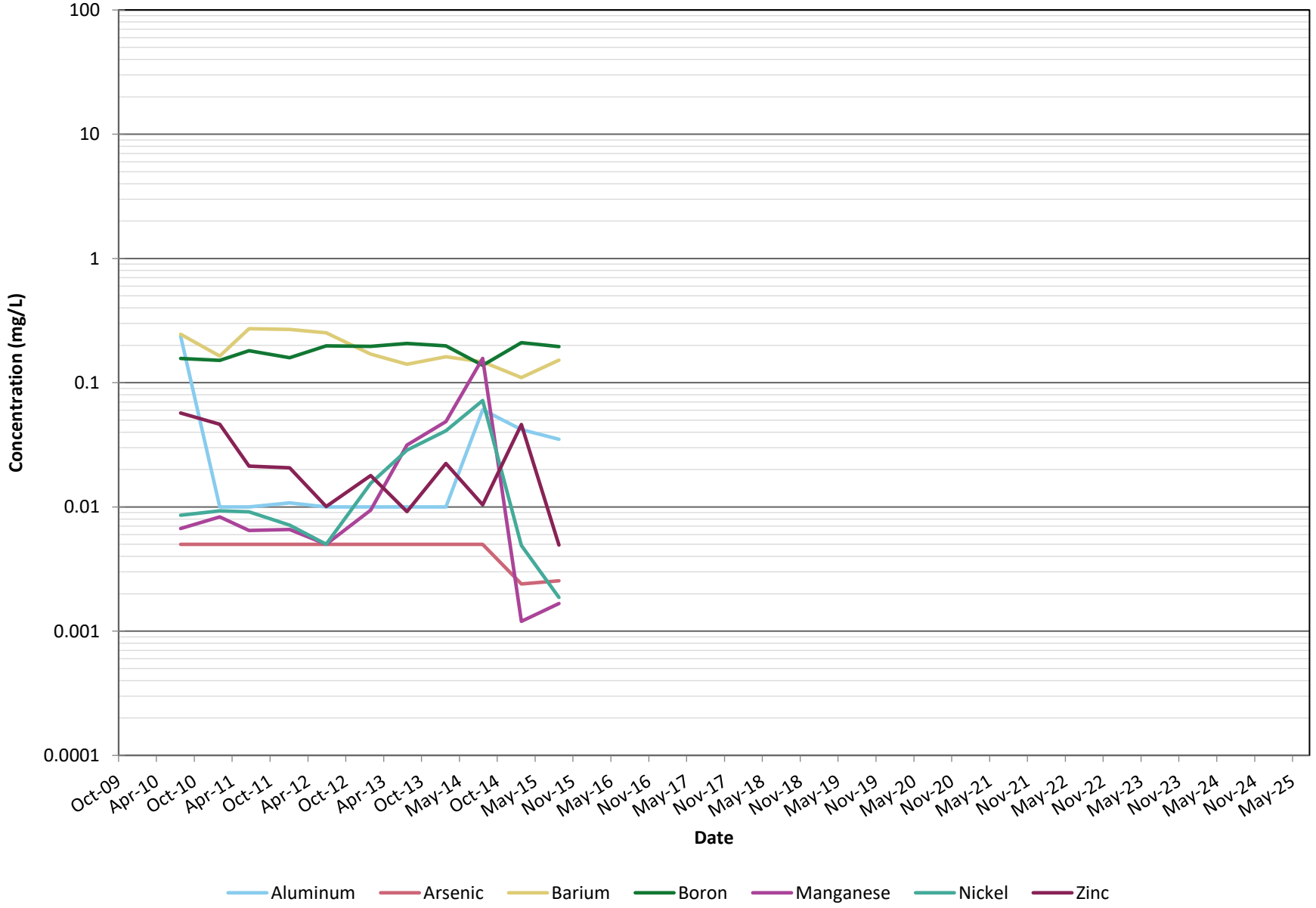


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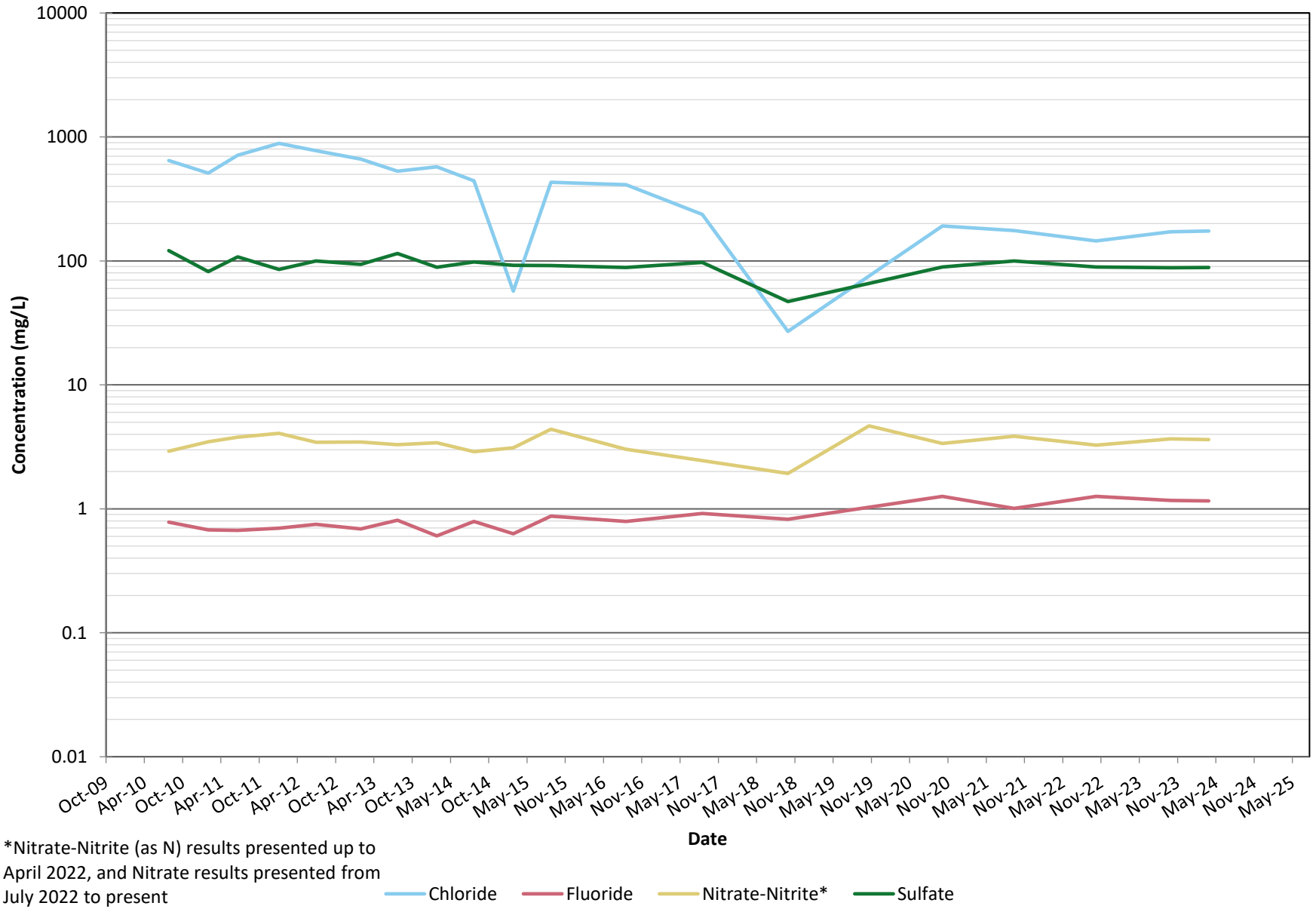
MW-23/MW-23R TDS CONCENTRATIONS OVER TIME



MW-23/MW-23R Metals CONCENTRATIONS OVER TIME

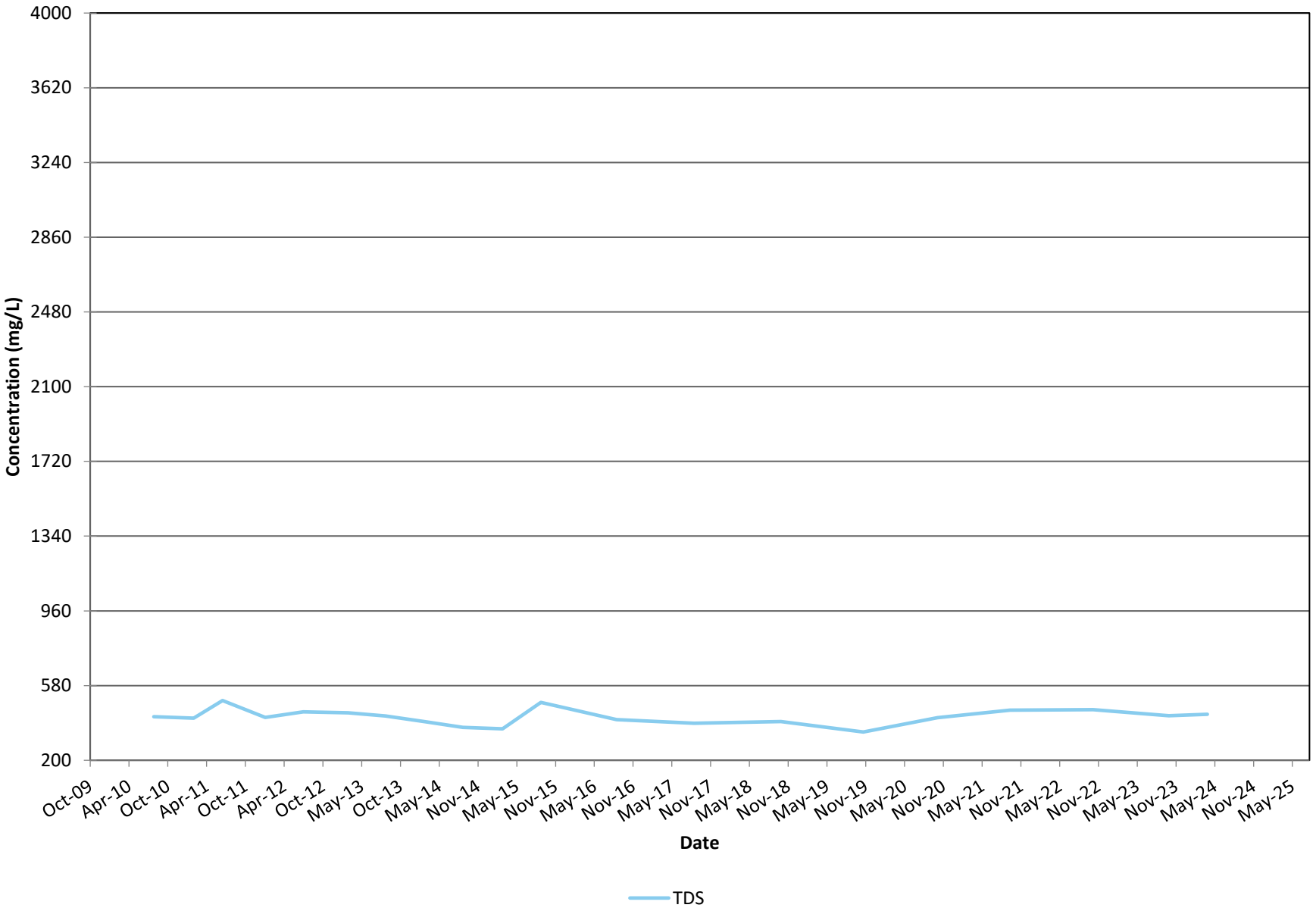


MW-23/MW-23R Anions CONCENTRATIONS OVER TIME

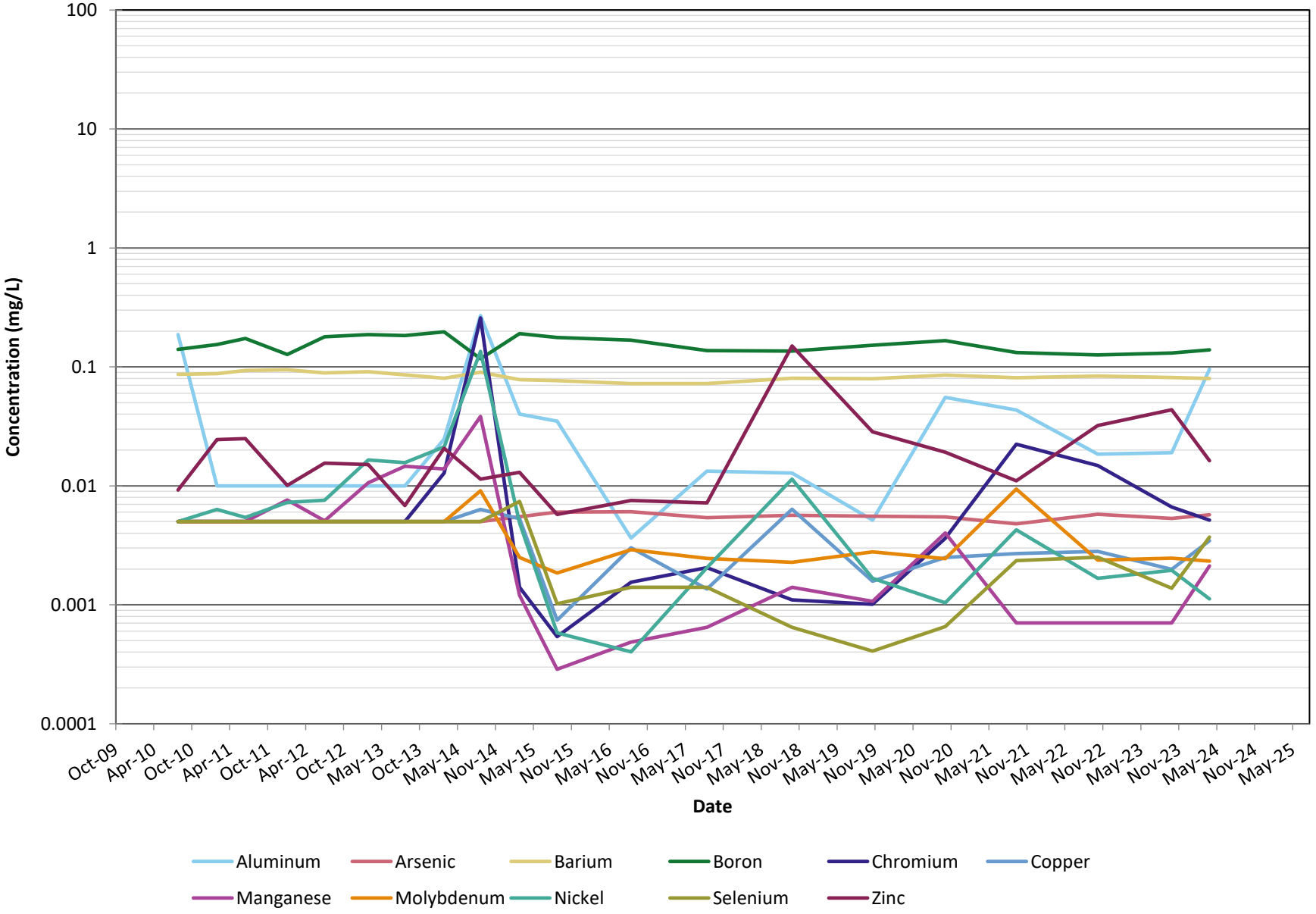


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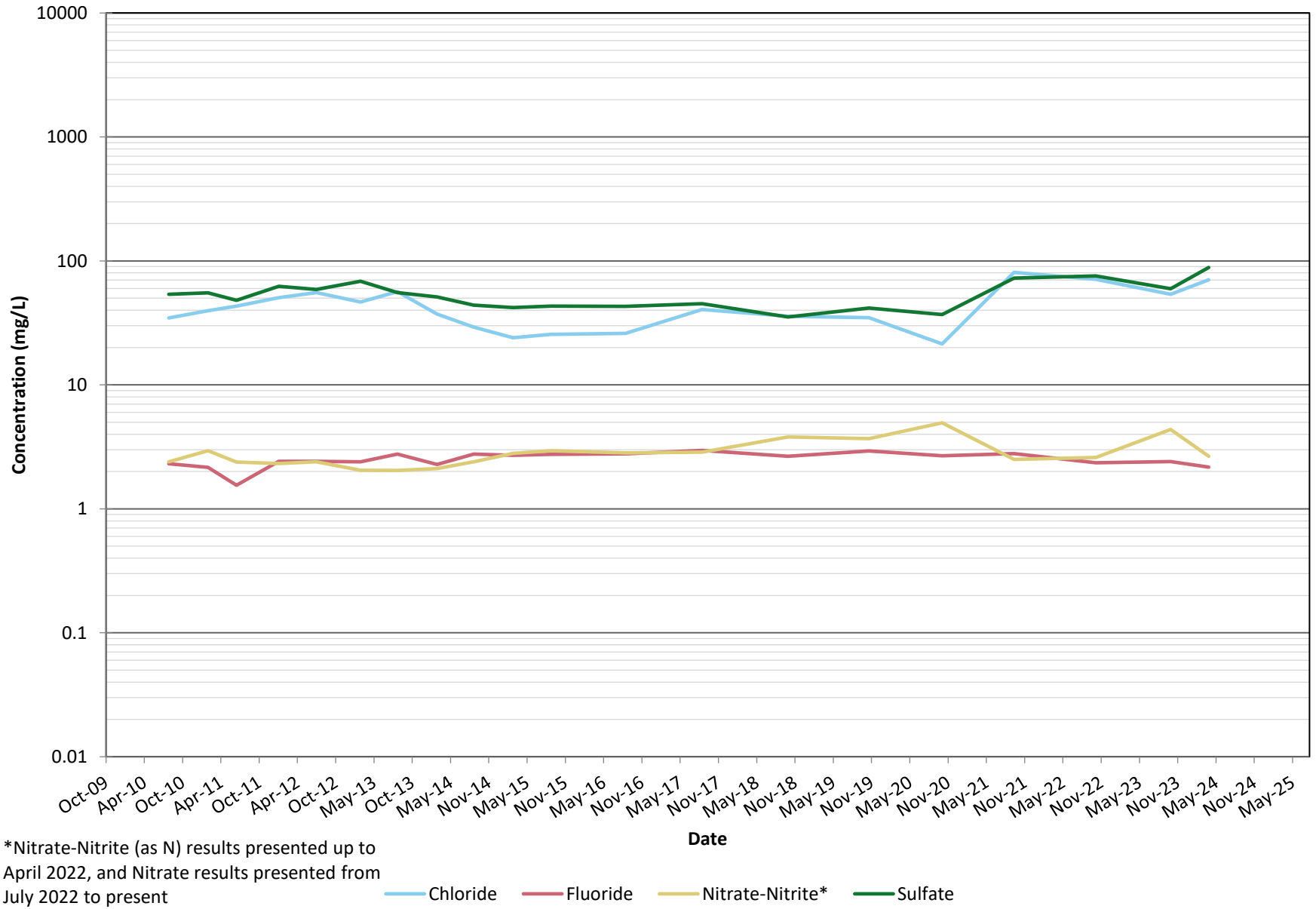
MW-24/MW-24R TDS CONCENTRATIONS OVER TIME



MW-24/MW-24R Metals CONCENTRATIONS OVER TIME

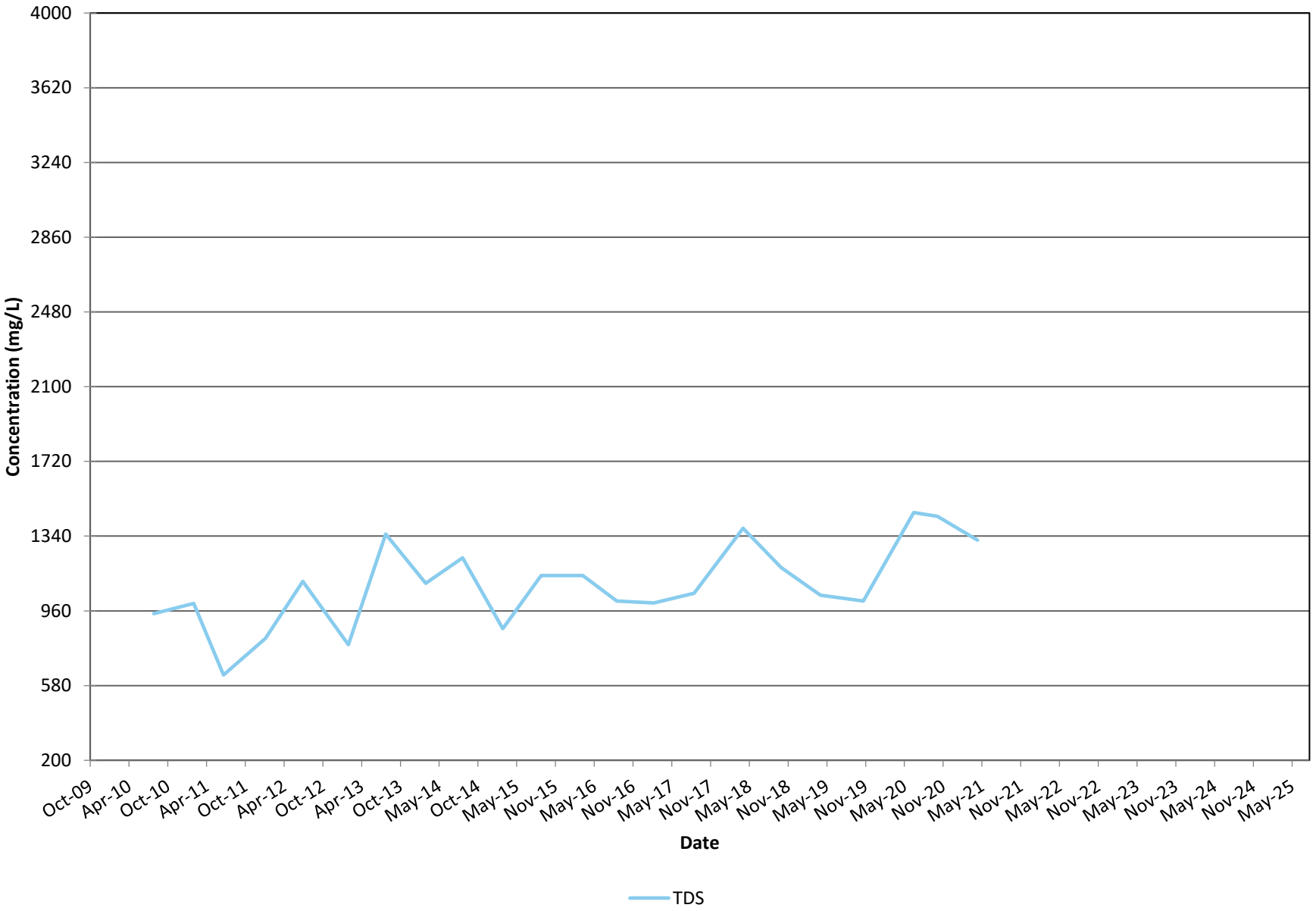


MW-24/MW-24R Anions CONCENTRATIONS OVER TIME

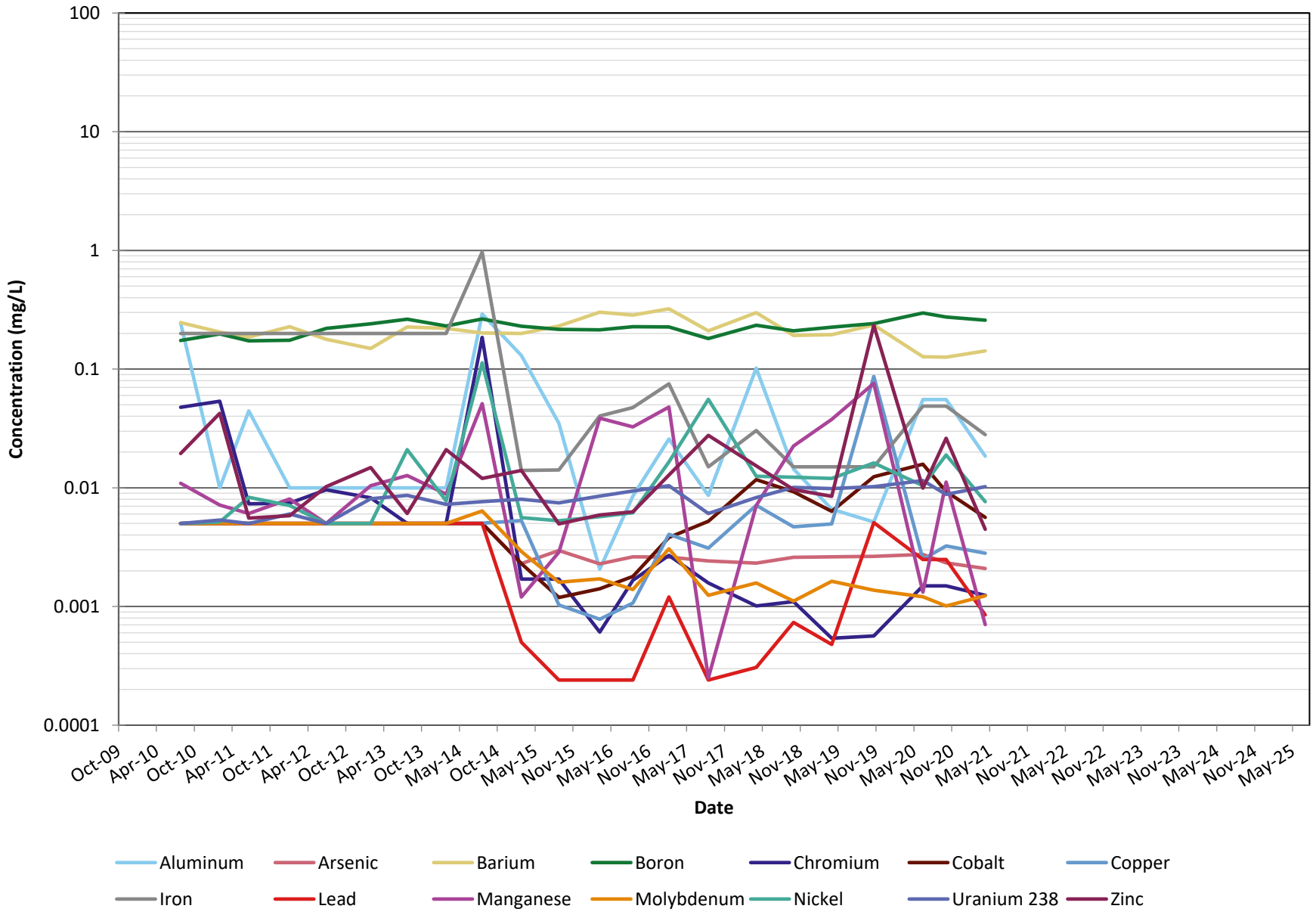


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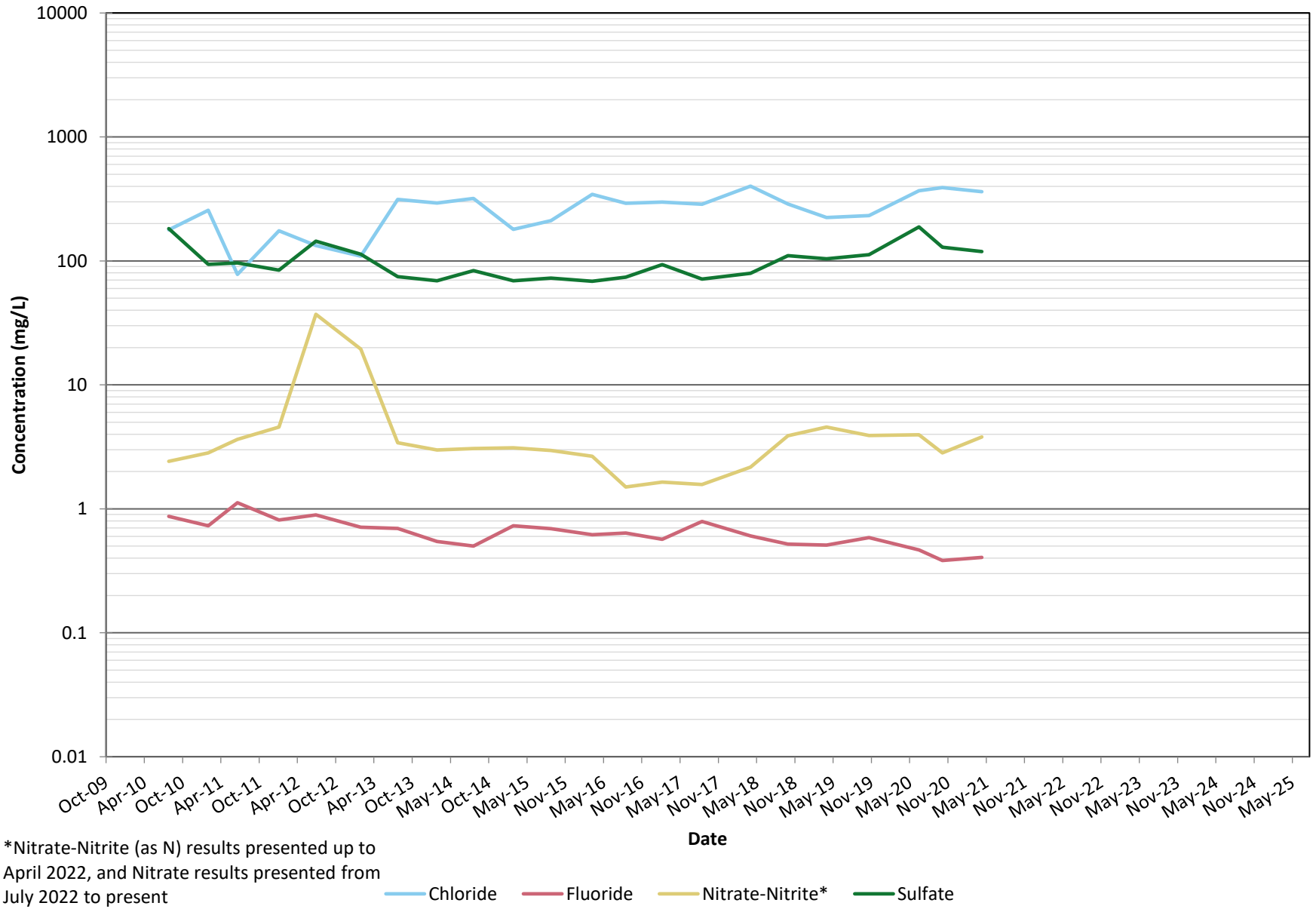
MW-25 TDS CONCENTRATIONS OVER TIME



MW-25 Metals CONCENTRATIONS OVER TIME

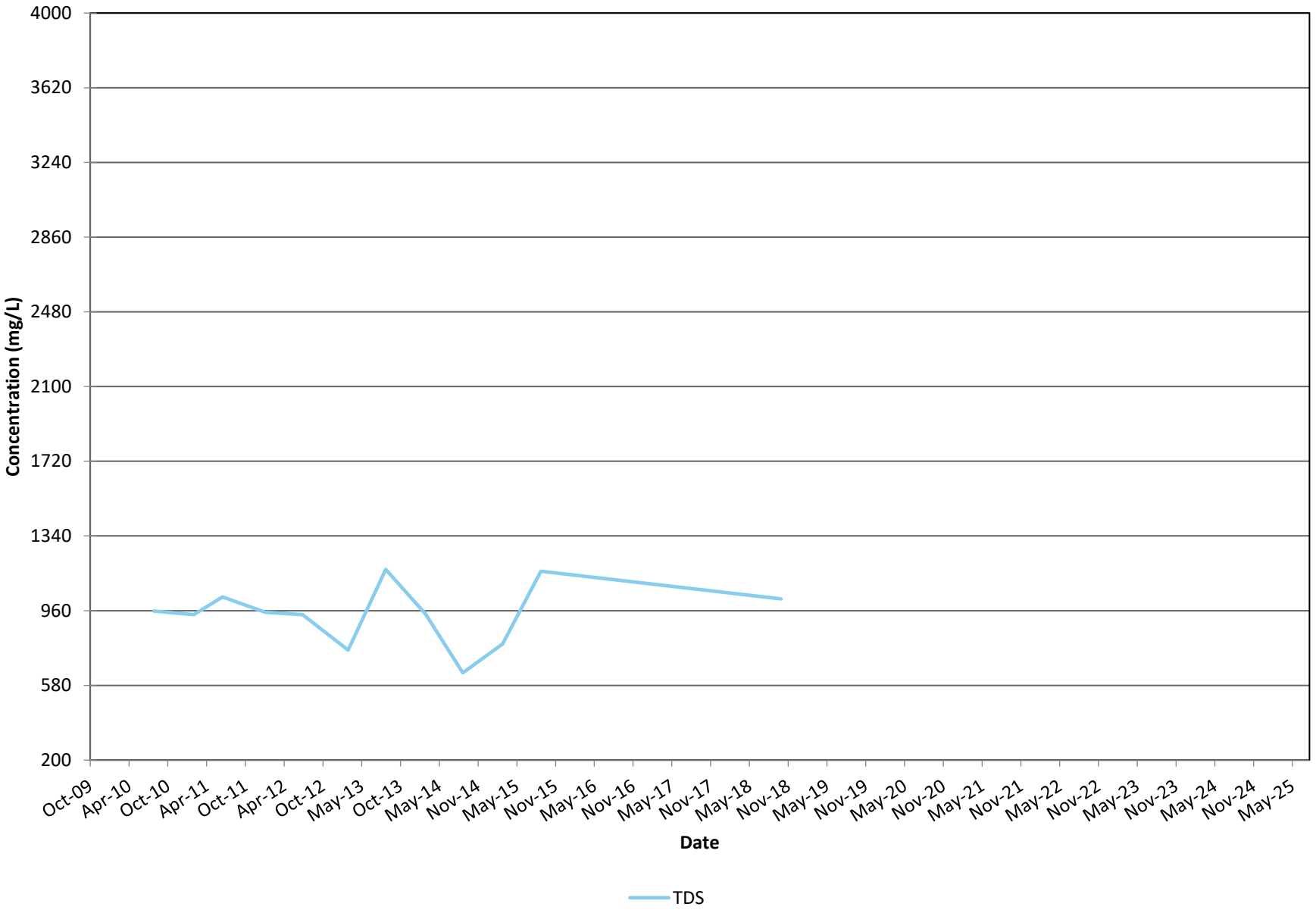


MW-25 Anions CONCENTRATIONS OVER TIME

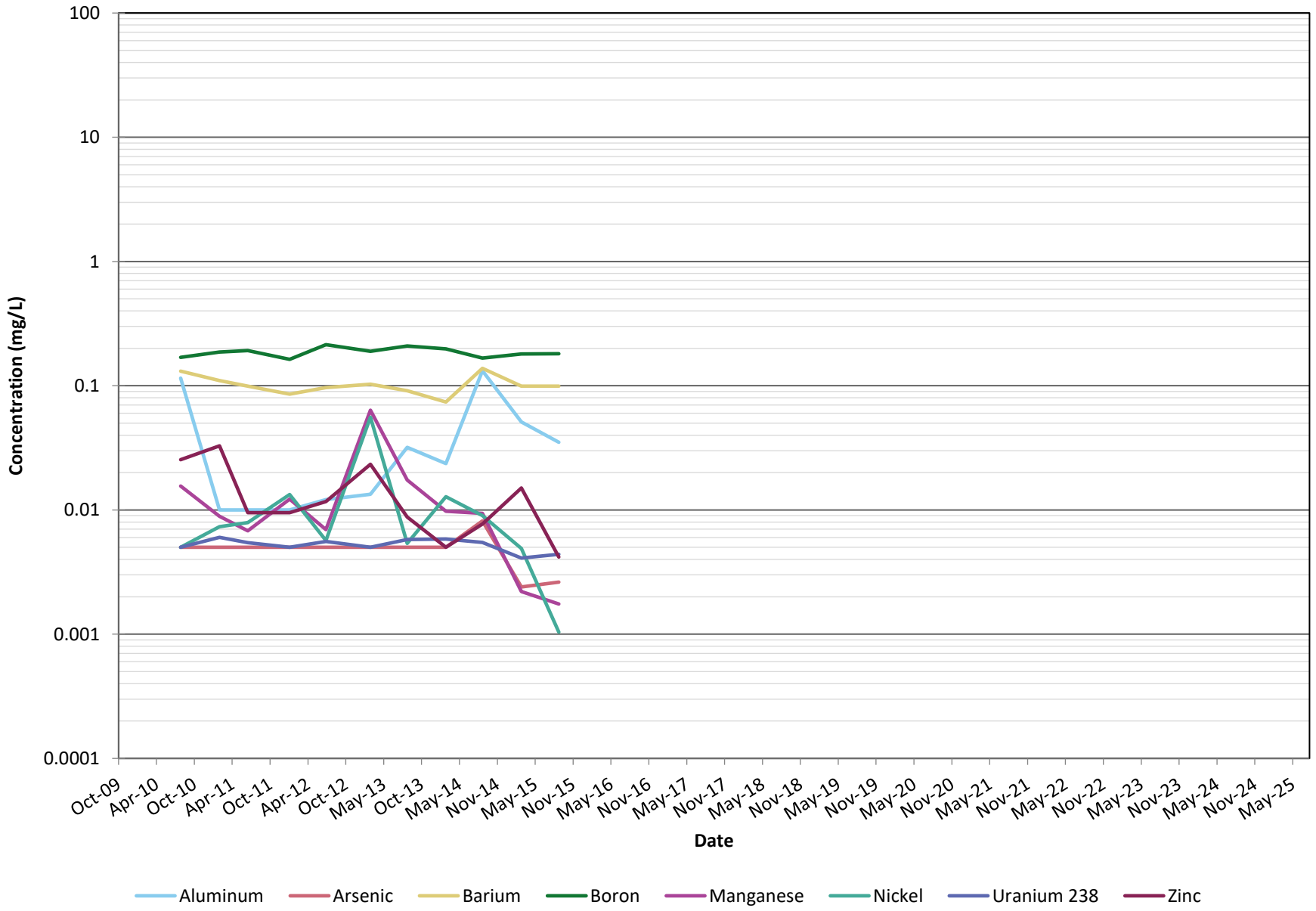


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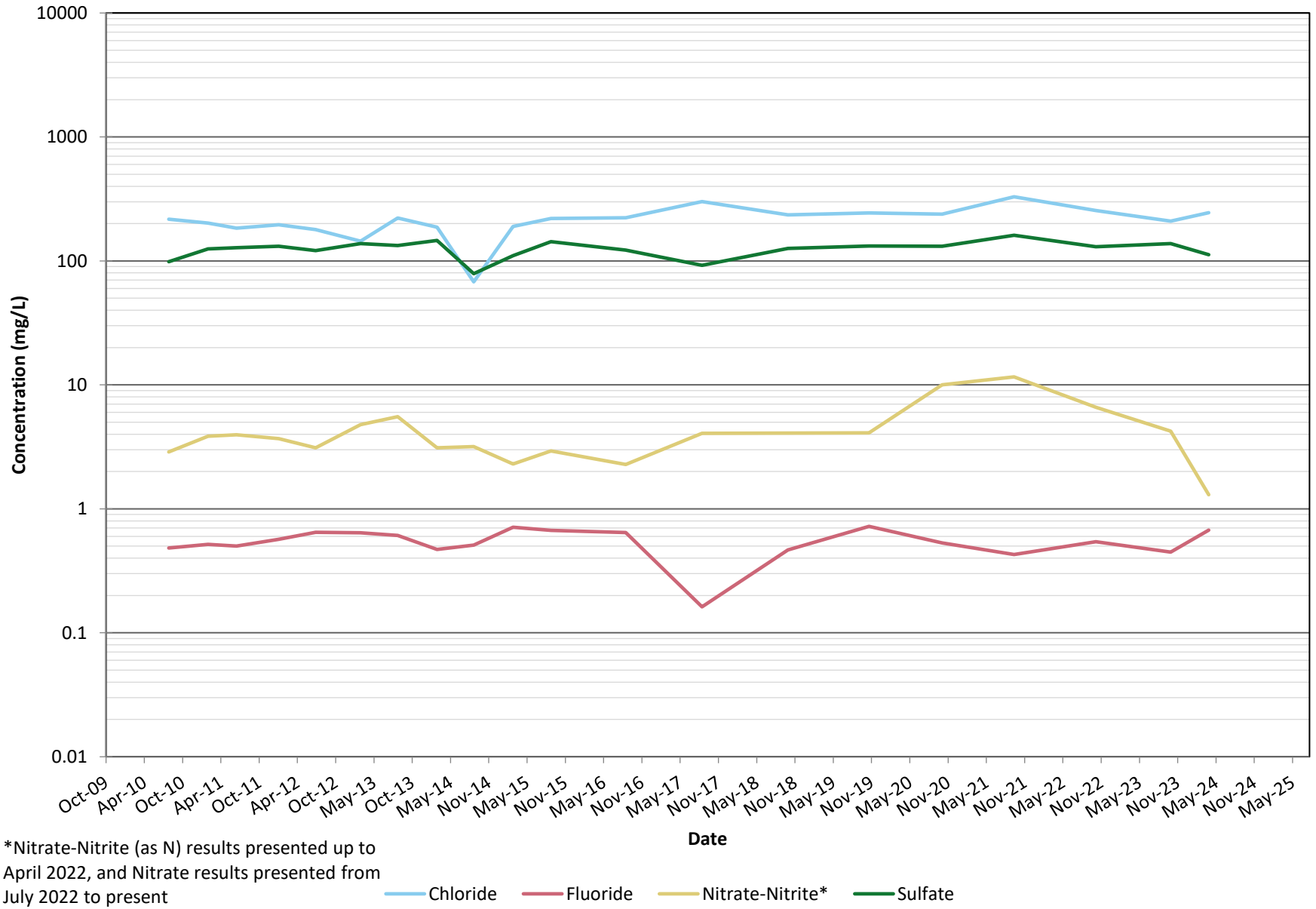
MW-26/MW-26R TDS CONCENTRATIONS OVER TIME



MW-26/MW-26R Metals CONCENTRATIONS OVER TIME

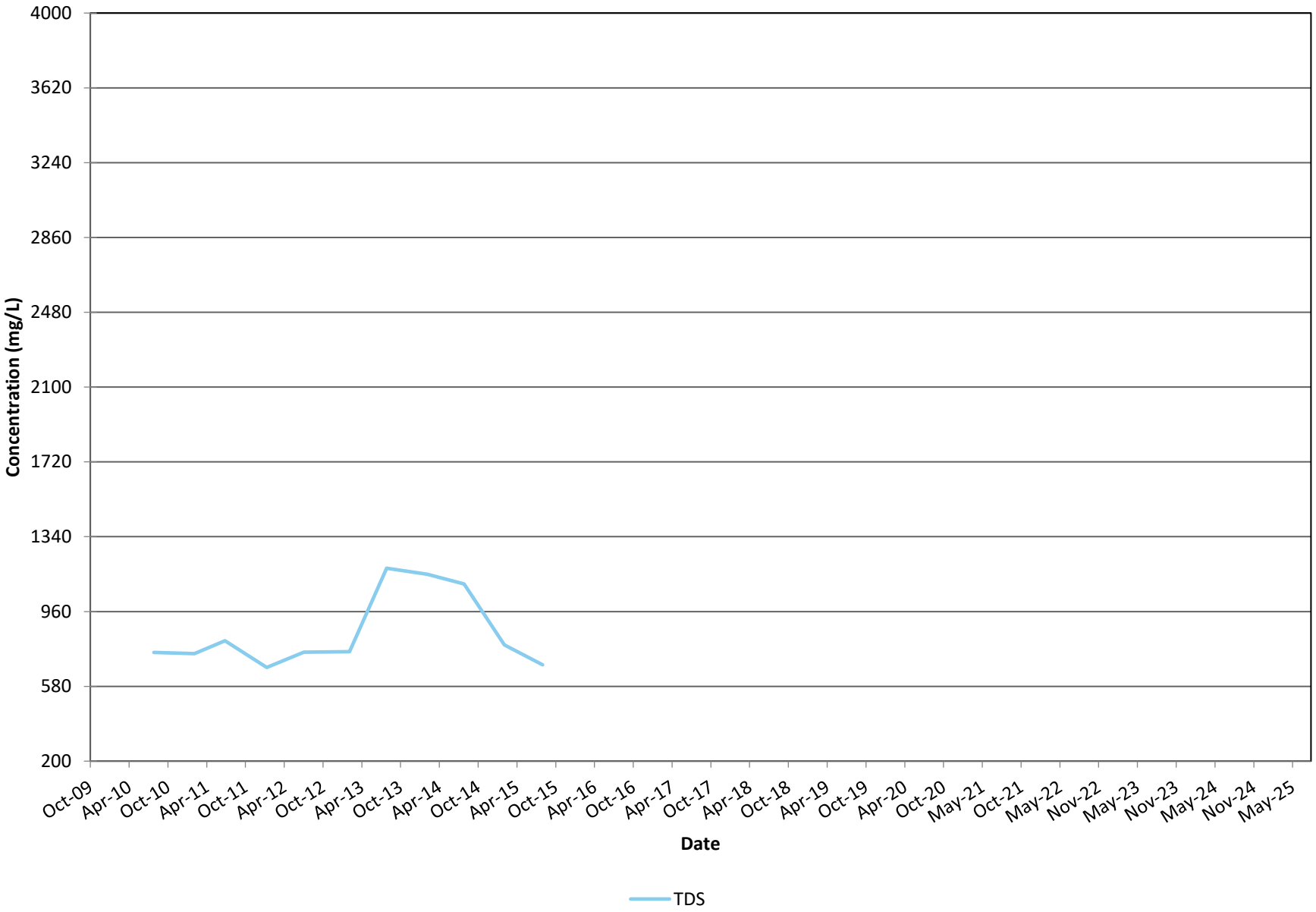


MW-26/MW-26R Anions CONCENTRATIONS OVER TIME

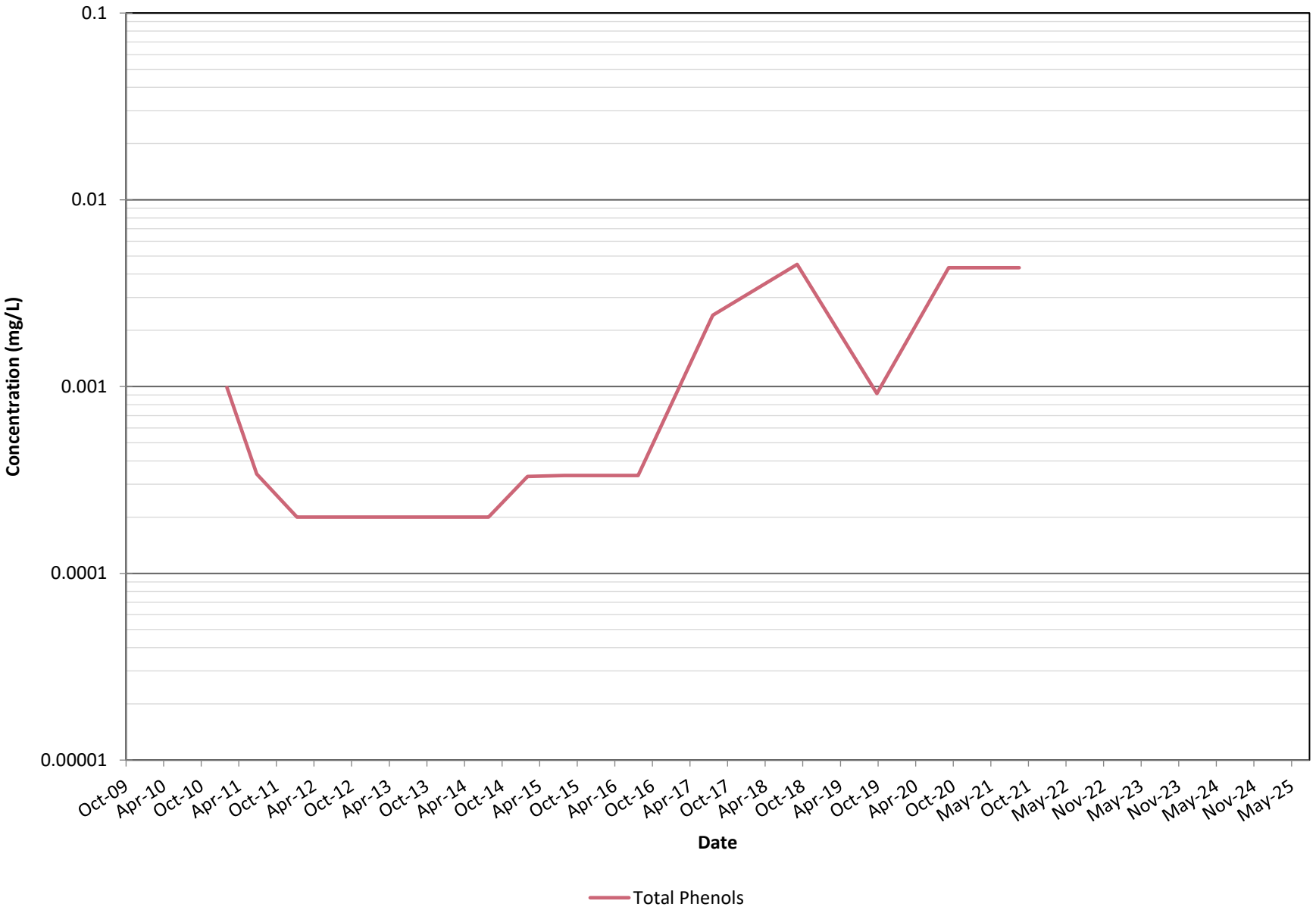


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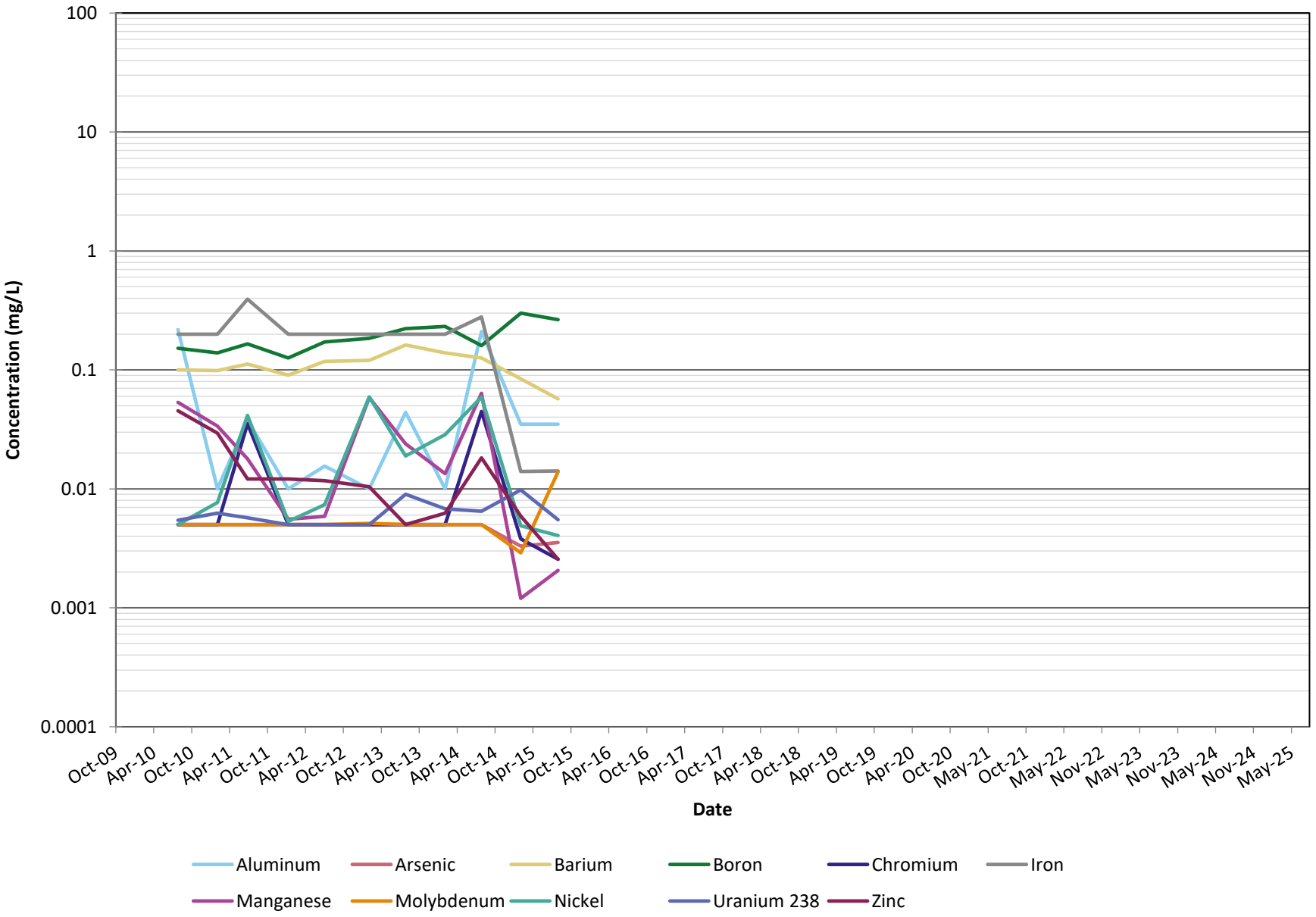
MW-27 TDS CONCENTRATIONS OVER TIME



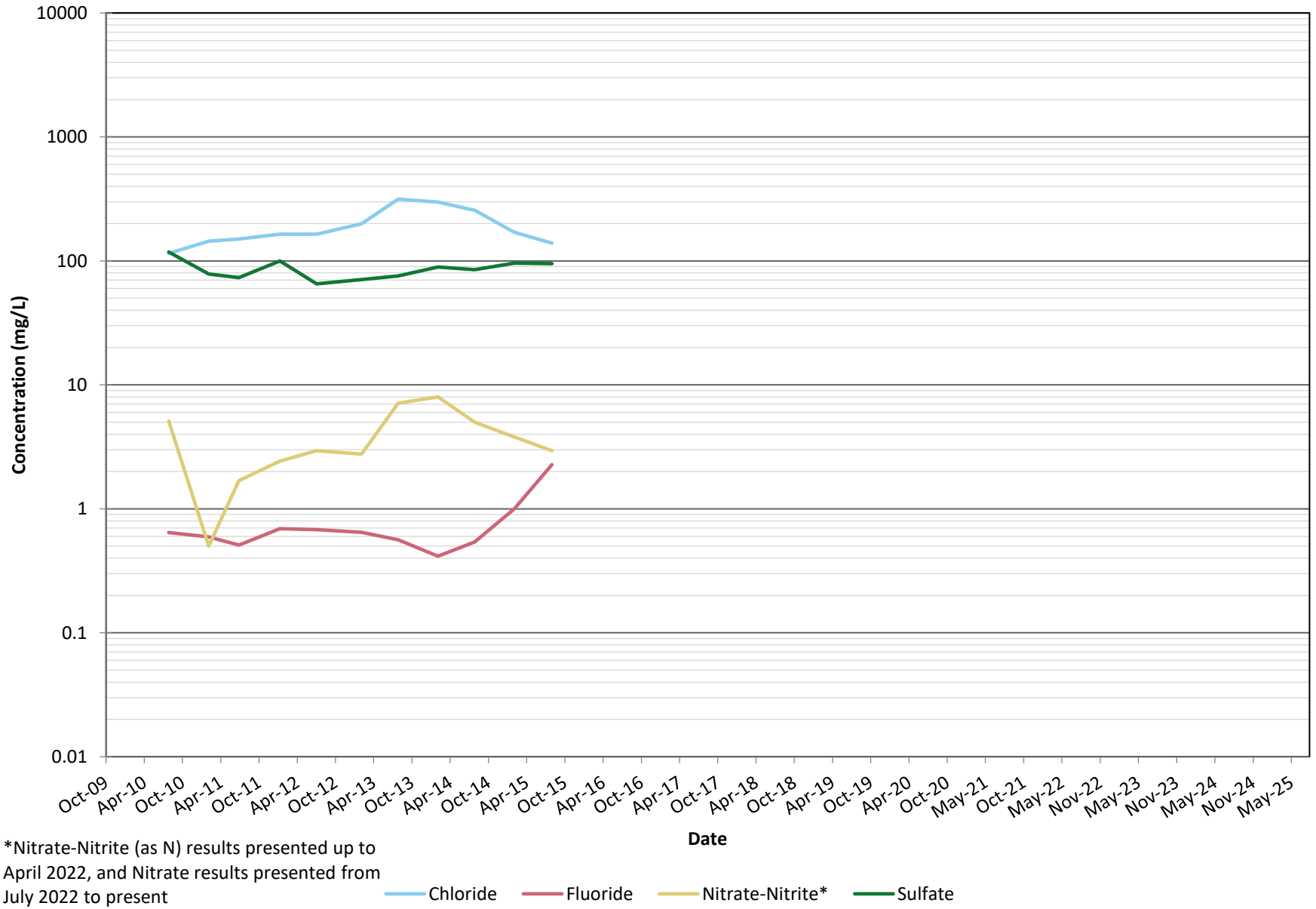
MW-27 SVOC CONCENTRATIONS OVER TIME



MW-27 Metals CONCENTRATIONS OVER TIME

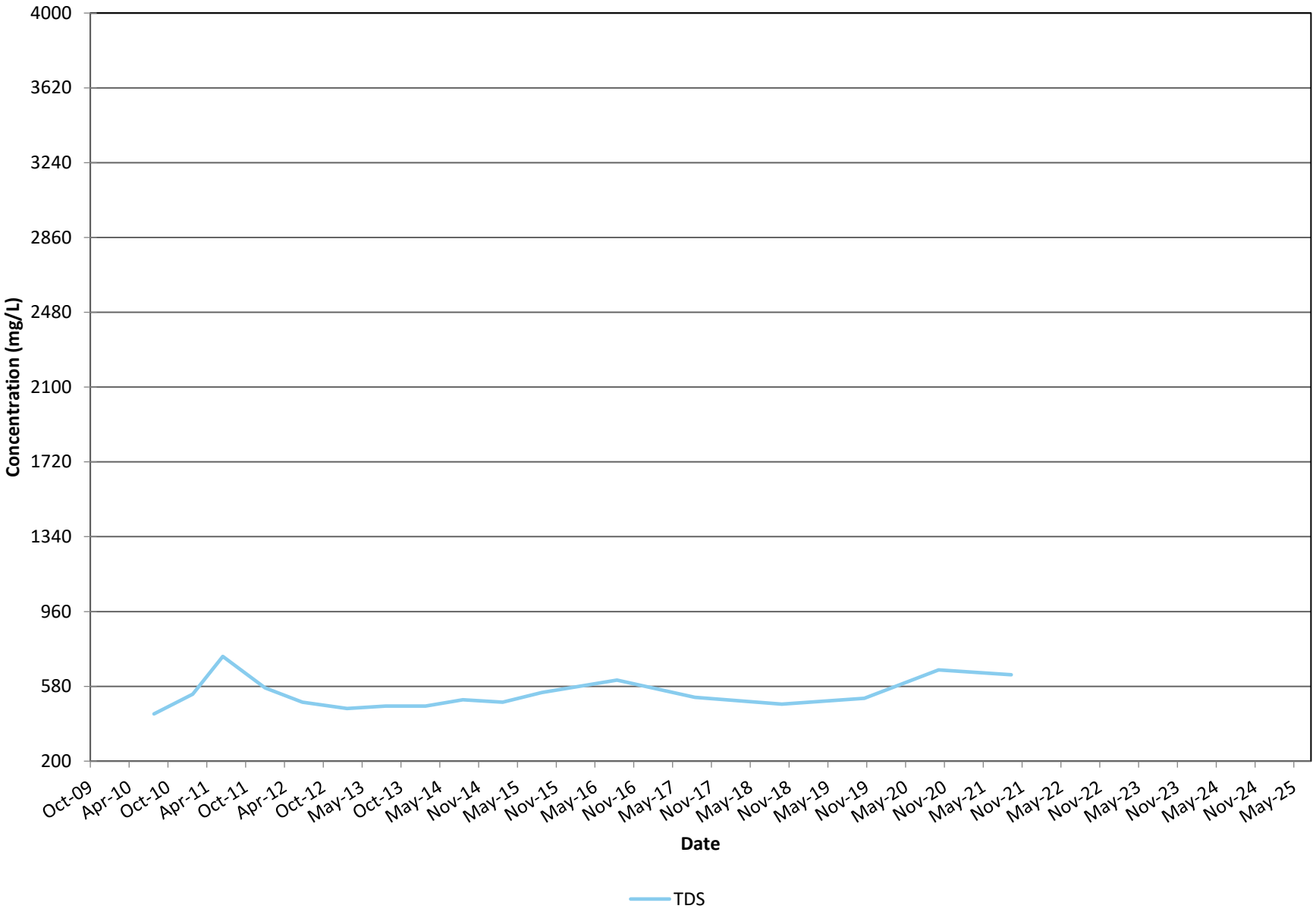


MW-27 Anions CONCENTRATIONS OVER TIME

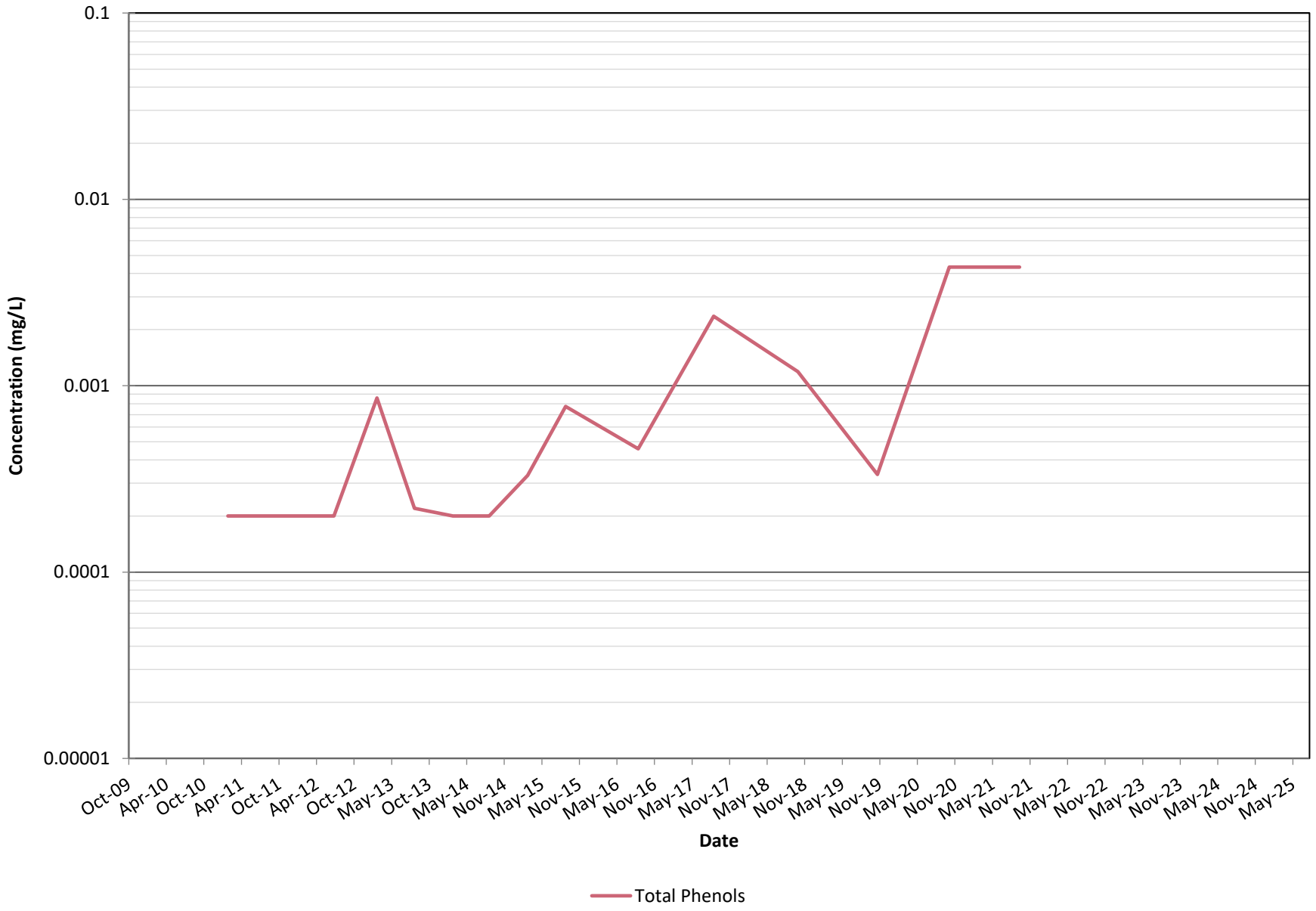


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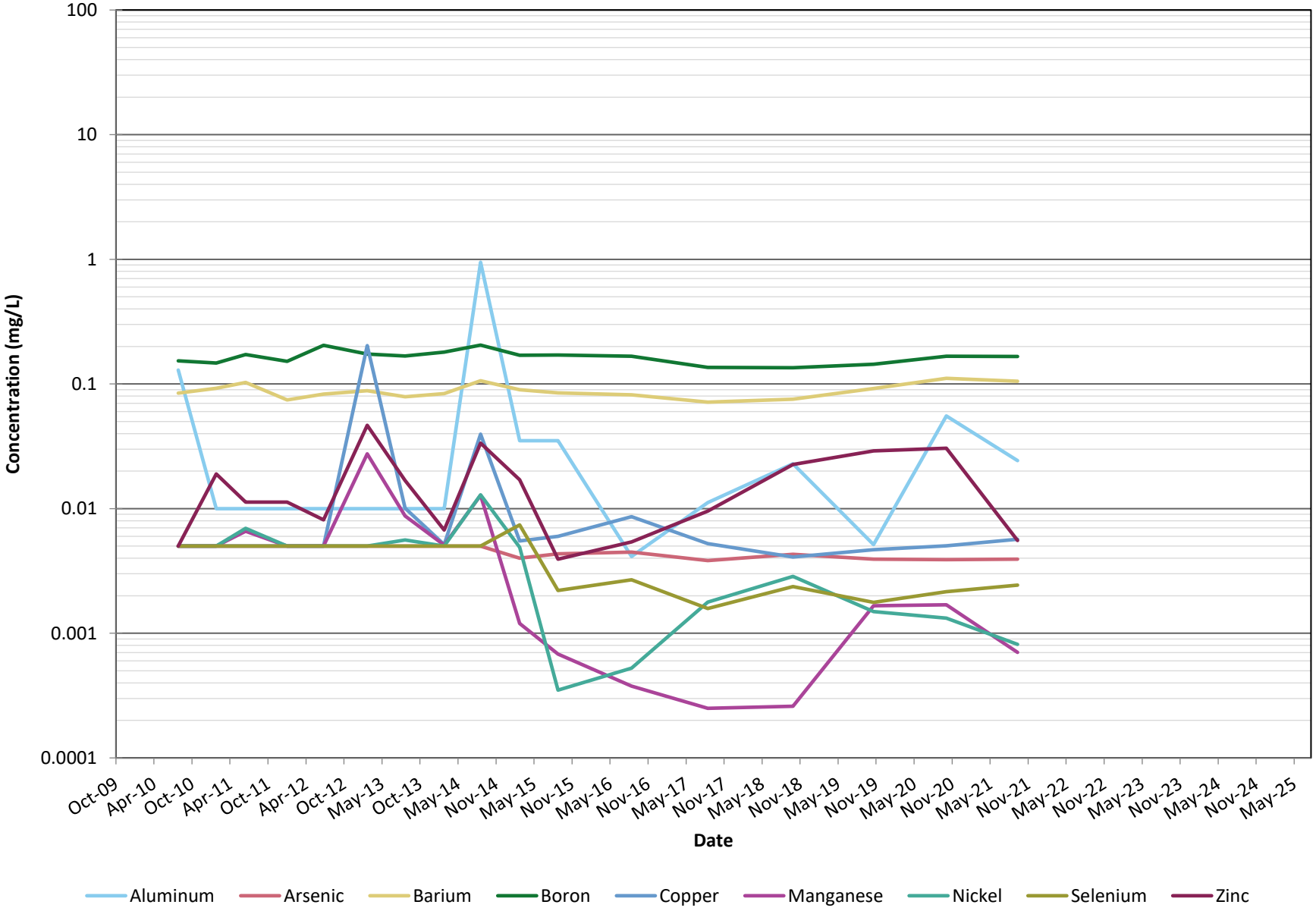
MW-28 TDS CONCENTRATIONS OVER TIME



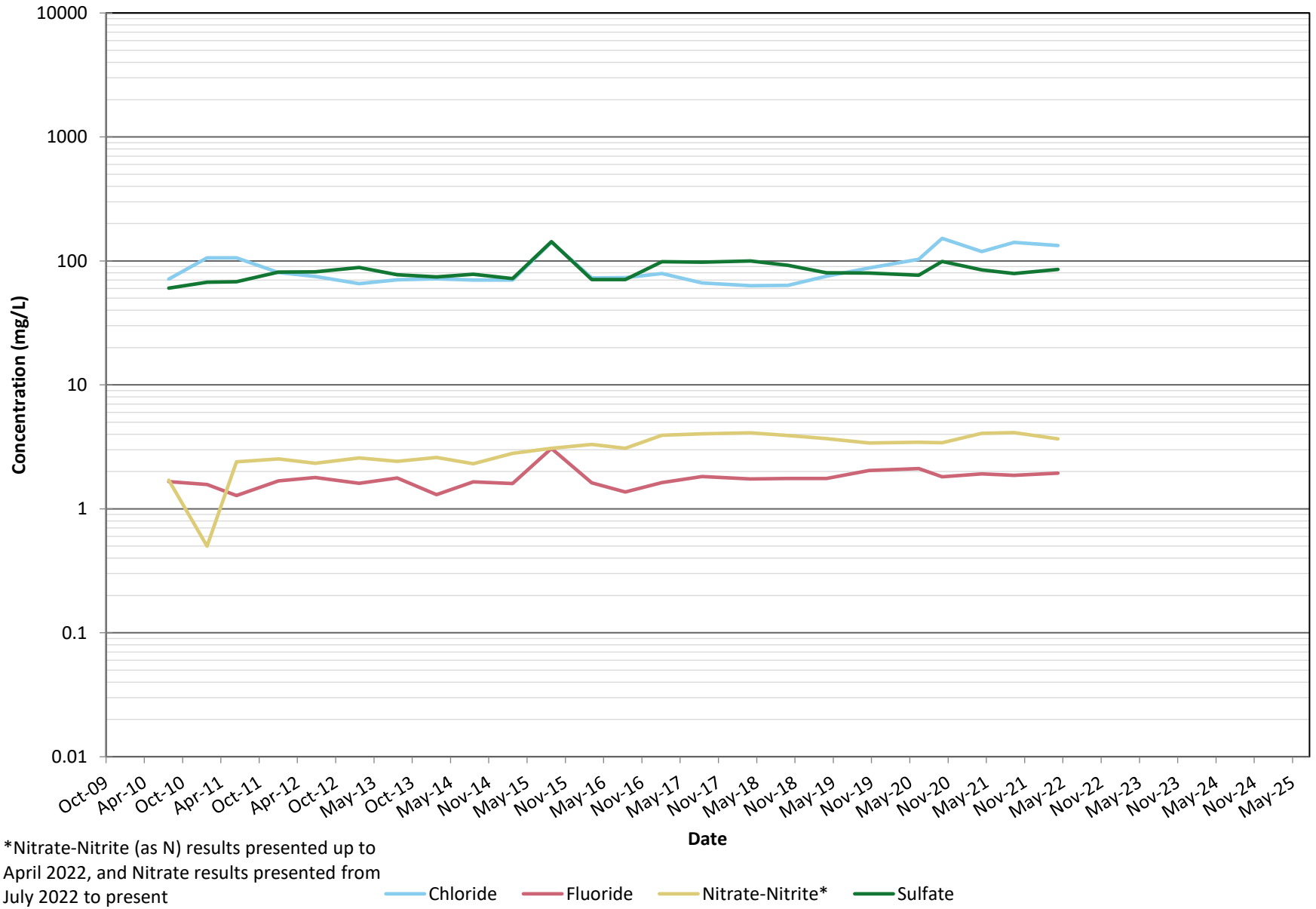
MW-28 SVOC CONCENTRATIONS OVER TIME



MW-28 Metals CONCENTRATIONS OVER TIME

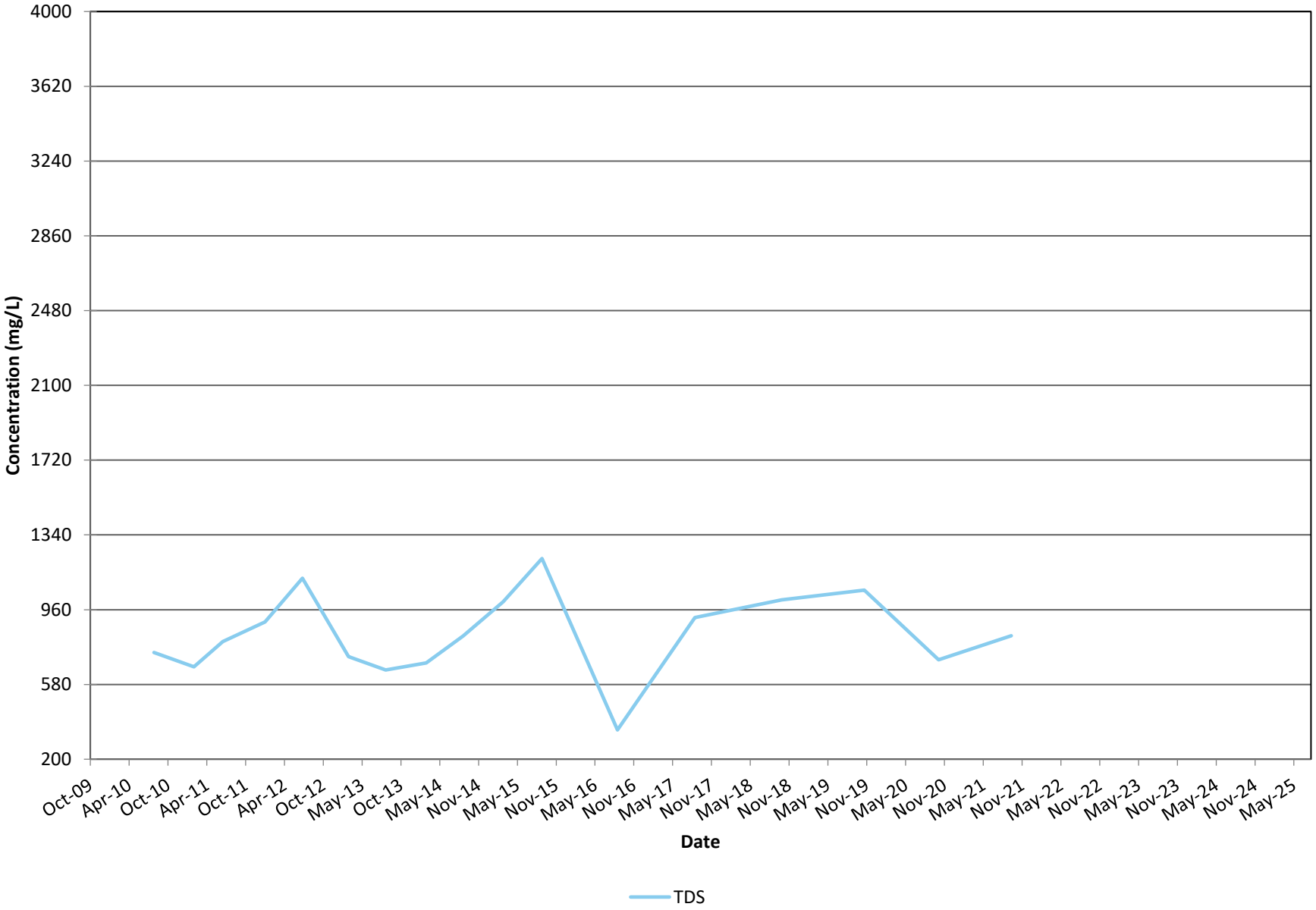


MW-28 Anions CONCENTRATIONS OVER TIME

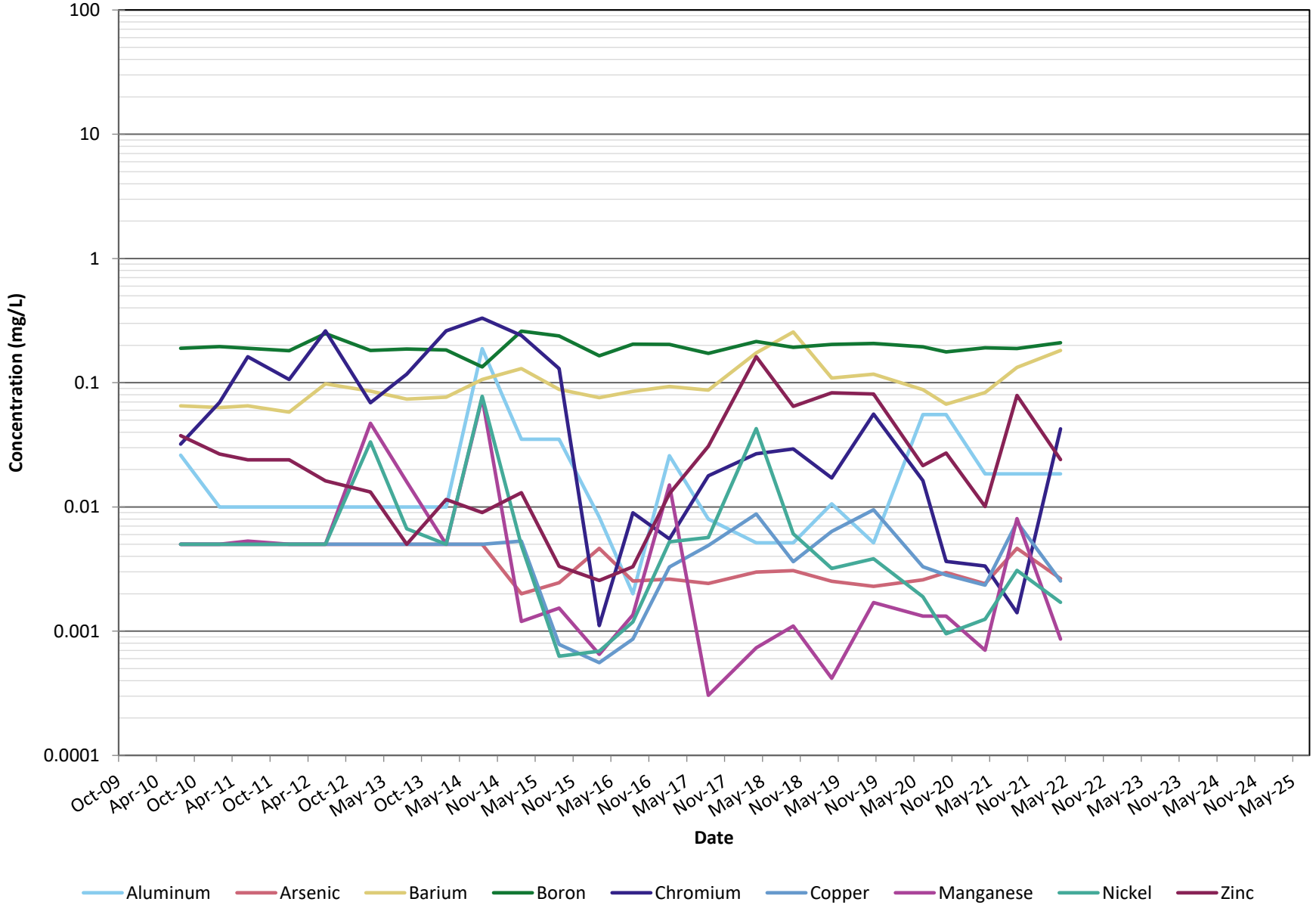


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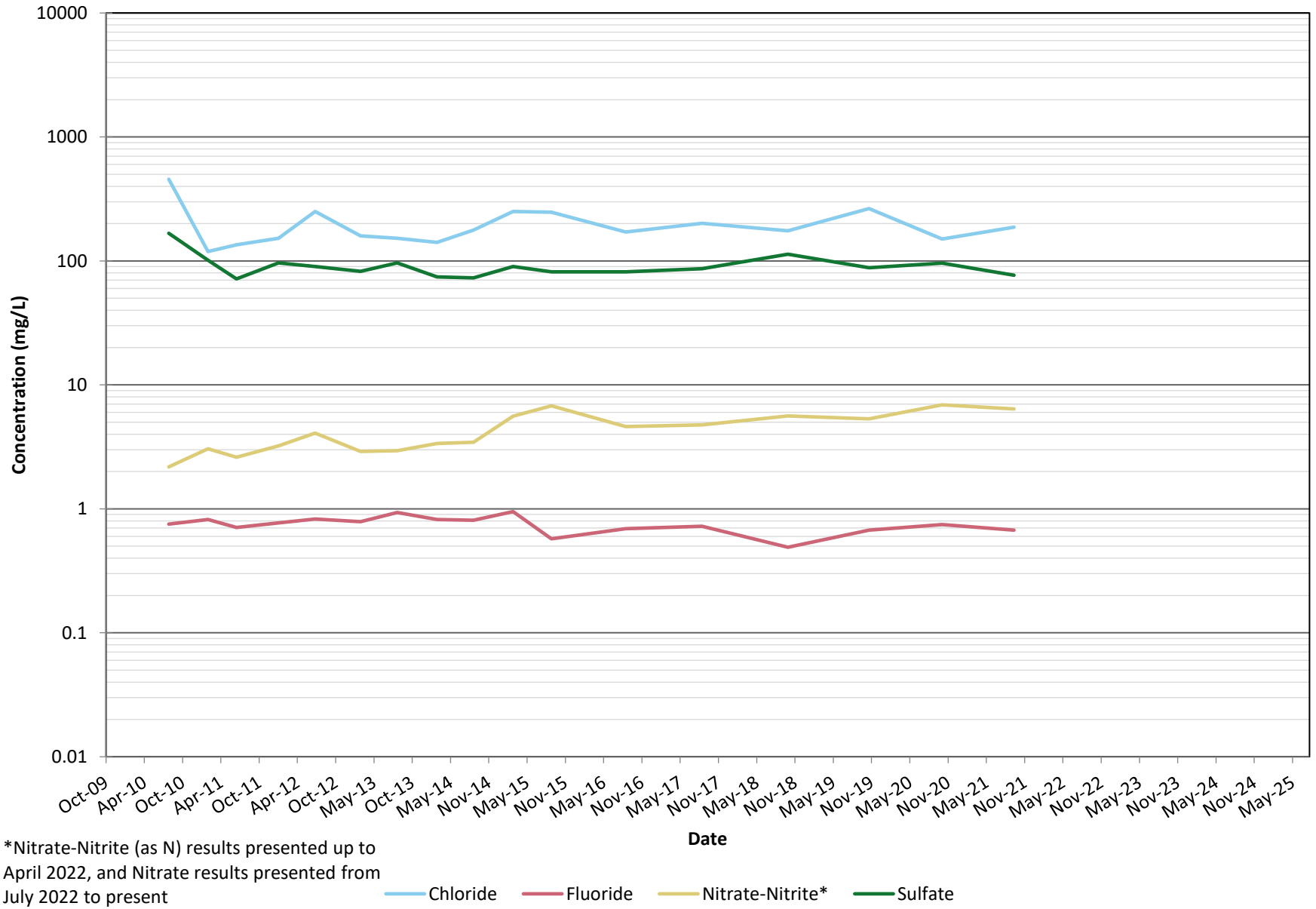
MW-29 TDS CONCENTRATIONS OVER TIME



MW-29 Metals CONCENTRATIONS OVER TIME

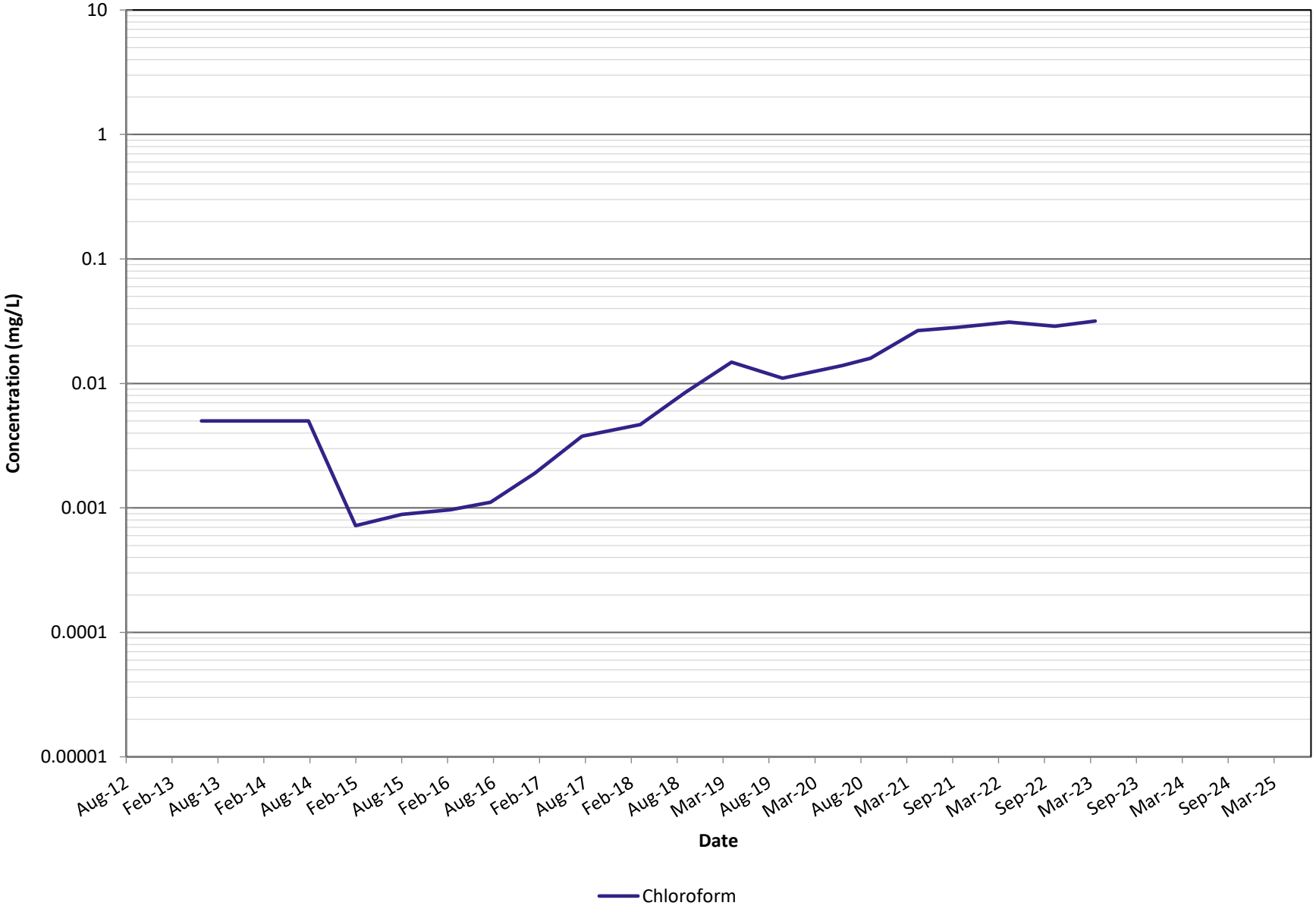


MW-29 Anions CONCENTRATIONS OVER TIME

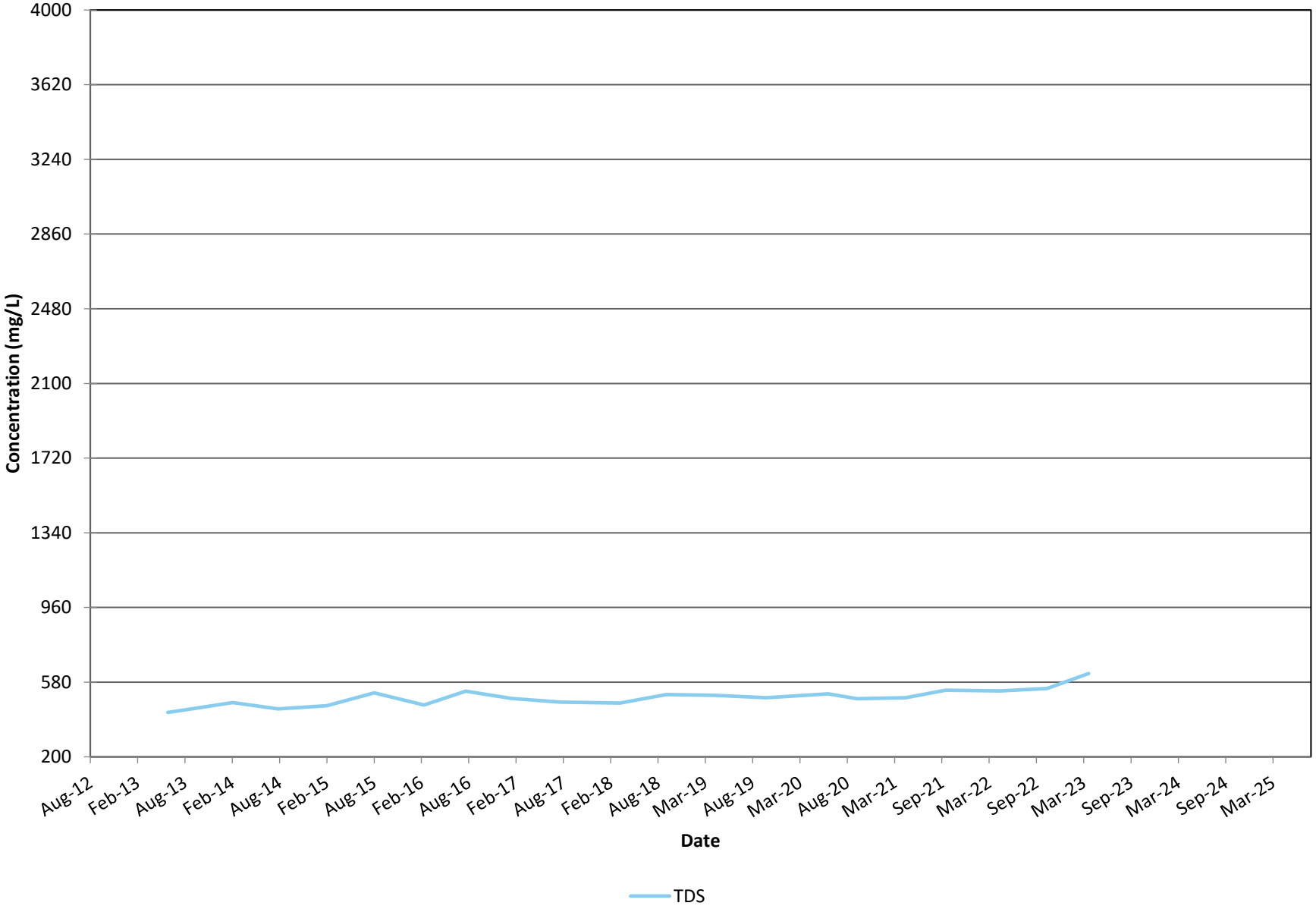


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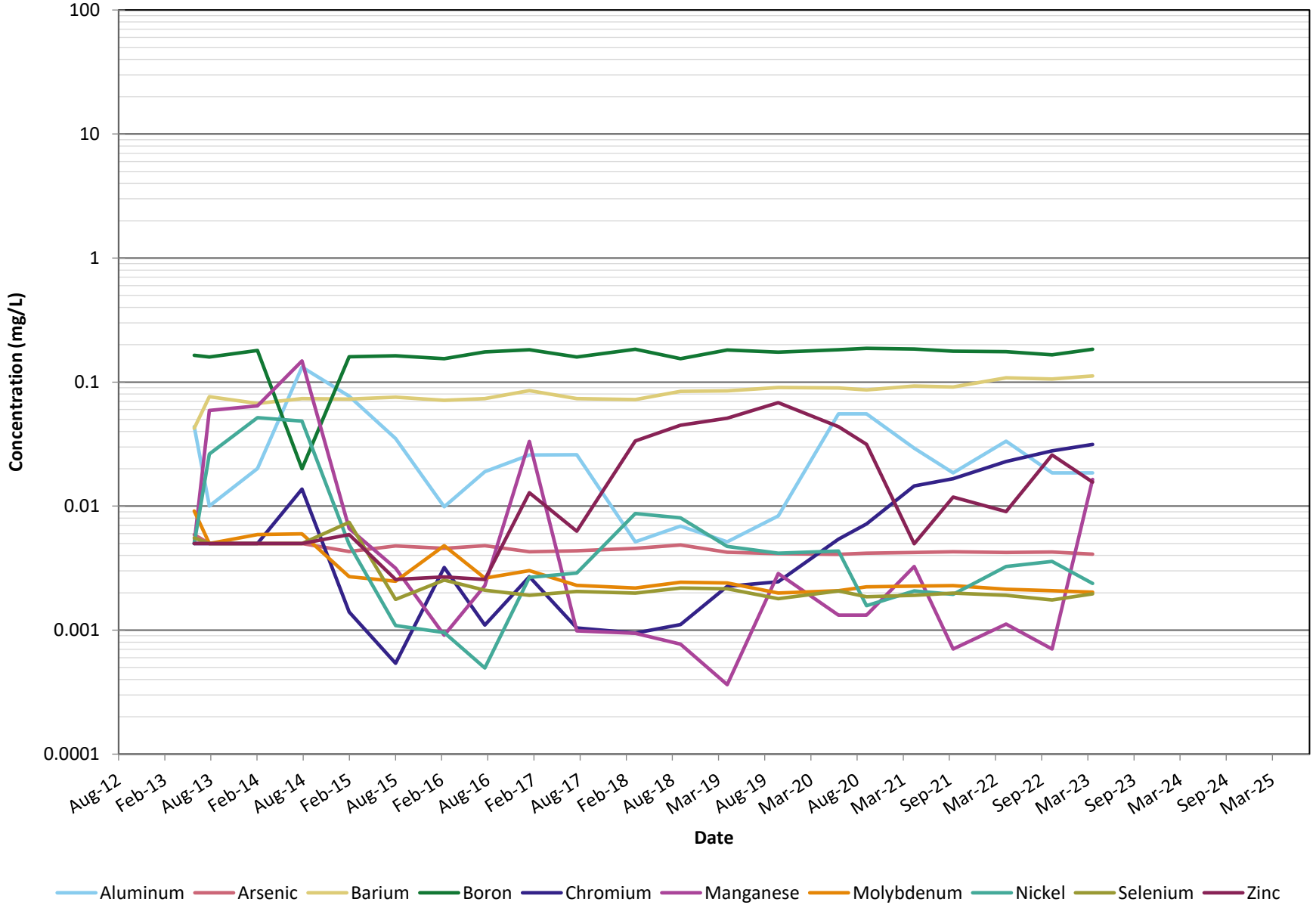
MW-30 VOC CONCENTRATIONS OVER TIME



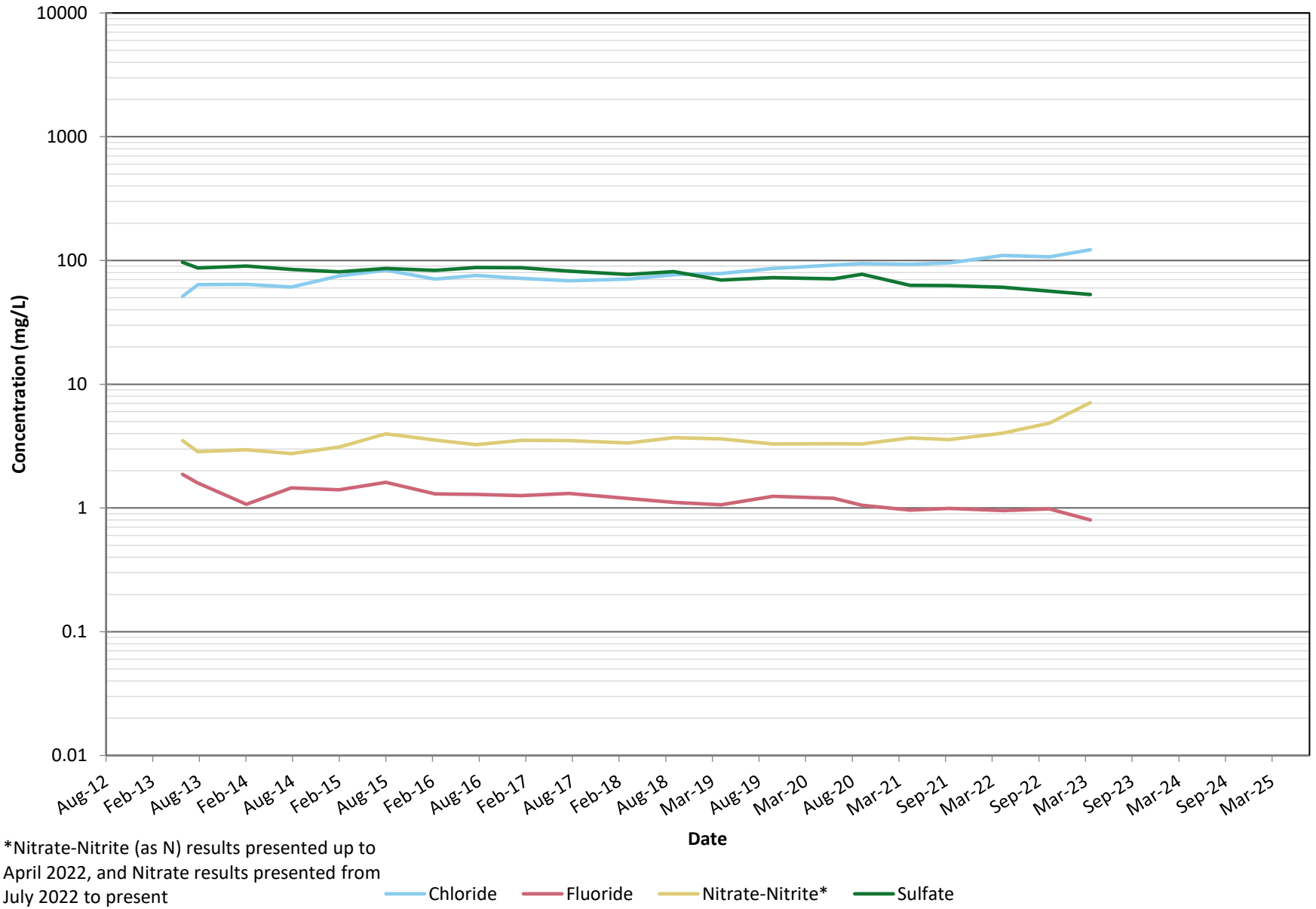
MW-30 TDS CONCENTRATIONS OVER TIME



MW-30 Metals CONCENTRATIONS OVER TIME

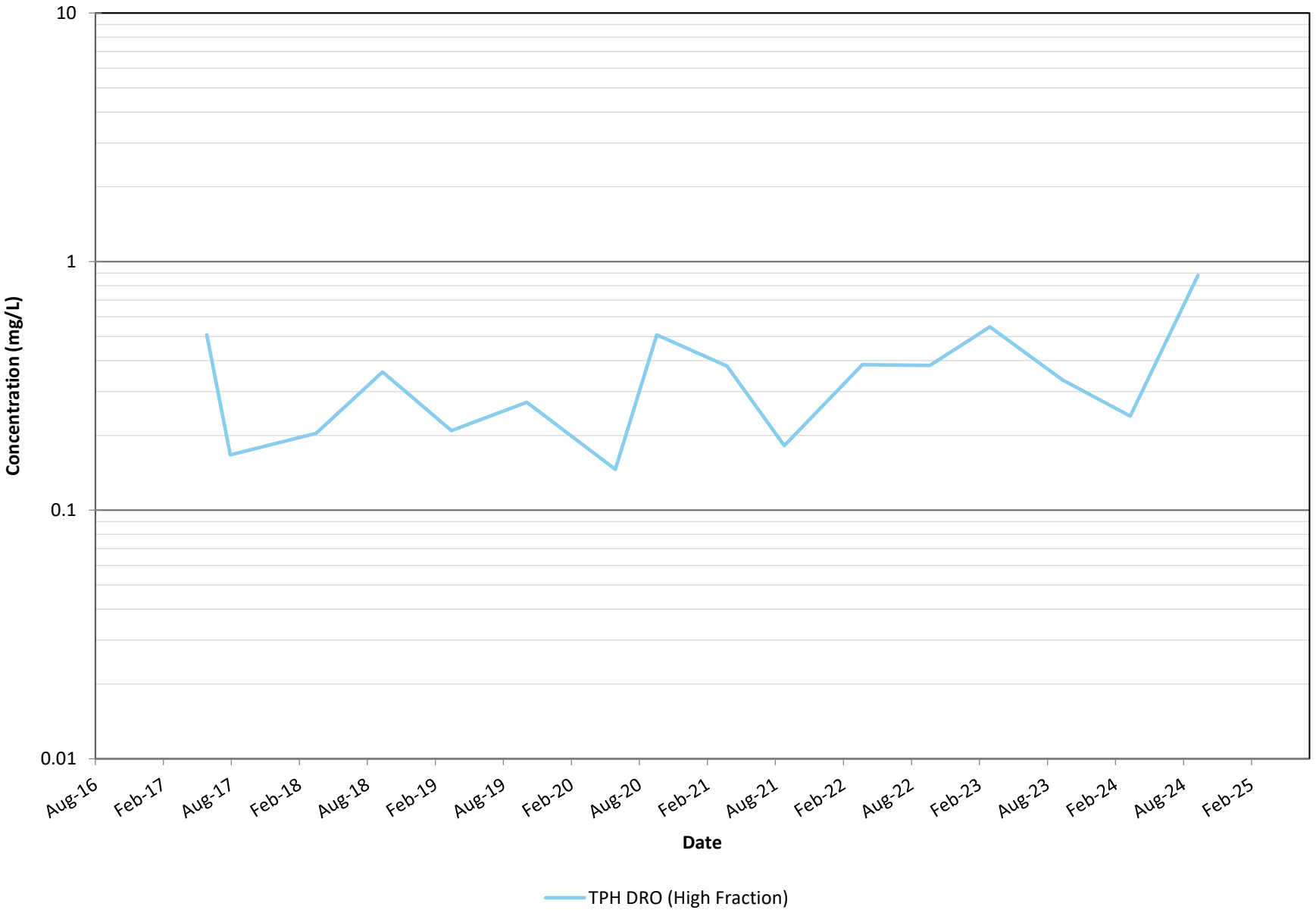


MW-30 Anions CONCENTRATIONS OVER TIME

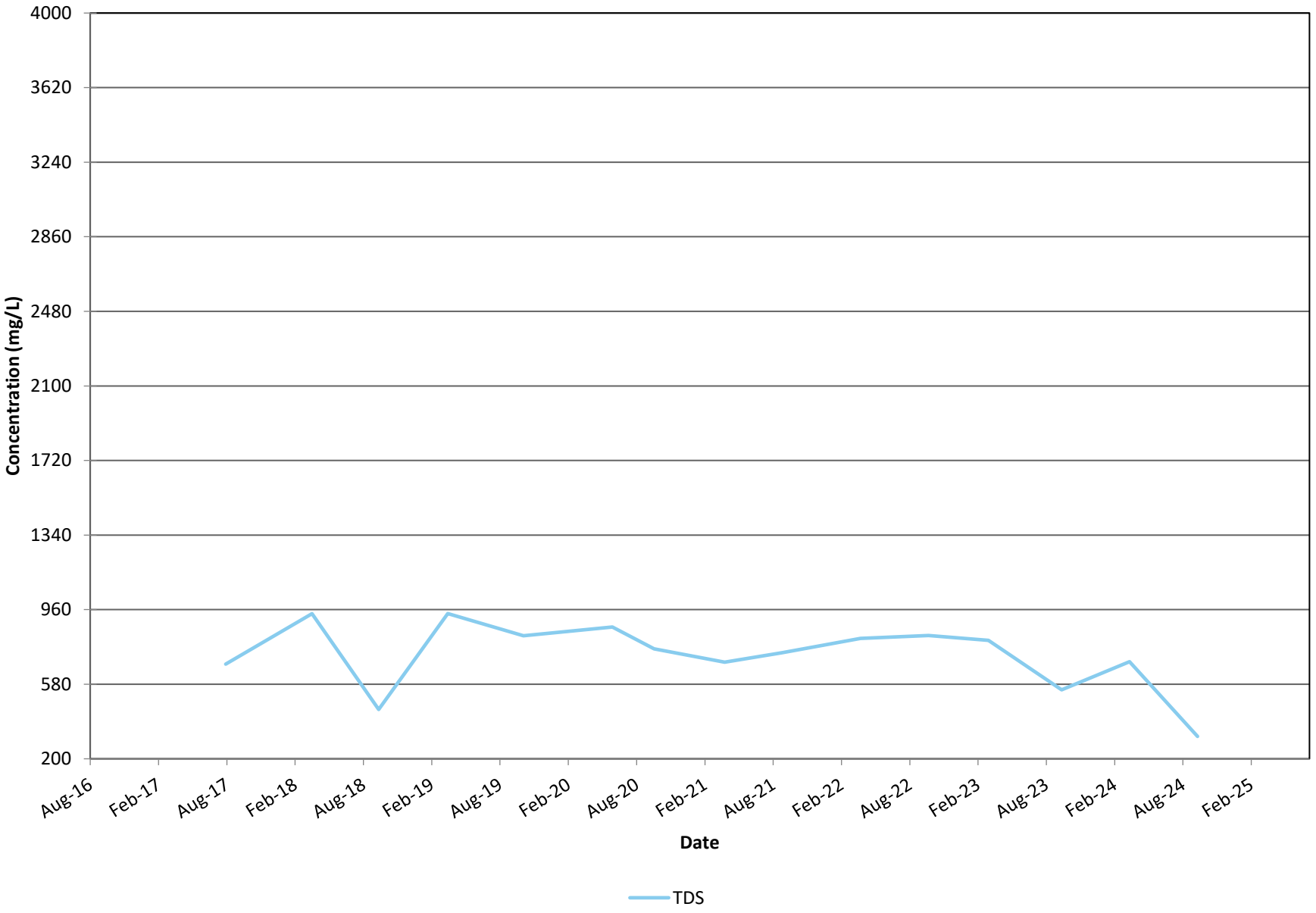


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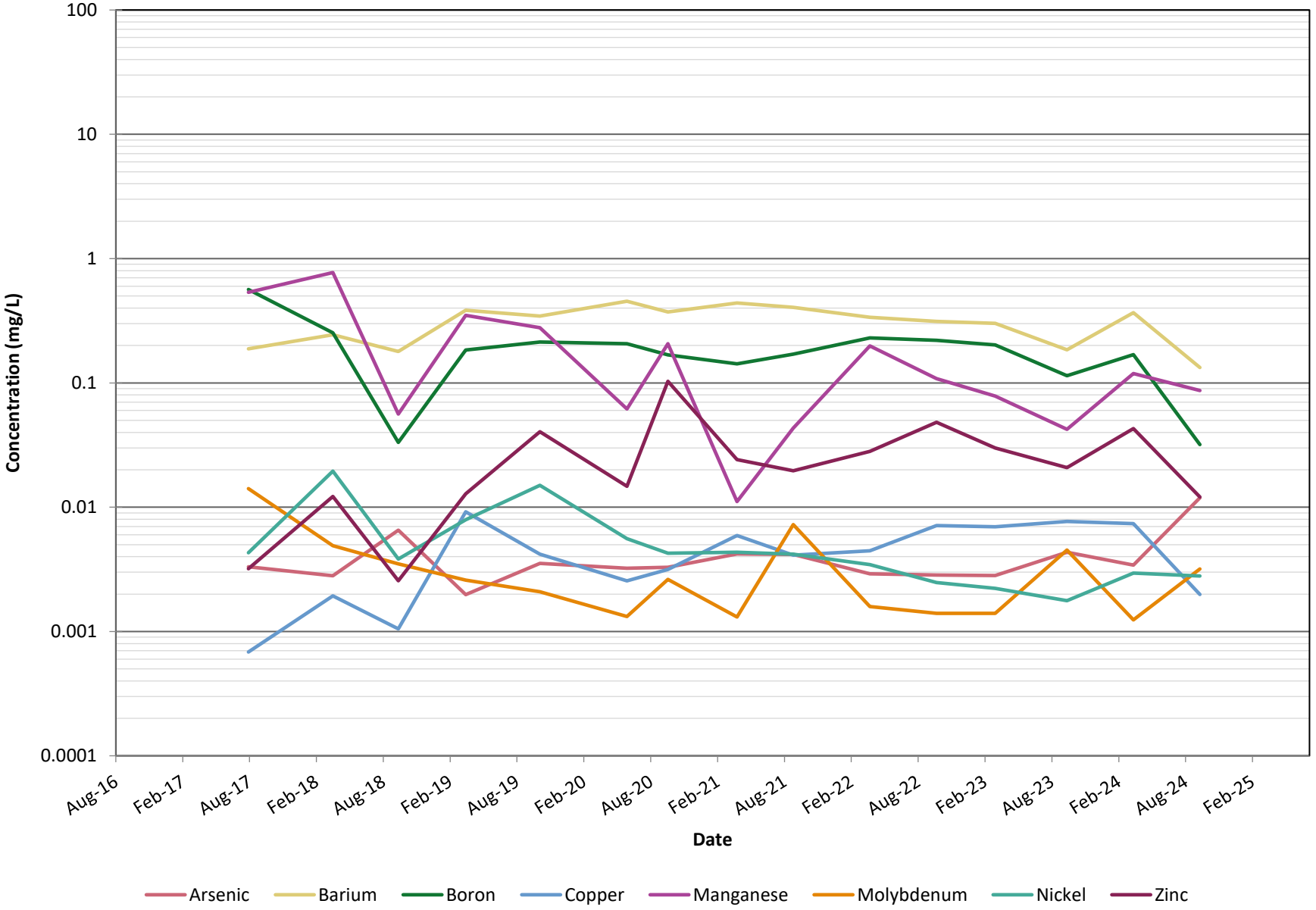
MW-32 TPH CONCENTRATIONS OVER TIME



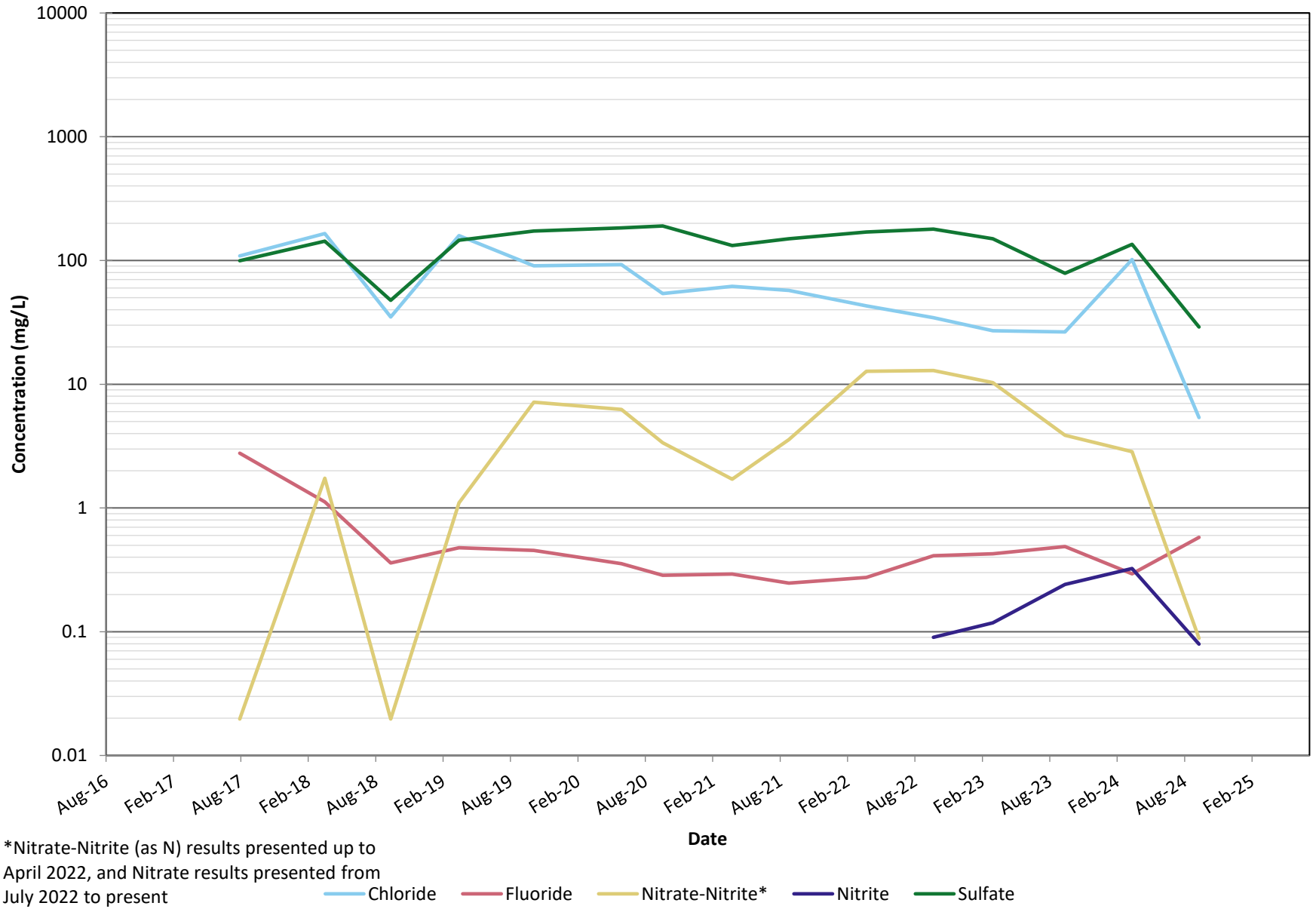
MW-32 TDS CONCENTRATIONS OVER TIME



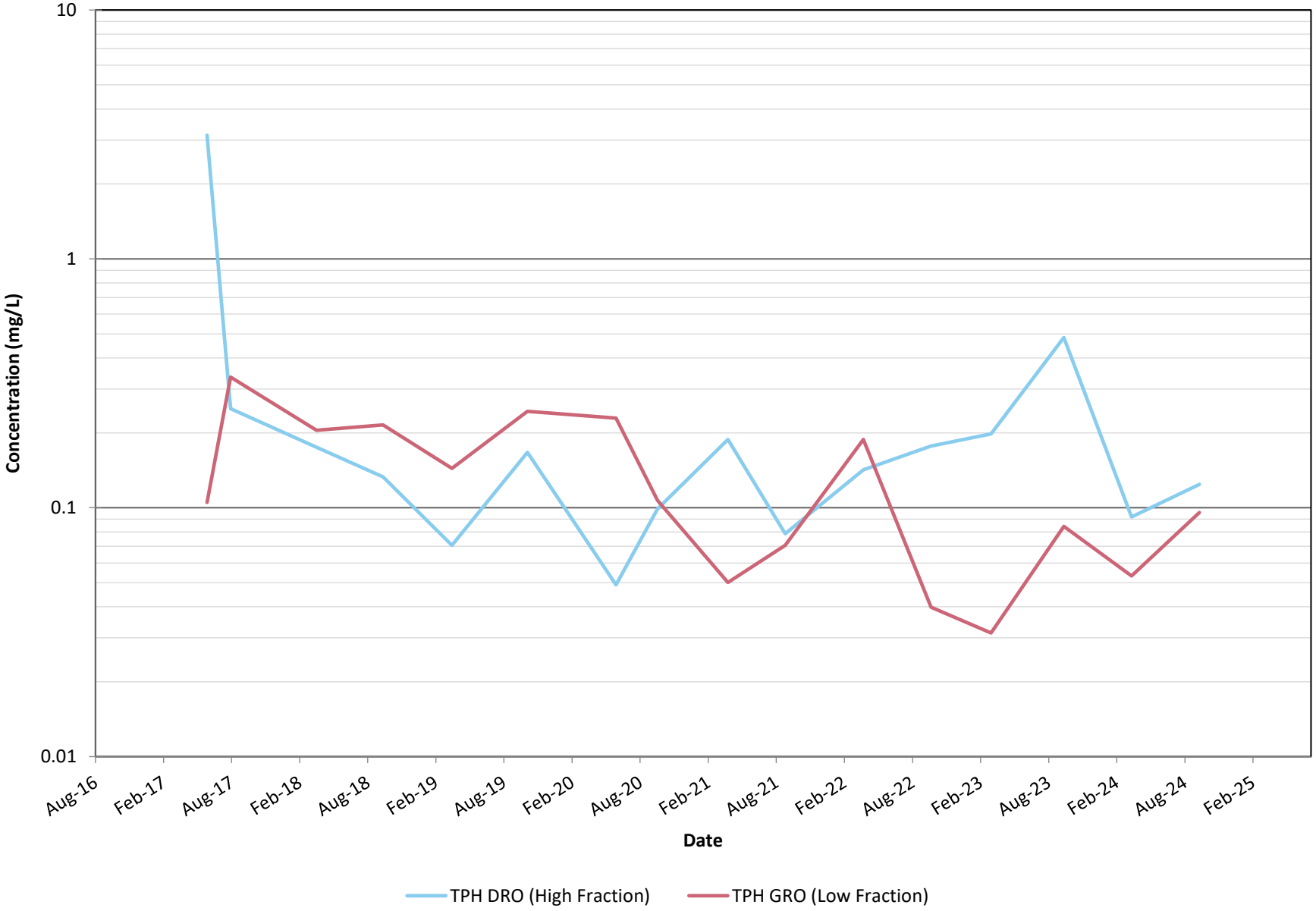
MW-32 Metals CONCENTRATIONS OVER TIME



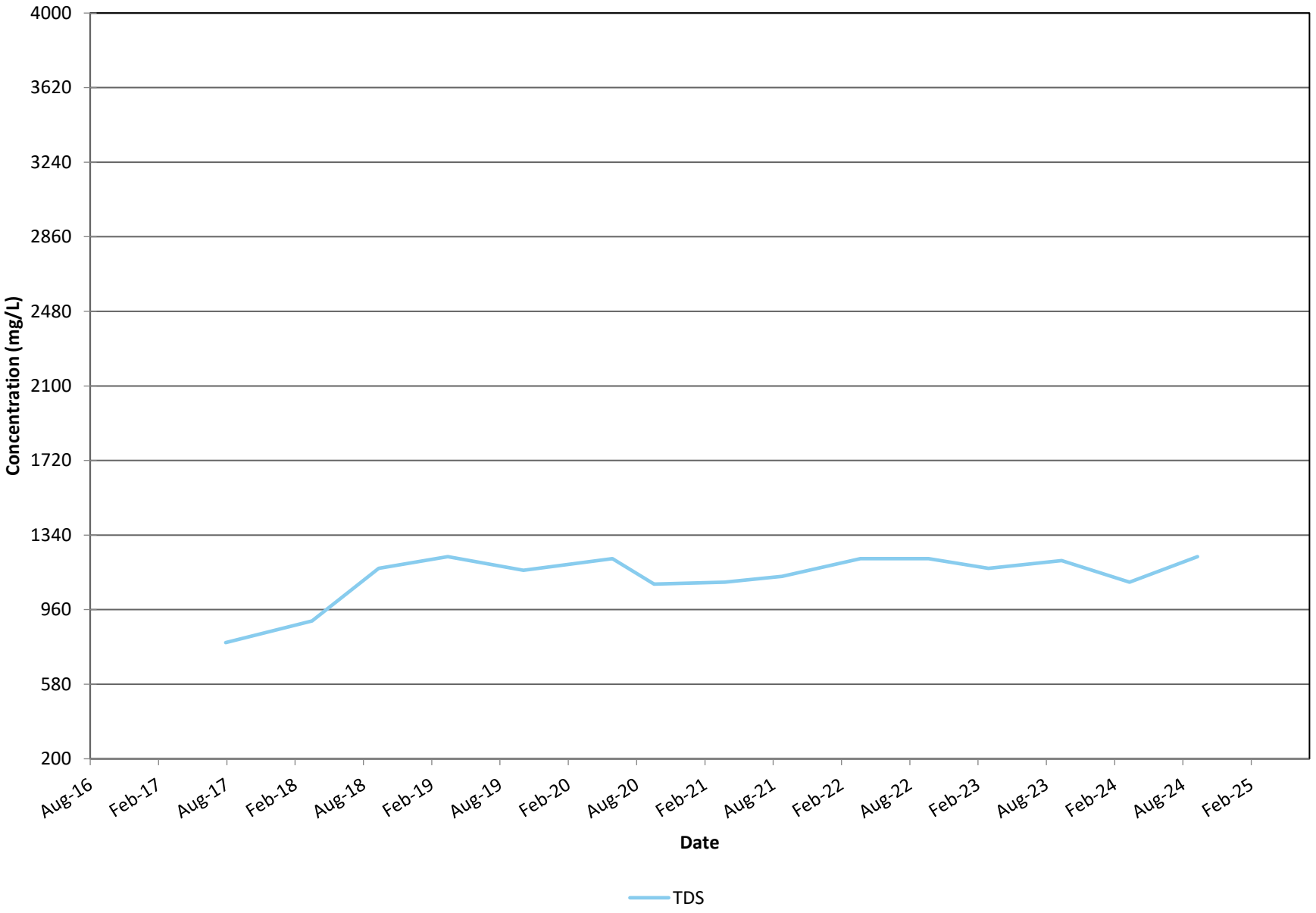
MW-32 Anions CONCENTRATIONS OVER TIME



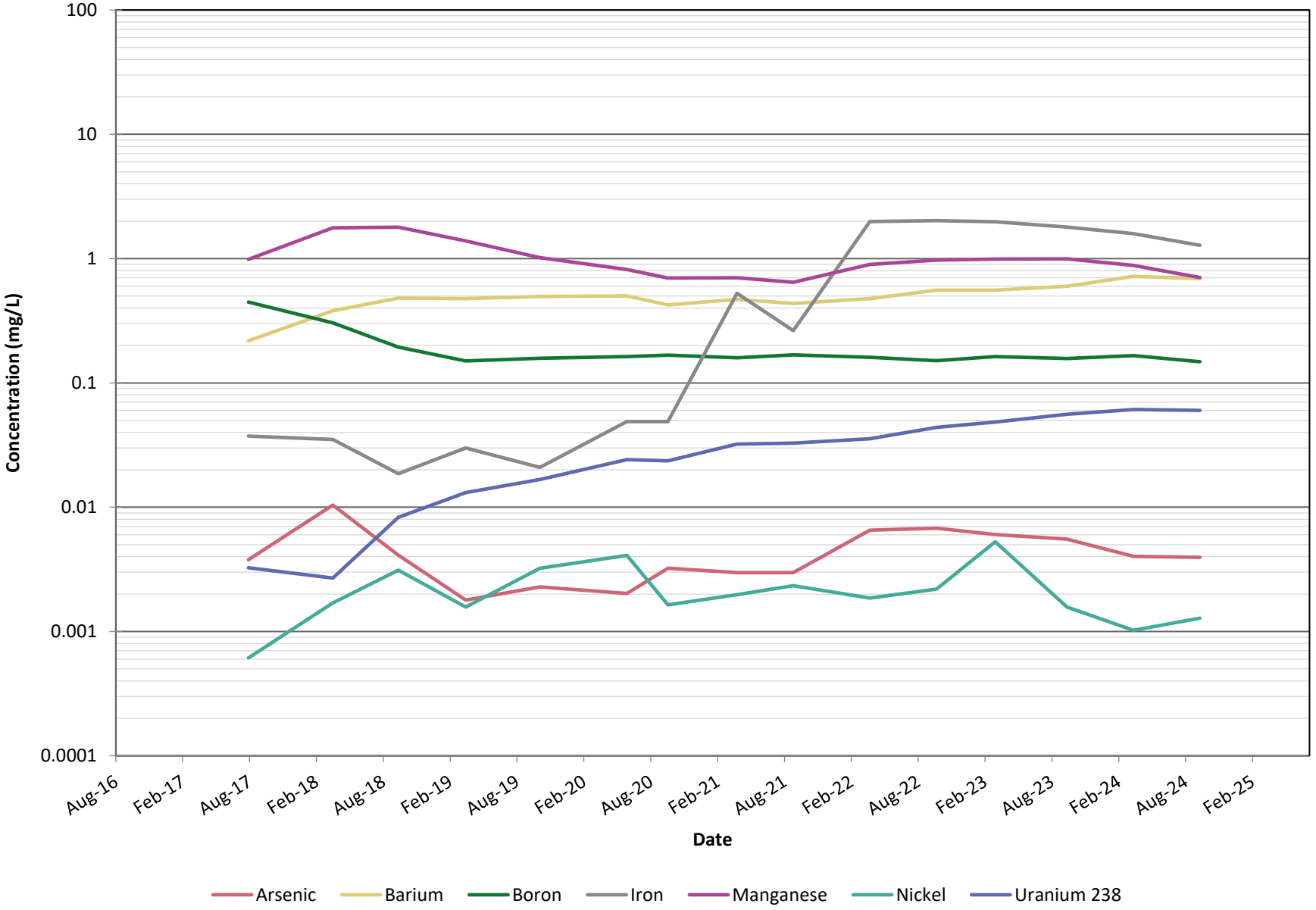
MW-33 TPH CONCENTRATIONS OVER TIME



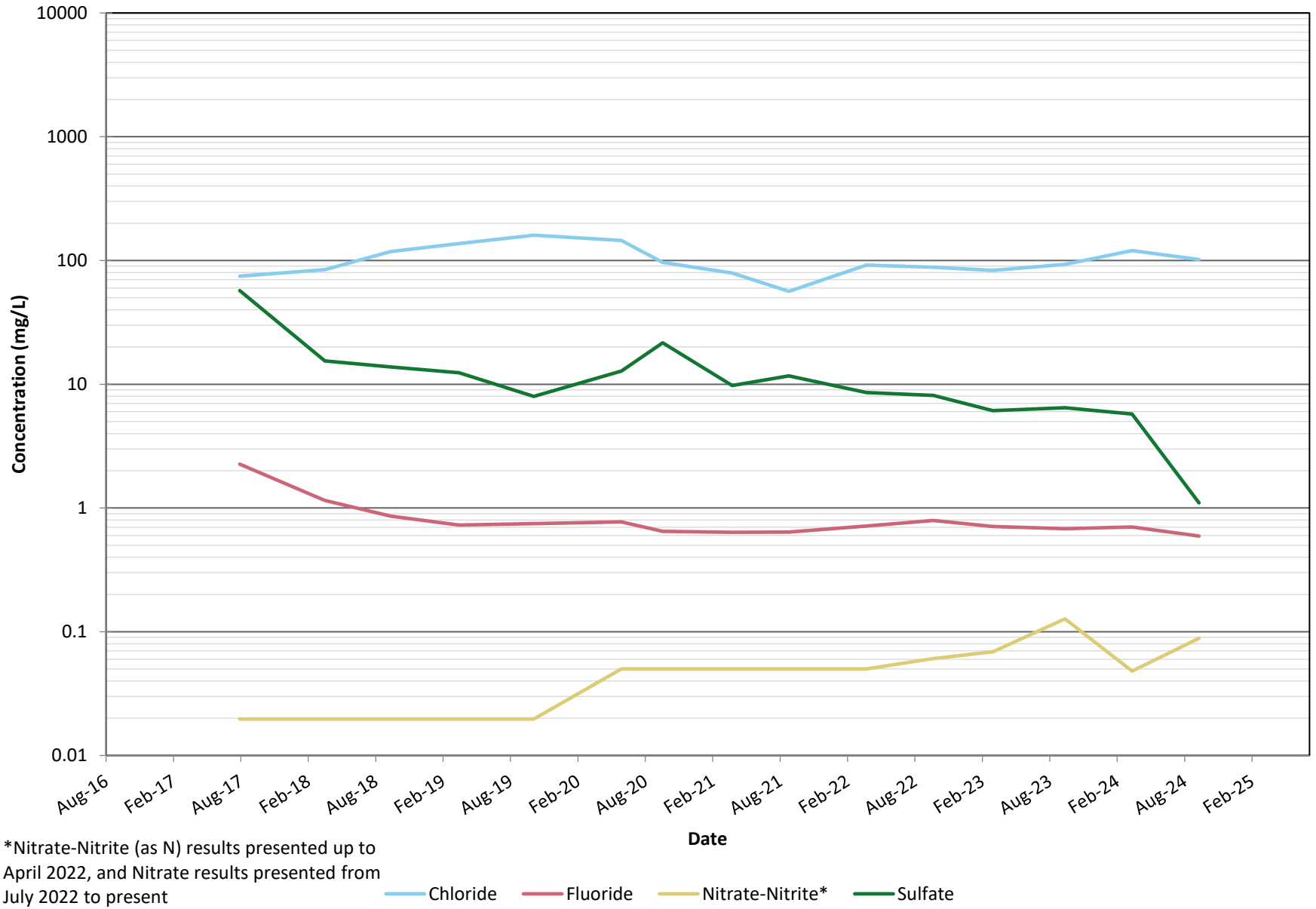
MW-33 TDS CONCENTRATIONS OVER TIME



MW-33 Metals CONCENTRATIONS OVER TIME

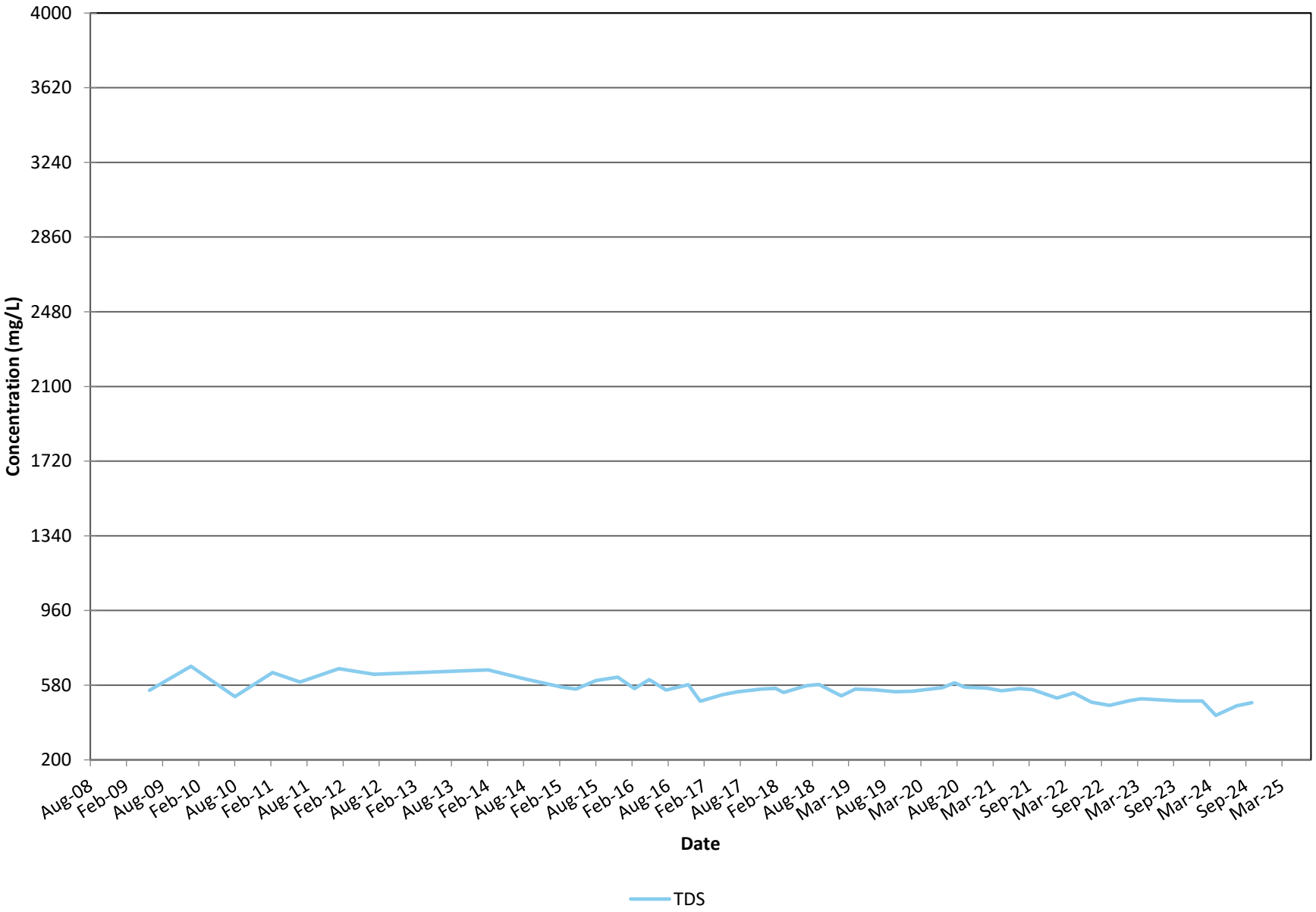


MW-33 Anions CONCENTRATIONS OVER TIME

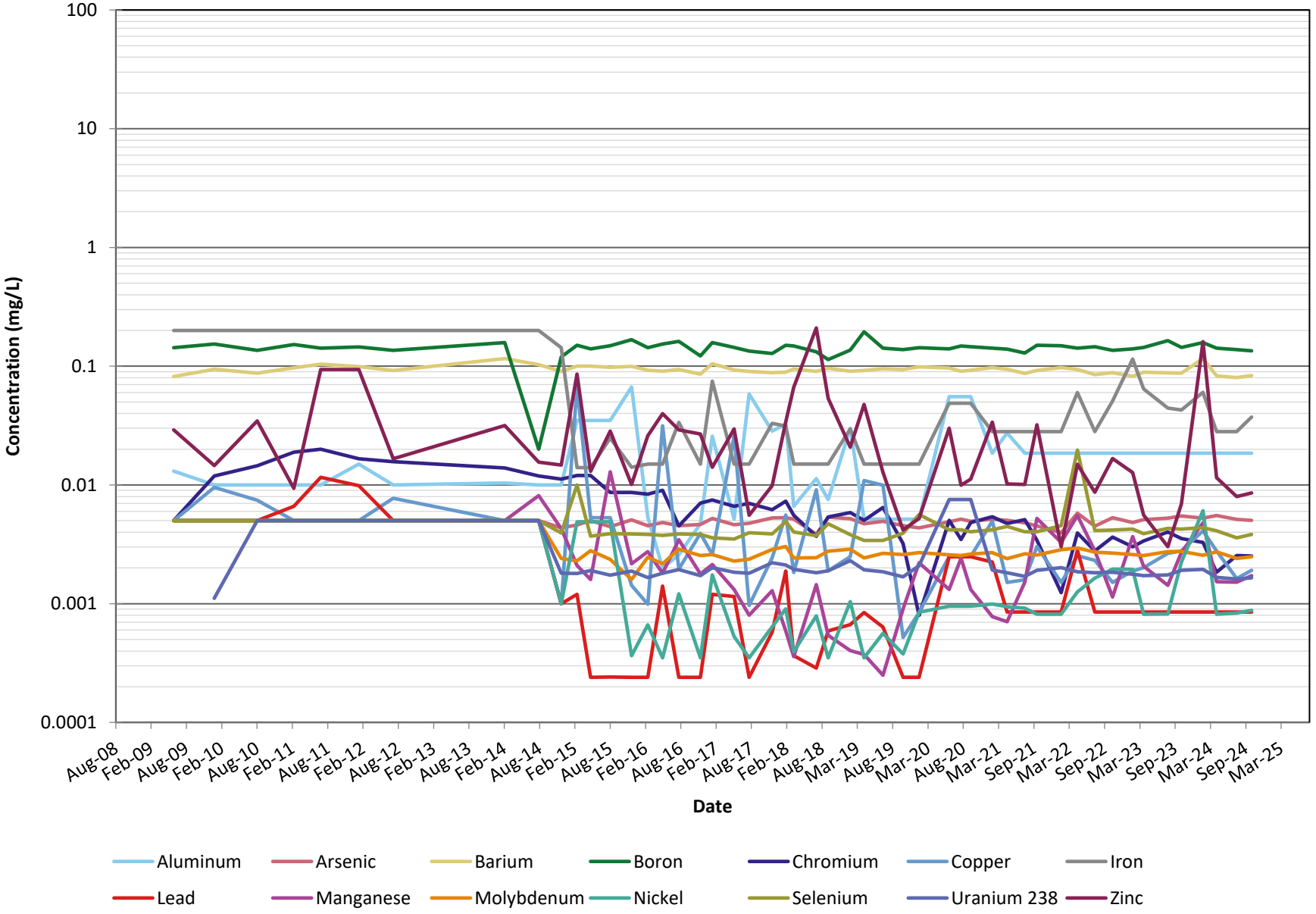


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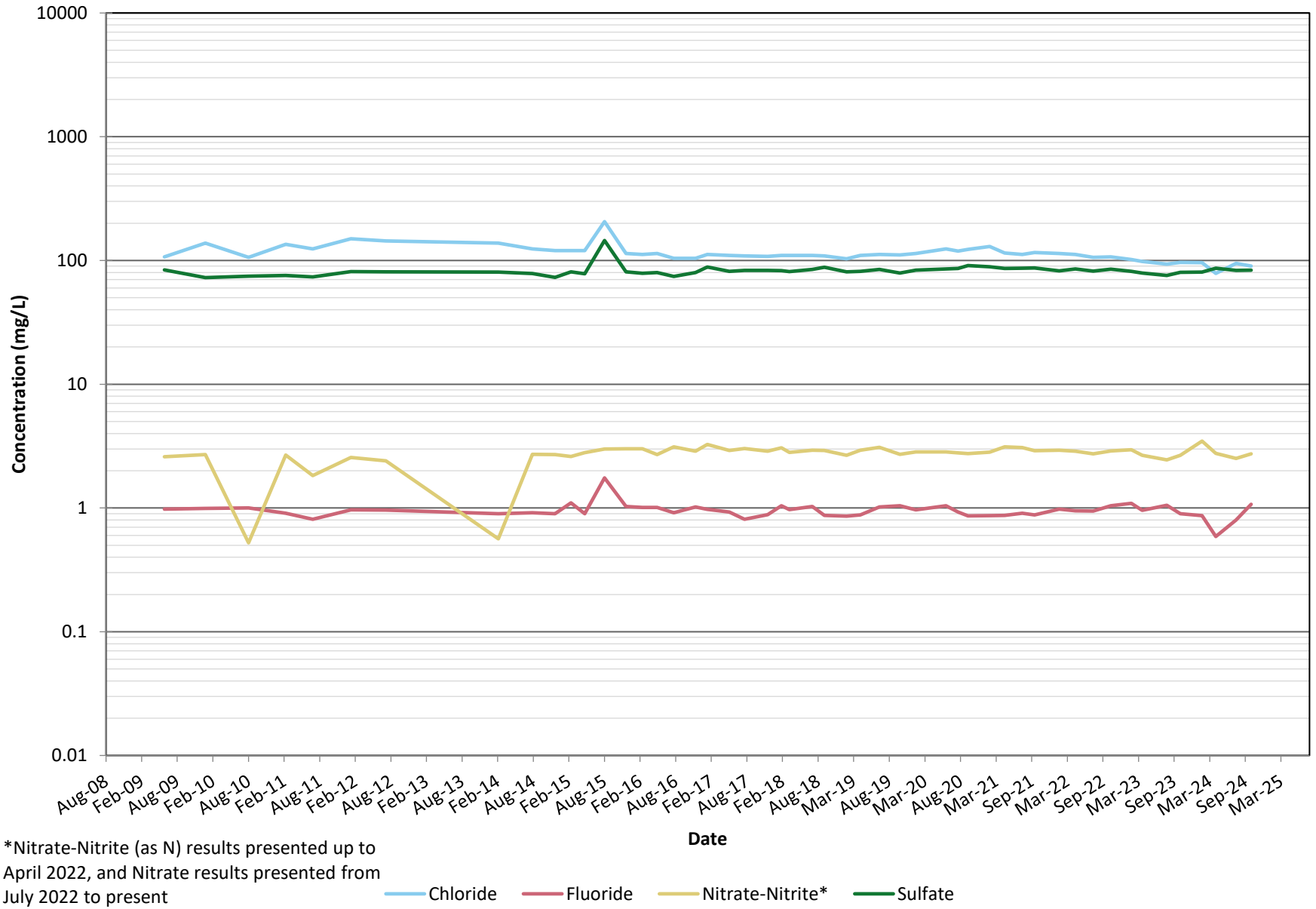
WW-East TDS CONCENTRATIONS OVER TIME



WW-East Metals CONCENTRATIONS OVER TIME

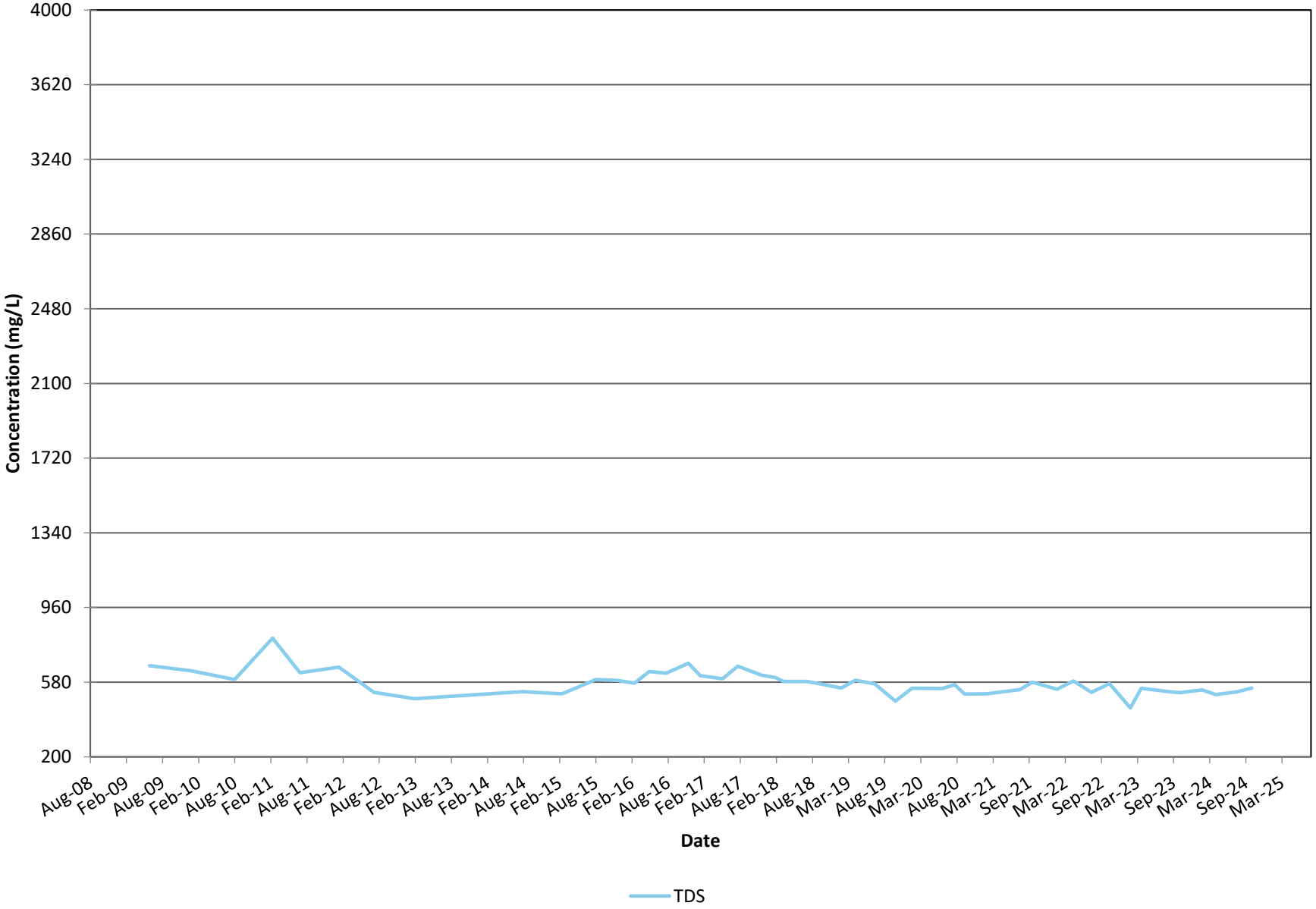


WW-East Anions CONCENTRATIONS OVER TIME

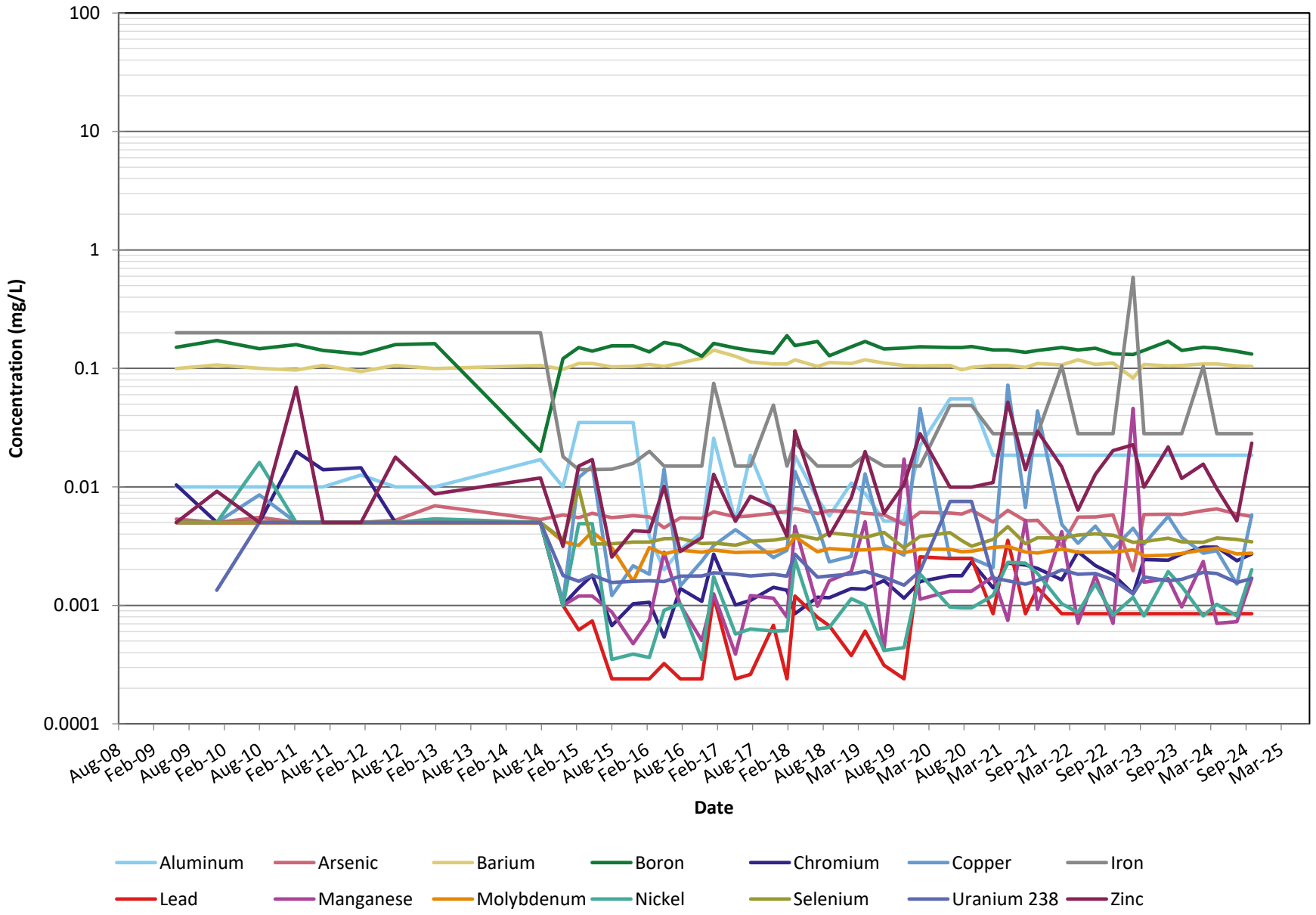


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

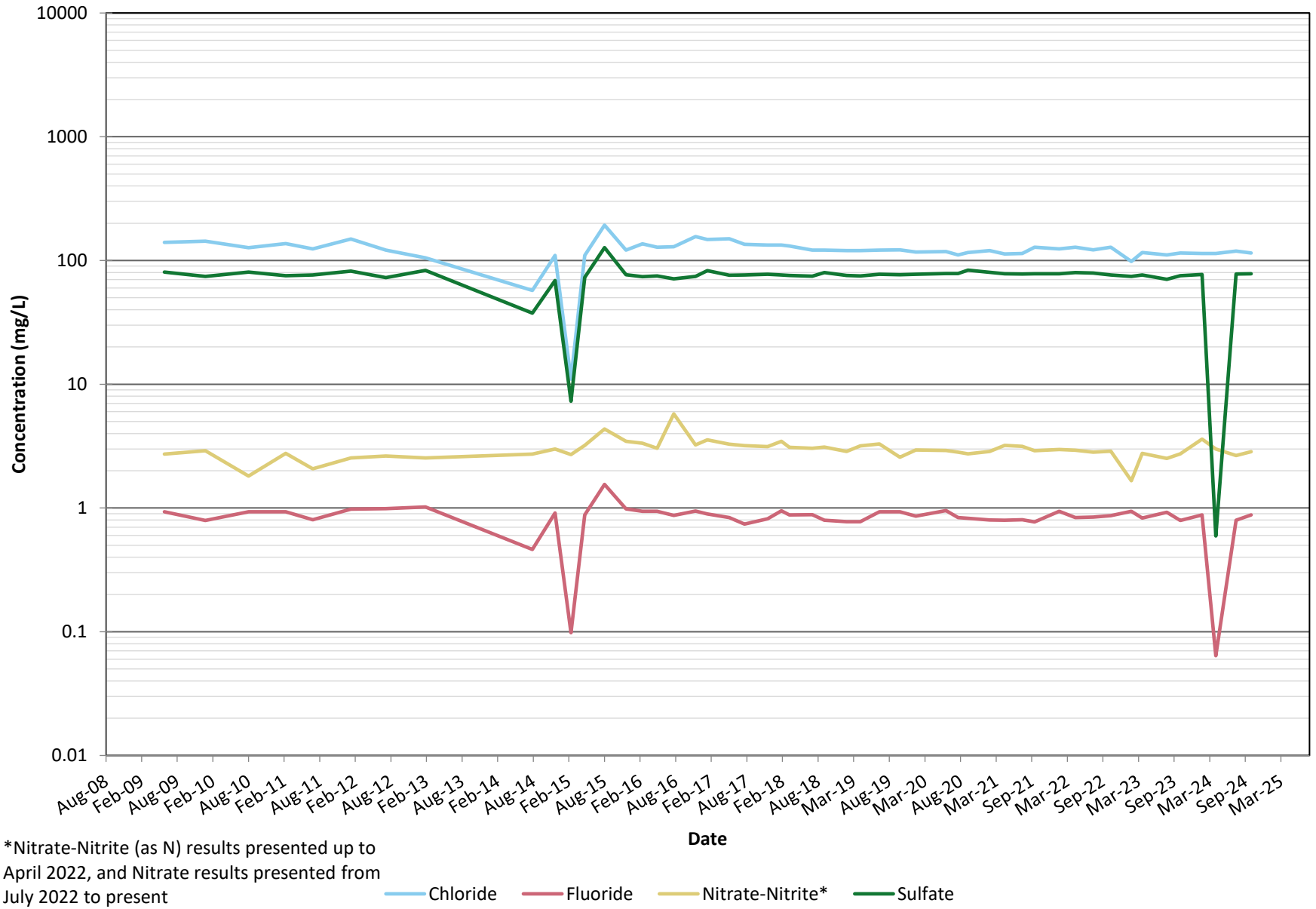
WW-North TDS CONCENTRATIONS OVER TIME



WW-North Metals CONCENTRATIONS OVER TIME

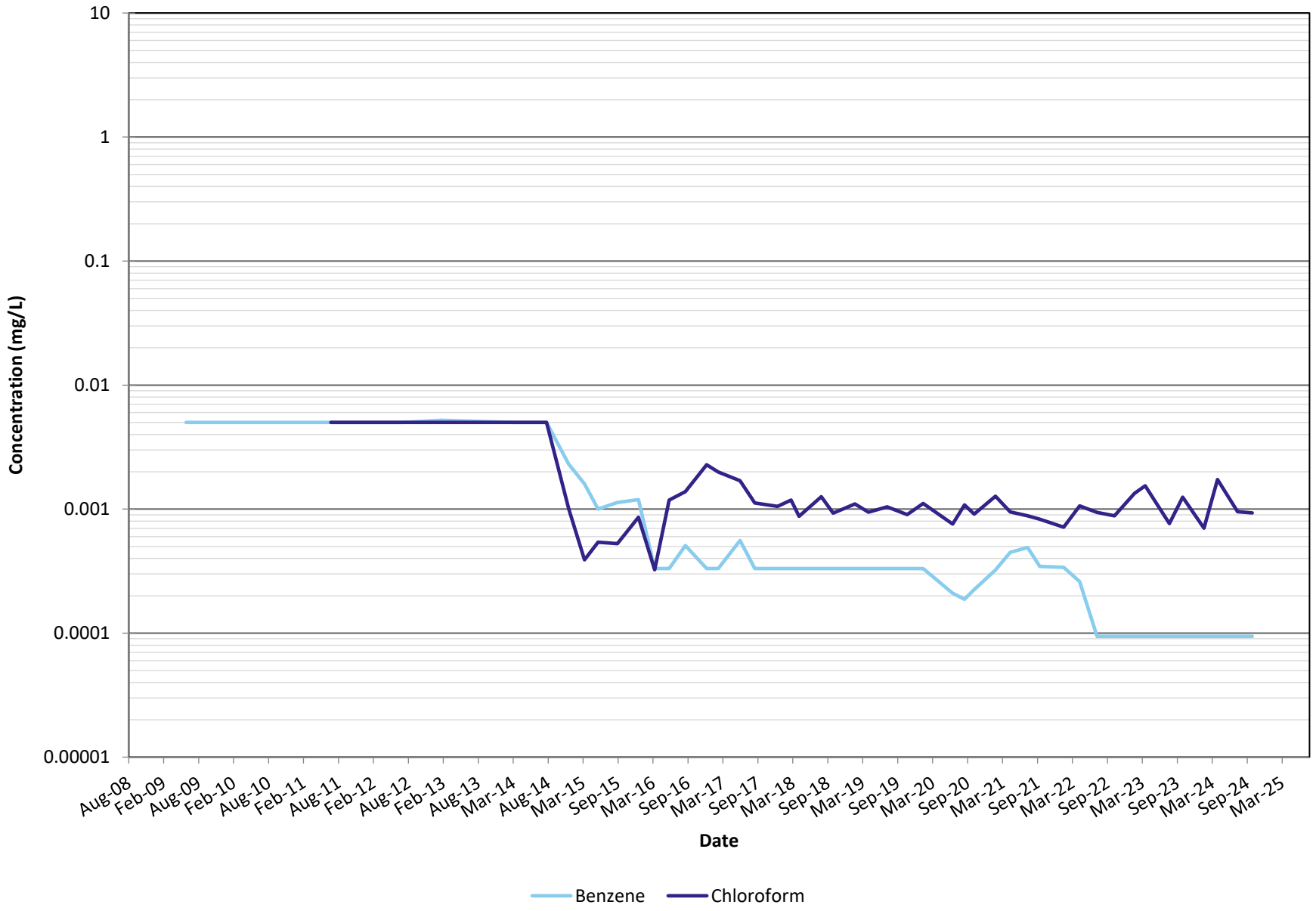


WW-North Anions CONCENTRATIONS OVER TIME

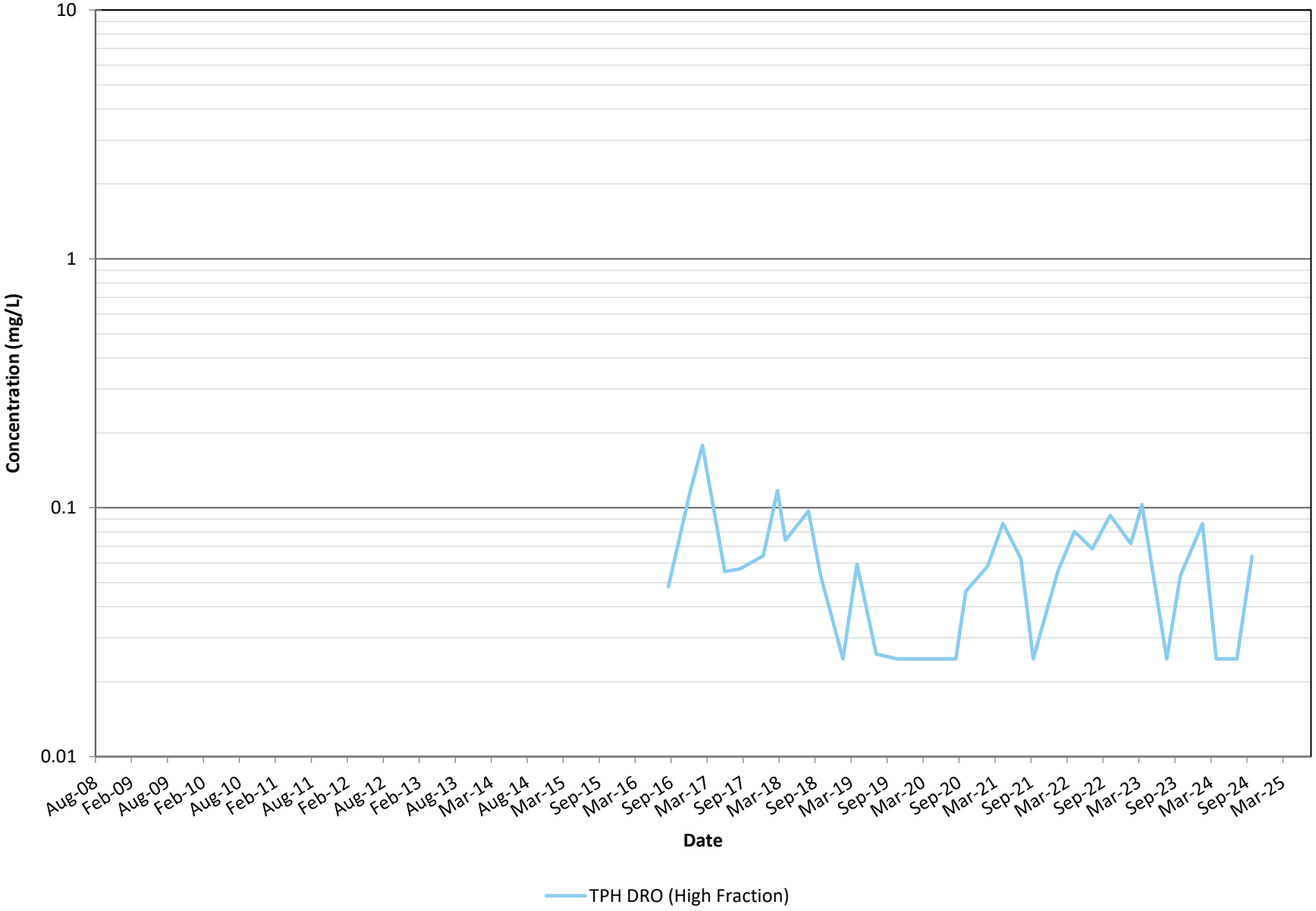


*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

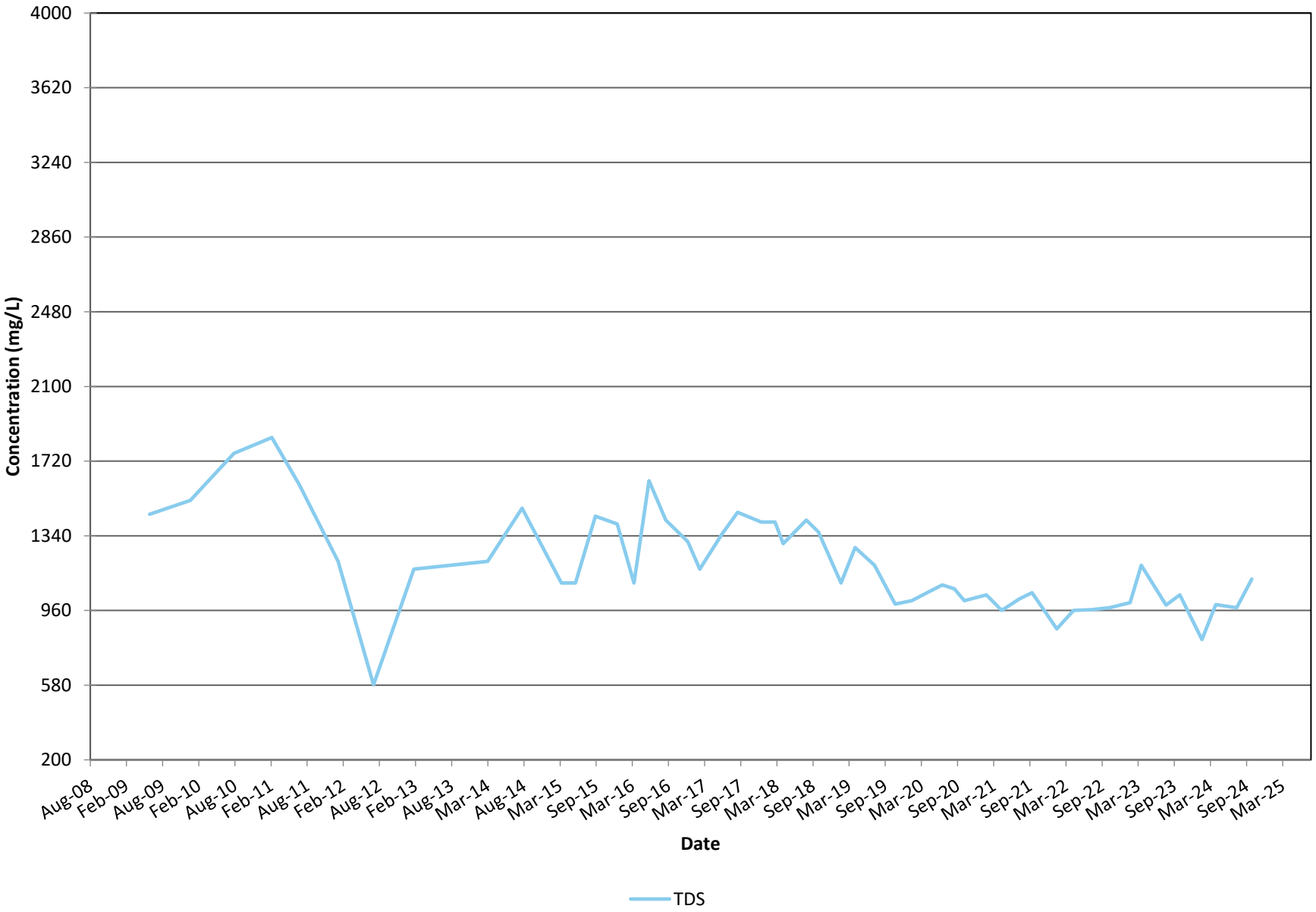
WW-South VOC CONCENTRATIONS OVER TIME



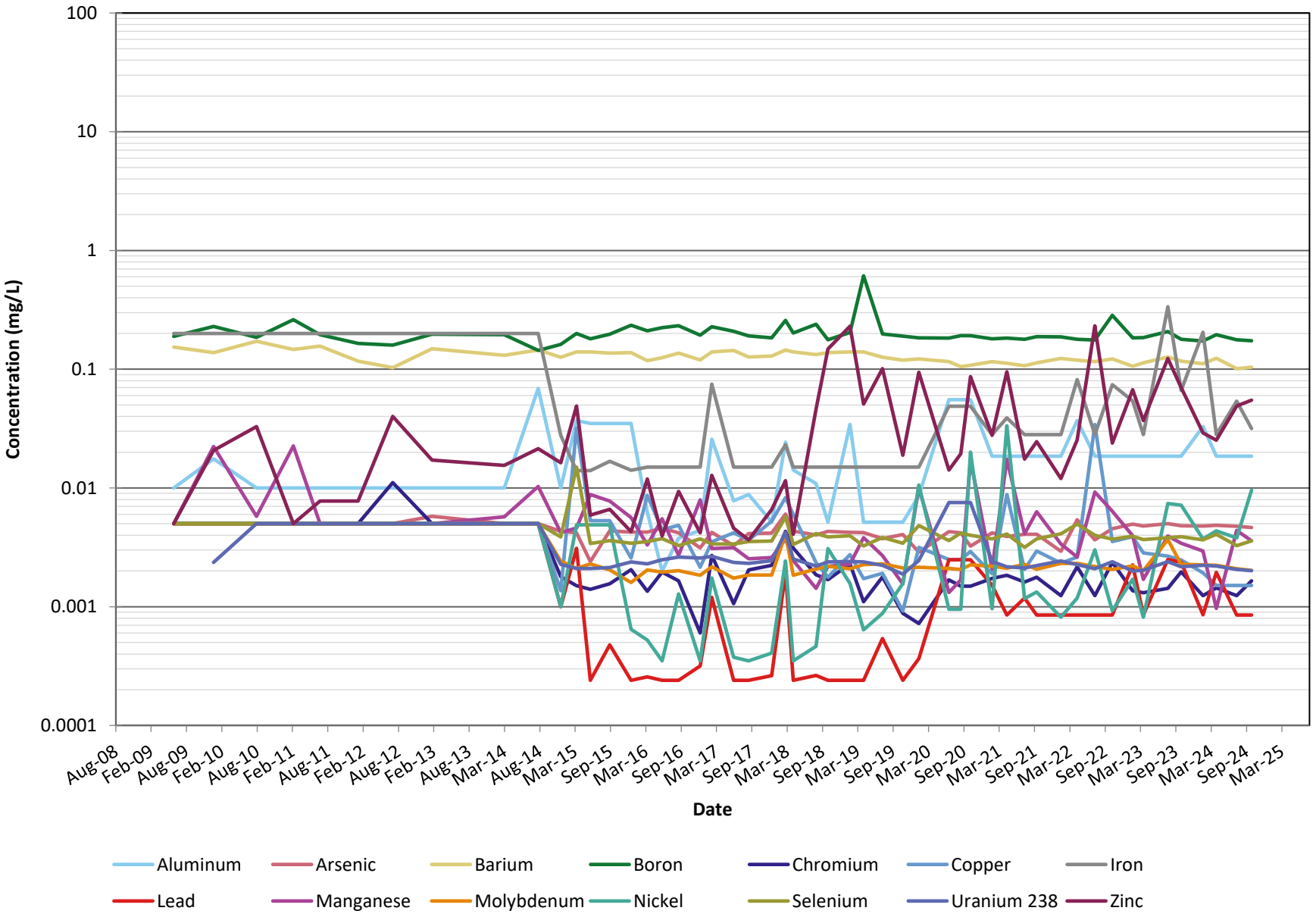
WW-South TPH CONCENTRATIONS OVER TIME



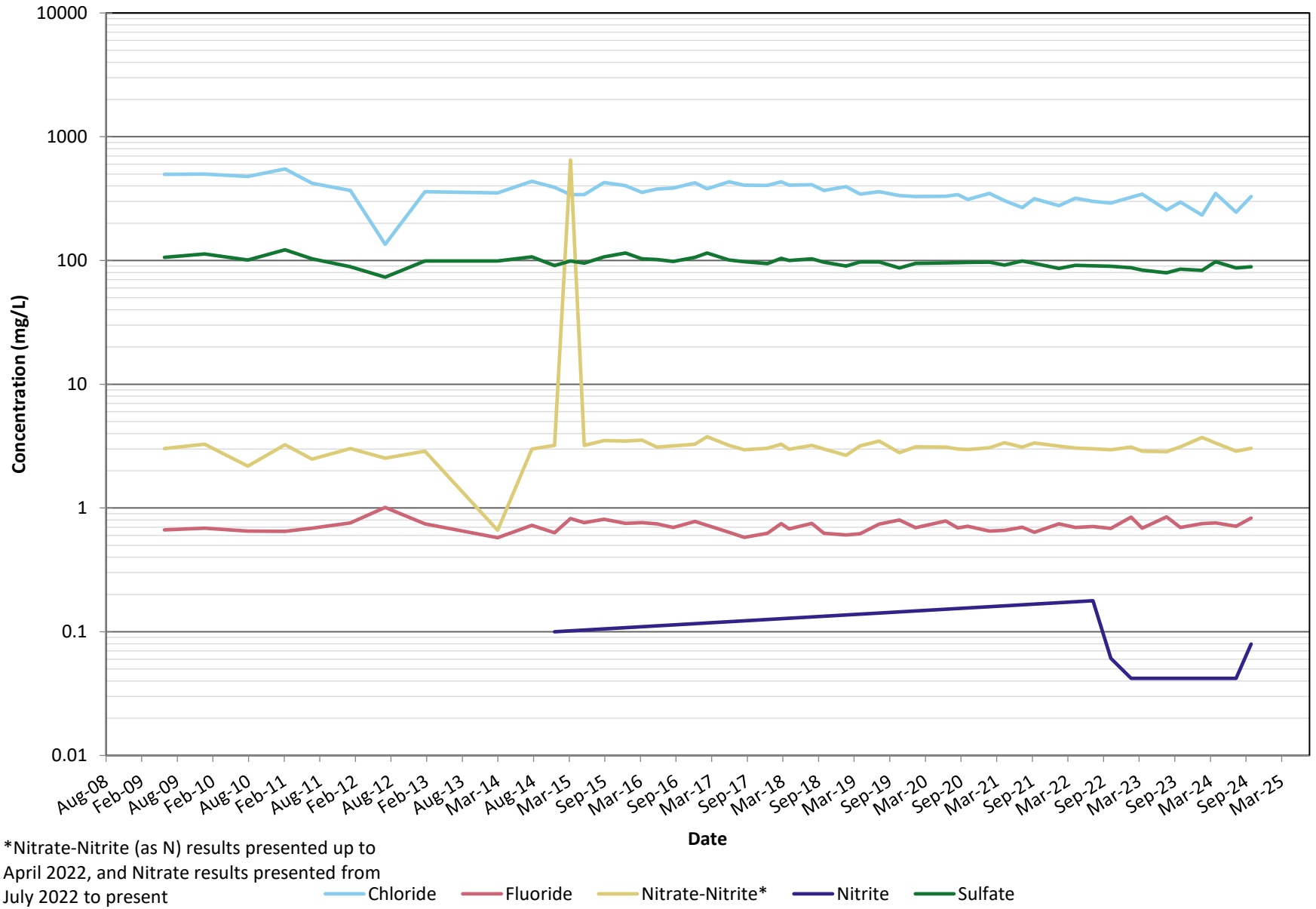
WW-South TDS CONCENTRATIONS OVER TIME



WW-South Metals CONCENTRATIONS OVER TIME



WW-South Anions CONCENTRATIONS OVER TIME



*Nitrate-Nitrite (as N) results presented up to April 2022, and Nitrate results presented from July 2022 to present

APPENDIX E

QUALITY ASSURANCE/QUALITY CONTROL DATA SUMMARY

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APPENDIX E – QUALITY ASSURANCE/QUALITY CONTROL DATA SUMMARY

1.1 Semi-Annual and Quarterly Groundwater Samples

Data reported by Pace Analytical in Mount Juliet, Tennessee for the groundwater samples collected in January, April, July, and October 2024 were reviewed in accordance with the United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, November 2020), and *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, November 2020), modified for the individual methods, as applicable. Three water samples, one duplicate, and one trip blank were collected on January 25, 2024. Twenty-six water samples, three field duplicates, two equipment blanks, and one trip blank were collected on April 4, 2024. Three water samples, one field duplicate, and one trip blank were collected on July 18, 2024. Twelve water samples, two field duplicates, one equipment blank, and two trip blanks were collected on October 3, 2024. Samples were analyzed for one or more of the following parameters:

- Dissolved solids by Standard Method (SM) 2540C-2011
- Alkalinity by SM 2320B-2011 (January 2024 event only)
- Chloride, fluoride, sulfate, nitrate, and/or nitrite by SW-846 Method 9056A
- Total mercury by SW-846 Method 7470A
- Dissolved boron by SW-846 Method 6010B
- Dissolved metals by SW-846 Method 6020 or 6020B
- Total Petroleum Hydrocarbons (TPH) Low Fraction by SW-846 Method 8015D
- Volatile organic compounds (VOCs) by SW-846 Method 8260B
- TPH High Fraction by SW-846 Methods 3511/8015
- Semi-volatile organic compounds (SVOCs) by SW-846 Method 8270C

TRC Quality Assurance (QA) staff reviewed the data. Four data packages identified as L1699138, L1722760 (revised 07/10/2024), L1758454, and L1785334 were reviewed. Data were reviewed for compliance with the analytical protocols used for sample analysis and laboratory-defined quality control (QC) limits. Items reviewed during the data evaluation process included the following:

- Sample integrity, preservation, and holding times

- Blank analyses
- Surrogate recoveries
- Matrix spike and matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs)
- Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries and RPDs
- Field duplicate and laboratory duplicate results
- Sample documentation

Data interpretation issues are identified in the following subsections. Alkalinity was analyzed in select samples from January 2024 but is not discussed in this summary other than in Section 1.1 above since the analyte is not required to be reported per the approved *Revised Facility-Wide Groundwater Monitoring Work Plan* (November 2017). The 2024 Facility-Wide Groundwater Monitoring Work Plan was approved by the New Mexico Oil Conservation Division (OCD) on March 12, 2024, which no longer requires the analysis of alkalinity. QC data indicate that measurement data are sufficient to meet method quality objectives, reported data are defensible, and QC mechanisms were generally effective in ensuring measurement data reliability within the expected limits of sampling and analytical error with the following exceptions.

- In April 2024, nitrate and nitrite were analyzed grossly outside of the 48-hour holding time (i.e., >96 hours after collection) for samples MW-3, MW-12R2, MW-32, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01 (WW-SOUTH), DUP-02 (MW-32), DUP-03 (MW-33), EB-01, and EB-02. Therefore, the detected nitrate and nitrite results in these samples may be biased low. The nondetect nitrite results in samples MW-3, MW-12R2, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01 (WW-SOUTH), DUP-03 (MW-33), EB-01, and EB-02, and the nondetect nitrate results in samples MW-33, DUP-03 (MW-33), EB-01, and EB-02 are not usable for project objectives.
- In April 2024, total mercury recovered significantly below the acceptance limits (i.e., <30%) in the MS/MSD analyses performed on sample MW-33. Therefore, the nondetect mercury results in all field samples collected in April 2024 are not usable for project objectives.

Several dilutions and/or reduced volumes were performed by the laboratory on select samples likely due to elevated concentrations of target and/or non-target analytes or matrix interferences; therefore, reported method detection limits (MDL) and method quantitation limits (MQL) (also referred to as reporting detection limit [RDL]) may be elevated in some cases.

1.1.1 Sample Integrity, Preservation, and Holding Times

Except as noted below, samples were received at the laboratory properly preserved and in good condition and samples were prepared and/or analyzed within the required holding times.

- In April 2024, nitrate and nitrite were analyzed approximately 11 days outside of the 48-hour holding time in samples MW-3, MW-12R2, MW-32, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01 (WW-SOUTH), DUP-02 (MW-32), DUP-03 (MW-33), EB-01, and EB-02. Therefore, the detected nitrate and nitrite results may be biased low in these samples. The nondetect nitrite results in samples MW-3, MW-12R2, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01 (WW-SOUTH), DUP-03 (MW-33), EB-01, and EB-02, and the nondetect nitrate results samples MW-33, DUP-03 (MW-33), EB-01, and EB-02 are not usable for project objectives.

- In April 2024, all samples, with the exception of the re-analysis for sample DUP-03 (MW-33), were prepared and/or analyzed for dissolved solids greater than 7 days but less than 8 days after the 7-day holding time expired. There is no adverse impact on the data usability due to this issue since these samples were prepared for dissolved solids on the 7th day but before the 8th day after collection. The laboratory reported two sets of dissolved solids results for sample DUP-03 (MW-33) due to a discrepancy with the conductivity result (which was not reported) as noted in the sample narrative. The re-analysis of dissolved solids for sample DUP-03 (MW-33) was performed approximately four days and 7 hours after the 7-day holding time expired. In order to remain conservative, the higher result for dissolved solids from the re-analysis on 4/15/24 should be used for project objectives and may be biased low due to the holding time exceedance.

- In April 2024, samples MW-33, DUP-03 (MW-33), and equipment blank EB-01 for TPH High Fraction were received with a pH >2. This pH issue shortens the extraction holding time to seven days and these samples were extracted for TPH High Fraction after seven days of collection. Therefore, potential low bias exists

for the positive TPH High Fraction results in samples MW-33 and DUP-03 and nondetect TPH High Fraction result in equipment blank EB-01.

- In October 2024, samples MW-32 and MW-33 for TPH High Fraction were received with a pH >2. This pH issue shortens the extraction holding time to seven days and these samples were extracted for TPH High Fraction after seven days of collection. Therefore, potential low bias exists for the positive TPH High Fraction results in samples MW-32 and MW-33.
- In October 2024, sample MW-33 for VOCs was received with a pH >2. This pH issue shortens the analysis holding time to seven days and this sample was analyzed for VOCs after seven days of collection. Therefore, potential low bias exists for the positive and nondetect VOC results in sample MW-33.
- In October 2024, sample DUP-02 (MW-32), was prepared for TPH High Fraction greater than 14 days but less than 15 days after the 14-day holding time expired. There is no adverse impact on the data usability due to this issue since this sample was prepared for TPH on the 14th day but before the 15th day after collection.
- In October 2024, all samples were prepared for SVOCs greater than 7 days but less than 8 days after the 7-day holding time expired. There is no adverse impact on the data usability due to this issue since this samples were prepared for SVOCs on the 7th day but before the 8th day after collection.

1.1.2 Surrogates

Except as noted below, in January, April, July, and October 2024, there were no surrogate recovery nonconformances in the VOC, SVOC, TPH Low Fraction, and/or TPH High Fraction analyses.

- In January 2024, the recovery for one of the VOC surrogates, 4-bromofluorobenzene (67.8%), in re-analysis of sample WW-EAST recovered below the laboratory-defined limits (77.0-126%). Therefore, the nondetect result for chloroform, the only VOC reported from the re-analysis, may be biased low.

1.1.3 Laboratory Method Blanks

Sample results were compared to associated blank results using a five times rule rather than the applicable USEPA guidance in order to remain consistent with historical evaluations.

- In January 2024, chloroform and TPH High Fraction were detected in one of the laboratory method blanks at concentrations of 0.000254 J mg/L and 0.0293 J mg/L in QC batches WG2214292 and WG2214556, respectively. The chloroform result in associated sample Trip Blank was nondetect and chloroform was reported from a different QC batch for the other samples from this data set, so no data interpretation issues were noted due to the chloroform nonconformance. The TPH High Fraction results in associated samples WW-NORTH and WW-SOUTH were less than five times the method blank concentration; therefore, these sample results may include measurement contributions from laboratory sources.

- In April 2024, chloride and nitrate were detected in one of the laboratory method blanks at concentrations of 0.667 J mg/L and 0.0589 J mg/L in QC batch WG2261452, and chloride was detected in one of the laboratory method blanks at a concentration of 0.436 J mg/L in QC batch WG2263166. The corresponding chloride and nitrate results were greater than 5x the method blank results, so no data interpretation issues were noted due to the chloride and nitrate detections.

- In April 2024, fluoride was detected in one of the laboratory method blanks at a concentration of 0.0872 J mg/L in QC batch WG2263160. The fluoride results in associated samples MW-33, DUP-02 (MW-32), EB-01, and EB-02 were less than five times the method blank concentration; therefore, these sample results may include measurement contributions from laboratory sources.

- In April 2024, dissolved barium was detected in one of the laboratory method blanks at a concentration of 0.000922 J mg/L in QC batch WG2262982, and dissolved silver was detected in one of the laboratory method blanks at a concentration of 0.0000806 J mg/L in QC batch WG2265555. The dissolved barium results in associated samples EB-01 and EB-02 were less than five times the method blank concentration; therefore, these sample results may include measurement contributions from laboratory sources. No data interpretation issues were noted due to the dissolved silver detection since dissolved sliver was not detected in the associated samples.

- In April 2024, TPH Low Fraction was detected in one of the laboratory method blanks at a concentration of 0.0372 J mg/L in QC batch WG2265329. The TPH Low Fraction results in associated samples MW-33, WW-SOUTH, DUP-03 (MW-33), and EB-01 were less than five times the method blank concentration; therefore, these sample results may include measurement contributions from laboratory sources.

- In April 2024, 2-chloronaphthalene was detected in one of the laboratory method blanks at a concentration of 0.000111 J mg/L in QC batch WG2263770. No data interpretation issues were noted due to the 2-chloronaphthalene detection since 2-chloronaphthalene was not detected in the associated samples.
- In July 2024, TPH High Fraction was detected in one of the laboratory method blanks at a concentration of 0.0500 J mg/L in QC batch WG2330436. The TPH High Fraction result in associated sample WW-NORTH was less than five times the method blank concentration; therefore, this sample result may include measurement contributions from laboratory sources.
- In October 2024, TPH Low Fraction was detected in one of the laboratory method blanks at a concentration of 0.0902 J mg/L in QC batch WG2380086. The TPH Low Fraction results in associated samples MW-32, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01, and DUP-02 were less than five times the method blank concentration; therefore, these sample results may include measurement contributions from laboratory sources.

1.1.4 Equipment Blanks

Sample results were compared to associated equipment blank results using a five times rule rather than the applicable USEPA guidance in order to remain consistent with historical evaluations. Sample results for analytes that were either greater than five times the equipment blank concentration or nondetect were not impacted by the equipment blank results and therefore are not discussed below. Samples collected from the water wells (WW-SOUTH, WW-NORTH, or WW-EAST) are not associated with equipment blanks.

- In April 2024, chloride, fluoride, sulfate, dissolved boron, dissolved barium, TPH Low Fraction, chloroform, and phenol were detected in equipment blank EB-01 at concentrations of 0.835 J mg/L, 0.112 J mg/L, 3.34 J mg/L, 0.0457 J mg/L, 0.00193 J mg/L, 0.0369 J mg/L, 0.00126 J mg/L, and 0.00441 J mg/L, respectively. Chloride, fluoride, dissolved boron, dissolved barium, and chloroform were detected in equipment blank EB-02 at concentrations of 0.730 J mg/L, 0.0985 J mg/L, 0.0520 J mg/L, 0.000921 J mg/L, and 0.00156 J mg/L, respectively. As discussed in Section 1.1.3, fluoride and dissolved barium in EB-01 and EB-02 and TPH Low Fraction in EB-01 were detected at concentrations less than five times their associated method blank sample concentrations; therefore, the presence of fluoride and dissolved barium in EB-01 and EB-02 and TPH Low Fraction in EB-01 were not used to evaluate the associated field sample results. Note that sample results for analytes that were either greater than

five times the maximum equipment blank concentration or nondetect were not impacted by the equipment blank results and therefore are not discussed below. The following results were detected at concentrations less than five times the maximum equipment blank concentration, as applicable:

- Sulfate: MW-33 and DUP-03 (MW-33);
- Dissolved boron: MW-1, MW-2, MW-4, MW-5, MW-6, MW-14R, MW-15R, MW-16R, MW-18R, MW-19R, MW-20R, MW-24R, MW-32, MW-33, DUP-02 (MW-32), and DUP-03 (MW-33); and
- Chloroform: MW-1, MW-2, MW-6, MW-11R, MW-13R, and MW-16R.

- In October 2024, carbon disulfide, cis-1,2-dichloroethene, trichloroethene, and fluoranthene were detected in equipment blank EB-01 at concentrations of 0.000119 J mg/L, 0.000730 J mg/L, 0.000433 J mg/L, and 0.000115 J mg/L, respectively. These compounds were not detected in the associated samples; therefore, there are no data interpretation issues due to the equipment blank detections.

1.1.5 Trip Blanks

In January and October 2024, there were no detections in the trip blank samples.

- In April 2024, methylene chloride was detected in the trip blank at a concentration of 0.000430 J mg/L. Methylene chloride was not detected in the associated samples; therefore, there are no data interpretation issues due to the trip blank detection.
- In July 2024, acetone was detected in the trip blank at a concentration of 0.0119 J mg/L. Acetone was not detected in the associated samples; therefore, there are no data interpretation issues due to the trip blank detection.

1.1.6 LCS/LCSDs

- In January 2024, the LCS and/or LCSD recoveries for carbon tetrachloride (135%/133%), 1,2-dichloroethane (130%/ok), and 1,1,1-trichloroethane (130%/127%) were above the laboratory-defined limits (68.0-126%, 70.0-128%, and 73.0-124%, respectively) in QC batch WG2214292. 1,2-Dichloroethane and 1,1,1-trichloroethane were not detected in the associated samples; therefore, there are no data interpretation issues due to this nonconformance. Carbon tetrachloride was detected in associated samples WW-SOUTH and DUP-01; therefore, the carbon tetrachloride results in samples WW-SOUTH and DUP-01 may be biased high.

- In January 2024, the LCS/LCSD RPDs for 4-chloro-3-methylphenol (25.5%), 2,4-dimethylphenol (41.6%), and 2-methylphenol (33.3%) were above the laboratory-defined limits (21%, 26%, and 29%, respectively) in QC batch WG2214422. 4-Chloro-3-methylphenol, 2,4-dimethylphenol, and 2-methylphenol were not detected in the associated samples, WW-NORTH and WW-SOUTH; therefore, there are no data interpretation issues due to this nonconformance.

- In January 2024, the LCS recoveries for benzaldehyde (184%) and 4-nitrophenol (250%) were above the laboratory-defined limits (10.0-160% and 10.0-120%, respectively) in QC batch WG2217038. Benzaldehyde and 4-nitrophenol were not detected in associated samples, WW-EAST and DUP-01; therefore, there are no data interpretation issues due to this nonconformance.

- In April 2024, the LCS recoveries for benzaldehyde were above the laboratory-defined limits (10.0-160%) in QC batches WG2263382, WG2263770, and WG2264600 at 192%, 169%, and 222%, respectively. Benzaldehyde was not detected in associated samples; therefore, there are no data interpretation issues due to this nonconformance.

- In April 2024, the LCS/LCSD RPDs for several SVOCs (range: 22.4-85.3%, including phenol at 44.0%), were above the laboratory-defined limits (range: 20-40%, 36% for phenol) in QC batch WG2264600. Only phenol is listed specifically since phenol was the only detection in one of the associated samples, EB-01; therefore, phenol in EB-01 may be considered estimated. Since no other affected SVOCs were detected in associated samples (EB-01 and EB-02), there are no data interpretation issues due to the remaining RPD nonconformances.

- In July 2024, the LCS recoveries for carbon tetrachloride (127%) and 2-hexanone (62.8%) were outside the laboratory-defined limits (68.0-126% and 67.0-149%, respectively) in QC batch WG2328469. Carbon tetrachloride was detected in associated samples WW-SOUTH and DUP-01 (WW-SOUTH); therefore, the carbon tetrachloride results in samples WW-SOUTH and DUP-01 (WW-SOUTH) may be estimated, biased high. 2-Hexanone was not detected in all associated samples (all samples collected in July 2024); therefore, the results for 2-hexanone in all samples collected in July 2024 may be estimated, biased low.

- In July 2024, the LCS/LCSD recoveries for benzaldehyde (274%/226%) were above the laboratory-defined limits (10.0-160%) and the LCS/LCSD RPDs for several SVOCs (range: 20.2-40.5%) were above the laboratory-defined limits (range: 20-35%) in QC

batch WG2329378. Benzaldehyde and the other affected SVOCs were not detected in the associated samples; therefore, there are no data interpretation issues due to these nonconformances.

- In October 2024, the LCS recovery for benzaldehyde (212%) was outside the laboratory-defined limits (10.0-160%) in QC batch WG2379409. Benzaldehyde was not detected in the associated samples, MW-11R, MW-12R2, MW-32, MW-33, WW-NORTH, WW-SOUTH, WW-EAST, DUP-01, and DUP-02; therefore, there are no data interpretation issues due to this nonconformance.
- In October 2024, the LCS recovery for benzaldehyde (184%) was outside the laboratory-defined limits (10.0-160%) in QC batch WG2379410. Benzaldehyde was not detected in the associated sample, EB-01; therefore, there are no data interpretation issues due to this nonconformance.

1.1.7 MS/MSDs

The following table summarizes the MS and/or MSD analyses performed on samples in these data sets.

Sample ID	Analytical Parameters
January 2024	
WW-NORTH	Chloride, Fluoride, Sulfate, Nitrate, Nitrite
April 2024	
MW-10	Chloride, Fluoride, Sulfate, Nitrate, Nitrite
MW-12R2	Chloride, Fluoride, Sulfate
MW-14R	Chloride, Sulfate
MW-16R	Chloride, Fluoride, Sulfate, Nitrate, Nitrite
MW-33	VOCs, SVOCs, TPH Low Fraction, TPH High Fraction, Total Mercury, Dissolved Metals, Chloride, Fluoride, Sulfate, Nitrate, Nitrite
EB-02	Nitrate, Nitrite, Dissolved Metals (except Dissolved Boron)
July 2024	
WW-NORTH	Dissolved Metals (except Dissolved Boron)
October 2024	
MW-33	VOCs, SVOCs, TPH Low Fraction, TPH High Fraction, Total Mercury, Dissolved Metals (including Dissolved Boron)

- In January 2024, the recoveries for chloride (41.4%/41.2%) and sulfate (69.1%/68.3%) in the MS/MSD analyses performed on sample WW-NORTH were below laboratory-defined limits (80.0-120%) in QC batch WG2213797. Therefore, the detected chloride and sulfate results in all field samples collected in January 2024 may be biased low.

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- In April 2024, the recoveries for chloride (36.8%/32.1%) in the MS/MSD analyses performed on sample MW-33 were below laboratory-defined limits (80.0-120%) in QC batch WG2263160. Therefore, the detected chloride results in all field samples collected in April 2024, except MW-10, MW-12R2, and MW-16R, may be biased low.

- In April 2024, the recoveries for sulfate (62.6%/65.1%) in the MS/MSD analyses performed on sample MW-12R2 were below laboratory-defined limits (80.0-120%) in QC batch WG2263166; the RPD for fluoride (16.0%) was also above the laboratory-defined limit (15%). Therefore, the sulfate results in all field samples collected in April 2024, except MW-10, MW-16R, and MW-33, may be biased low, and the detected fluoride results in all field samples collected in April 2024, except MW-10, MW-16R, and MW-33, may be estimated.

- In April 2024, the recoveries for chloride (54.2%) and sulfate (78.9%) in the MS analysis performed on sample MW-14R were below laboratory-defined limits (80.0-120%) in QC batch WG2266241. Therefore, the chloride and sulfate results in all field samples collected in April 2024, except for chloride in samples MW-10, MW-16R, and MW-12R2, and sulfate in samples MW-10, MW-16R, and MW-33, may be biased low.

- In April 2024, the recoveries for total mercury (28.7%/28.4%) in the MS/MSD analyses performed on sample MW-33 were below laboratory-defined limits (75.0-125%) in QC batch WG2261624. The laboratory also flagged the result for total mercury in the parent sample with an "O1" flag, which the laboratory indicated via email was because the post digestion spike result (32.1%) recovered below the low-limit acceptance limit (80%). Therefore, the nondetect total mercury results in all field samples collected in April 2024 are not usable for project objectives due to the significantly low (<30%) MS/MSD recoveries.

- In April 2024, the recovery for dissolved barium (130%) in the MSD analysis performed on sample MW-33 was above the laboratory-specified limits (75.0-125%). However, the concentration of dissolved barium in the unspiked sample was greater than four times the concentration spiked; therefore, the recovery of dissolved barium was not used to evaluate potential matrix effects.

- In April 2024, the recovery for benzaldehyde (172%) in the MS analysis performed on sample MW-33 was above the laboratory-specified limits (10.0-160%). However, benzaldehyde was not detected in the parent sample, so there are no data interpretation issues noted due to this nonconformance.

- In October 2024, the MS/MSD recoveries for mercury (41.8/42.3%) in the MS/MSD analyses performed on sample MW-33 were below laboratory-defined limits (75.0-125%) in QC batch WG2376293. Therefore, the mercury results in all field samples collected in October 2024 may be biased low.
- In October 2024, the MS/MSD RPDs for several VOCs (range: 26.0-40.6%) in the MS/MSD performed on sample MW-33 were above the laboratory-defined limits (range: 25-38%) in QC batch WG2380457. These VOCs were not detected in the parent sample, so there are no data interpretation issues noted due to this nonconformance.
- In October 2024, the MS/MSD recoveries for TPH High Fraction (0.0%/0.0%) were below laboratory defined limits (50.0-150%) and the MS/MSD RPD for TPH High Fraction (30.5%) was above the laboratory defined limit (20%) in the MS/MSD analyses performed on sample MW-33 in QC batch WG2383842. Therefore, the positive result for TPH High Fraction in sample MW-33 may be considered estimated.
- In October 2024, the MS recoveries for benzo(g,h,i)perylene (35.8%), benzo(a)pyrene (36.0%), fluoranthene (39.2%), indeno(1,2,3-cd)pyrene (34.9%), n-nitrosodiphenylamine (32.3%), and pyrene (37.0%) in the MS analysis performed on sample MW-33 were below the laboratory-defined limits (range 37.0-125%) in QC batch WG2379409. The nondetect results for these analytes in sample MW-33 may be biased low.
- In October 2024, the MSD recoveries for benzaldehyde (253%) and 4-nitrophenol (191%) were above the laboratory defined limits (10.0-160% and 10.0-120%, respectively), and the MS/MSD RPDs for several SVOCs (range: 34.8-58.6%) in the MS/MSD performed on sample MW-33 were above the laboratory-defined limits (range: 21-40%) in QC batch WG2379409. No SVOC compounds were detected in the parent sample, so there are no data interpretation issues noted due to the high MSD recoveries or the high RPDs.

1.1.8 Laboratory Duplicates

The following table summarizes the laboratory duplicate analyses performed with these data sets.

Sample ID	Analytical Parameters
January 2024	
WW-NORTH	Chloride, Fluoride, Sulfate, Nitrate, Nitrite
WW-EAST	Dissolved Solids
DUP-01	Dissolved Solids

Sample ID	Analytical Parameters
April 2024	
MW-10	Chloride, Fluoride, Sulfate, Nitrate, Nitrite
MW-12R2	Chloride, Fluoride, Sulfate
MW-14R	Chloride, Sulfate
MW-16R	Chloride, Fluoride, Sulfate, Nitrate, Nitrite
MW-20R	Dissolved Solids
MW-32	Dissolved Solids
MW-33	Chloride, Fluoride, Sulfate
WW-EAST	Nitrate, Nitrite
EB-02	Nitrate, Nitrite
July 2024	
None	
October 2024	
MW-33	Dissolved Solids

Laboratory duplicate data that did not meet acceptance criteria are discussed below:

- In April 2024, the RPDs for fluoride in the laboratory duplicate analyses performed on samples MW-33 (20.8%) and MW-12R2 (23.4%) were above the laboratory-defined limit (15%) in QC batches WG2263160 and WG2263166, respectively. However, the results for fluoride were <5x the MQL in these samples, so there are no data interpretation issues noted due to these nonconformances.

1.1.9 Field Duplicates

The following table lists the original sample and duplicate pairs for each data set.

Sample ID	Duplicate Sample ID
January 2024	
WW-SOUTH	DUP-01
April 2024	
WW-SOUTH	DUP-01
MW-32	DUP-02
MW-33	DUP-03
July 2024	
WW-SOUTH	DUP-01
October 2024*	
WW-SOUTH	DUP-01
MW-32	DUP-02

Field duplicate acceptance criteria are as follows: RPD is <30% when both results are >5x the MQL; when one or both the original and duplicate results are <5x the MQL, then the absolute difference must be < the MQL. Field duplicate data that did not meet acceptance criteria are discussed below:

- In April 2024, the original result for fluoride was >5x the MQL and the duplicate result was <5x the MQL in the field duplicate pair WW-SOUTH/DUP-01. Also, the original and duplicate results for fluoride were <5x the MQL in the field duplicate pair MW-33/DUP-03. The absolute differences between WW-SOUTH/DUP-01 (0.264 mg/L) and MW-33/DUP-03 (0.282 mg/L) were > the MQL (0.150 mg/L). Therefore, the results for fluoride in field samples collected in April 2024 except MW-32 and DUP-02 may be considered estimated.

- In July 2024, the original and duplicate results for dissolved nickel and dissolved zinc were <5x the MQL in the field duplicate pair WW-SOUTH/DUP-01. The absolute differences between WW-SOUTH/DUP-01 for dissolved nickel (0.0024 mg/L) and dissolved zinc (0.0308 mg/L) were > their MQLs (0.00200 mg/L and 0.0250 mg/L, respectively). Therefore, the results for dissolved nickel and dissolved zinc in field samples collected in July 2024 may be considered estimated.

- In October 2024, the original and duplicate results for dissolved nickel were <5x the MQL in the field duplicate pair WW-SOUTH/DUP-01. The absolute differences between WW-SOUTH/DUP-01 for dissolved nickel (0.00348 mg/L) was > the MQL (0.00200 mg/L). Therefore, the results for dissolved nickel in field samples collected in October 2024 may be considered estimated.

APPENDIX F

LNAPL GAUGING AND RECOVERY RESULTS, MONITORING WELL MW-31

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Appendix F - LNAPL Gauging and Recovery Results, Monitoring Well MW-31
HF Sinclair Navajo Refining LLC, GW-014, Lovington, New Mexico

Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
2/9/2017	105.04	98.92	6.12	3,719.22	100.52	99.81	0.71	3,719.24	7.50	7.50
3/3/2017	102.71	99.39	3.32	3,719.22	100.30	99.90	0.40	3,719.20	3.28	10.8
3/8/2017	101.21	99.57	1.64	3,719.32	99.95	99.83	0.12	3,719.32	1.19	12.0
3/15/2017	101.48	99.45	2.03	3,719.38	99.98	99.82	0.16	3,719.32	1.59	13.5
3/22/2017	101.84	99.34	2.50	3,719.41	100.07	99.99	0.08	3,719.17	1.72	15.3
3/29/2017	101.73	99.42	2.31	3,719.36	100.47	100.37	0.10	3,718.78	1.72	17.0
4/4/2017	101.79	99.47	2.32	3,719.31	100.27	100.11	0.16	3,719.03	1.85	18.8
4/12/2017	101.77	99.37	2.40	3,719.40	100.30	100.10	0.20	3,719.04	1.85	20.7
4/19/2017	101.71	99.40	2.31	3,719.38	100.27	100.17	0.10	3,718.98	1.72	22.4
4/24/2017	101.48	99.45	2.03	3,719.38	100.09	99.77	0.32	3,719.35	1.66	24.1
4/25/2017	100.68	99.67	1.01	3,719.33	99.83	99.78	0.05	3,719.38	0.96	25.0
4/26/2017	100.82	99.56	1.26	3,719.40	100.02	99.75	0.27	3,719.37	2.50	27.5
4/27/2017	100.51	99.61	0.90	3,719.41	99.88	99.73	0.15	3,719.41	1.50	29.0
4/28/2017	100.73	99.55	1.18	3,719.42	99.68	99.59	0.09	3,719.56	1.00	30.0
5/4/2017	101.44	99.52	1.92	3,719.33	100.33	99.74	0.59	3,719.33	1.45	31.5
5/11/2017	101.59	99.59	2.00	3,719.24	100.00	99.89	0.11	3,719.26	1.85	33.3
5/16/2017	101.78	99.62	2.16	3,719.19	100.30	99.83	0.47	3,719.26	1.45	34.8
5/18/2017	101.73	99.58	2.15	3,719.23	100.37	99.43	0.94	3,719.58	1.32	36.1
5/24/2017	101.85	99.38	2.47	3,719.37	100.89	99.98	0.91	3,719.04	1.72	37.8
5/31/2017	101.49	99.55	1.94	3,719.29	100.26	99.38	0.88	3,719.64	1.19	39.0
6/12/2017	103.28	99.50	3.78	3,719.03	100.80	99.96	0.84	3,719.07	2.51	41.5
6/23/2017	101.78	99.61	2.17	3,719.19	100.04	99.83	0.21	3,719.30	1.32	42.8
6/26/2017	101.71	99.70	2.01	3,719.13	100.27	99.87	0.40	3,719.23	1.45	44.3
6/29/2017	101.59	99.54	2.05	3,719.28	100.56	99.89	0.67	3,719.17	1.45	45.7
7/6/2017	100.78	99.65	1.13	3,719.33	100.02	99.63	0.39	3,719.47	1.72	47.5
7/11/2017	101.48	99.59	1.89	3,719.26	100.37	99.67	0.70	3,719.38	1.32	48.8
7/13/2017	103.58	99.91	3.67	3,718.64	101.13	100.42	0.71	3,718.63	1.98	50.8
7/18/2017	102.90	99.98	2.92	3,718.70	101.11	100.32	0.79	3,718.72	1.72	52.5
7/21/2017	101.54	99.54	2.00	3,719.29	--	--	--	--	1.32	53.8
8/22/2017	101.03	100.41	0.62	3,718.66	--	--	--	--	0.26	54.1
8/23/2017	101.01	100.04	0.97	3,718.97	--	--	--	--	0.26	54.3
8/29/2017	101.46	100.36	1.10	3,718.62	--	--	--	--	0.26	54.6
8/31/2017	101.45	100.35	1.10	3,718.63	--	--	--	--	0.26	54.9
9/5/2017	101.35	100.31	1.04	3,718.68	--	--	--	--	0.26	55.1
9/7/2017	101.13	100.25	0.88	3,718.77	--	--	--	--	0.26	55.4
9/11/2017	101.47	100.36	1.11	3,718.62	--	--	--	--	0.26	55.6
9/12/2017	101.45	100.35	1.10	3,718.63	--	--	--	--	0.26	55.9
9/14/2017	101.44	100.36	1.08	3,718.63	--	--	--	--	0.26	56.2
9/18/2017	101.47	100.27	1.20	3,718.70	--	--	--	--	0.26	56.4
9/19/2017	101.38	100.23	1.15	3,718.75	--	--	--	--	0.26	56.7
9/20/2017	101.44	100.32	1.12	3,718.66	--	--	--	--	0.26	57.0
9/22/2017	101.40	100.28	1.12	3,718.70	--	--	--	--	0.26	57.2
9/25/2017	101.47	100.25	1.22	3,718.71	--	--	--	--	0.26	57.5

Appendix F - LNAPL Gauging and Recovery Results, Monitoring Well MW-31
HF Sinclair Navajo Refining LLC, GW-014, Lovington, New Mexico

Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
9/26/2017	101.45	100.36	1.09	3,718.63	--	--	--	--	0.26	57.8
9/27/2017	101.45	100.35	1.10	3,718.63	--	--	--	--	0.26	58.0
9/28/2017	101.13	100.20	0.93	3,718.81	--	--	--	--	0.26	58.3
10/2/2017	101.47	100.25	1.22	3,718.71	--	--	--	--	0.26	58.5
10/3/2017	101.45	100.36	1.09	3,718.63	--	--	--	--	0.26	58.8
10/4/2017	102.67	100.14	2.53	3,718.60	--	--	--	--	0.26	59.1
10/5/2017	102.73	100.10	2.63	3,718.63	--	--	--	--	0.26	59.3
10/9/2017	101.44	100.36	1.08	3,718.63	--	--	--	--	0.26	59.6
10/10/2017	101.46	100.36	1.10	3,718.62	--	--	--	--	0.26	59.9
10/12/2017	102.67	100.14	2.53	3,718.60	--	--	--	--	0.26	60.1
10/13/2017	102.50	100.05	2.45	3,718.71	--	--	--	--	0.26	60.4
10/16/2017	102.46	100.05	2.41	3,718.71	--	--	--	--	0.26	60.7
10/17/2017	102.56	100.23	2.33	3,718.55	--	--	--	--	0.26	60.9
10/18/2017	102.22	100.23	1.99	3,718.61	--	--	--	--	0.26	61.2
10/19/2017	102.71	99.89	2.82	3,718.81	--	--	--	--	0.26	61.5
10/23/2017	102.62	100.15	2.47	3,718.60	--	--	--	--	0.26	61.7
10/24/2017	101.87	99.57	2.30	3,719.21	--	--	--	--	0.26	62.0
10/25/2017	101.88	99.87	2.01	3,718.96	--	--	--	--	0.26	62.2
10/31/2017	102.82	100.00	2.82	3,718.70	--	--	--	--	0.26	62.5
11/1/2017	102.70	100.02	2.68	3,718.70	--	--	--	--	0.26	62.8
11/2/2017	102.72	100.00	2.72	3,718.71	--	--	--	--	0.26	63.0
11/3/2017	102.41	100.05	2.36	3,718.72	--	--	--	--	0.26	63.3
11/6/2017	102.44	100.13	2.31	3,718.65	--	--	--	--	0.26	63.6
11/7/2017	102.23	100.20	2.03	3,718.63	--	--	--	--	0.26	63.8
11/8/2017	102.43	100.25	2.18	3,718.55	--	--	--	--	0.26	64.1
11/13/2017	102.60	100.07	2.53	3,718.67	--	--	--	--	0.26	64.4
11/14/2017	102.35	100.12	2.23	3,718.67	--	--	--	--	0.26	64.6
11/15/2017	102.10	100.17	1.93	3,718.68	--	--	--	--	0.26	64.9
11/16/2017	101.88	100.21	1.67	3,718.68	--	--	--	--	0.26	65.2
11/17/2017	101.85	100.27	1.58	3,718.63	--	--	--	--	0.26	65.4
11/20/2017	102.05	100.15	1.90	3,718.70	101.12	100.40	0.72	3,718.65	1.45	66.9
11/22/2017	101.20	100.40	0.80	3,718.64	100.94	100.45	0.49	3,718.64	0.53	67.4
11/28/2017	101.05	100.47	0.58	3,718.60	--	--	--	--	0.26	67.7
11/29/2017	101.26	100.58	0.68	3,718.48	--	--	--	--	0.26	67.9
11/30/2017	101.27	100.56	0.71	3,718.49	--	--	--	--	0.26	68.2
12/1/2017	101.27	100.55	0.72	3,718.50	--	--	--	--	0.26	68.5
12/4/2017	101.30	100.67	0.63	3,718.39	--	--	--	--	0.26	68.7
12/5/2017	101.37	100.66	0.71	3,718.39	--	--	--	--	0.26	69.0
12/6/2017	101.23	100.50	0.73	3,718.55	--	--	--	--	0.26	69.2
12/7/2017	101.33	100.54	0.79	3,718.50	--	--	--	--	0.26	69.5
12/8/2017	101.28	100.56	0.72	3,718.49	--	--	--	--	0.26	69.8
12/12/2017	102.78	100.12	2.66	3,718.60	--	--	--	--	0.26	70.0
12/13/2017	102.75	100.09	2.66	3,718.63	--	--	--	--	0.26	70.3

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Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
12/14/2017	--	--	--	--	102.66	100.26	2.40	3,718.51	1.98	72.3
12/15/2017	101.28	100.48	0.80	3,718.56	--	--	--	--	0.26	72.6
12/18/2017	101.64	100.38	1.26	3,718.58	--	--	--	--	0.26	72.8
12/19/2017	101.60	100.34	1.26	3,718.62	--	--	--	--	0.26	73.1
12/21/2017	101.75	100.35	1.40	3,718.58	--	--	--	--	0.26	73.3
12/22/2017	101.66	100.43	1.23	3,718.53	--	--	--	--	0.26	73.6
1/2/2018	104.05	99.85	4.20	3,718.61	--	--	--	--	0.26	73.9
1/3/2018	104.10	99.93	4.17	3,718.54	--	--	--	--	0.26	74.1
1/4/2018	104.13	99.89	4.24	3,718.57	--	--	--	--	0.26	74.4
1/9/2018	104.14	99.88	4.26	3,718.57	--	--	--	--	0.26	74.7
1/12/2018	104.15	99.90	4.25	3,718.55	--	--	--	--	0.26	74.9
1/18/2018	104.63	99.82	4.81	3,718.54	--	--	--	--	0.26	75.2
1/19/2018	104.66	99.84	4.82	3,718.52	--	--	--	--	0.26	75.5
1/23/2018	104.68	99.93	4.75	3,718.44	--	--	--	--	0.26	75.7
1/26/2018	104.60	99.86	4.74	3,718.51	--	--	--	--	0.26	76.0
1/31/2018	105.51	99.70	5.81	3,718.49	--	--	--	--	0.26	76.2
2/2/2018	105.55	99.78	5.77	3,718.42	--	--	--	--	0.26	76.5
2/9/2018	--	--	--	--	105.68	99.35	6.33	3,718.75	1.72	78.2
2/14/2018	--	--	--	--	104.67	99.43	5.24	3,718.86	1.59	79.8
2/21/2018	--	--	--	--	105.51	99.73	5.78	3,718.47	1.45	81.3
3/6/2018	--	--	--	--	105.78	100.43	5.35	3,717.84	1.59	82.9
3/12/2018	--	--	--	--	105.77	100.35	5.42	3,717.91	1.32	84.2
3/16/2018	--	--	--	--	105.48	100.29	5.19	3,718.01	1.45	85.6
3/20/2018	--	--	--	--	106.26	99.75	6.51	3,718.32	1.06	86.7
3/21/2018	106.02	99.77	6.25	3,718.35	101.53	100.71	0.82	3,718.32	1.19	87.9
3/22/2018	102.04	100.06	1.98	3,718.78	101.38	100.78	0.60	3,718.29	1.32	89.2
3/26/2018	104.53	100.13	4.40	3,718.30	101.82	100.69	1.13	3,718.29	1.59	90.8
3/27/2018	102.45	100.06	2.39	3,718.71	101.53	100.79	0.74	3,718.26	1.19	92.0
3/28/2018	102.28	100.56	1.72	3,718.32	101.49	100.73	0.76	3,718.31	1.06	93.0
4/5/2018	105.55	100.05	5.50	3,718.19	101.34	100.90	0.44	3,718.20	5.00	98.0
4/11/2018	104.18	100.36	3.82	3,718.17	101.76	100.84	0.92	3,718.18	1.72	99.7
4/16/2018	105.03	100.26	4.77	3,718.11	101.73	100.89	0.84	3,718.14	3.70	103
4/19/2018	105.15	100.37	4.78	3,718.00	101.89	100.81	1.08	3,718.18	2.64	106
4/20/2018	104.05	100.32	3.73	3,718.22	101.53	100.73	0.80	3,718.31	2.77	109
4/24/2018	105.19	100.38	4.81	3,717.98	101.79	100.88	0.91	3,718.14	3.96	113
4/25/2018	104.20	100.29	3.91	3,718.22	101.39	100.79	0.60	3,718.28	3.43	116
4/30/2018	105.17	100.40	4.77	3,717.97	101.67	100.80	0.87	3,718.22	3.96	120
5/1/2018	104.67	100.52	4.15	3,717.95	101.49	100.03	1.46	3,718.89	2.77	123
5/3/2018	104.55	100.58	3.97	3,717.92	101.40	100.67	0.73	3,718.38	3.17	126
5/8/2018	105.09	100.41	4.68	3,717.97	101.77	100.08	1.69	3,718.81	1.59	128
5/9/2018	106.02	99.69	6.33	3,718.41	101.56	100.77	0.79	3,718.27	1.85	130
5/10/2018	105.67	99.70	5.97	3,718.47	101.64	100.71	0.93	3,718.30	2.25	132
5/14/2018	104.63	99.82	4.81	3,718.54	101.55	100.87	0.68	3,718.19	2.64	134

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	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
5/16/2018	104.32	100.58	3.74	3,717.96	101.49	100.98	0.51	3,718.10	2.25	137
5/17/2018	102.54	99.39	3.15	3,719.25	100.77	99.90	0.87	3,719.12	1.85	139
5/18/2018	102.09	100.1	1.99	3,718.74	101.35	100.81	0.54	3,718.27	1.85	140
5/21/2018	102.77	99.39	3.38	3,719.21	100.37	99.98	0.39	3,719.12	4.09	145
5/23/2018	101.78	99.57	2.21	3,719.23	99.89	99.83	0.06	3,719.33	1.85	146
5/24/2018	101.48	99.47	2.01	3,719.36	99.95	99.88	0.07	3,719.28	1.85	148
5/25/2018	101.44	99.61	1.83	3,719.25	100.29	99.83	0.46	3,719.26	1.98	150
5/30/2018	102.71	99.37	3.34	3,719.24	101.31	99.79	1.52	3,719.12	1.72	152
6/1/2018	101.79	99.47	2.32	3,719.31	100.32	99.89	0.43	3,719.21	1.85	154
6/4/2018	104.18	100.36	3.82	3,718.17	101.76	100.84	0.92	3,718.18	1.45	155
6/6/2018	106.51	100.53	5.98	3,717.63	102.16	101.38	0.78	3,717.66	1.45	157
6/7/2018	104.18	100.36	3.82	3,718.17	101.76	100.84	0.92	3,718.18	1.59	158
6/12/2018	105.03	100.26	4.77	3,718.11	101.73	100.29	1.44	3,718.64	1.59	160
6/14/2018	102.73	99.42	3.31	3,719.19	101.73	100.47	1.26	3,718.49	1.59	161
6/19/2018	101.44	99.54	1.90	3,719.31	100.33	99.74	0.59	3,719.33	1.72	163
6/20/2018	101.48	99.45	2.03	3,719.38	99.98	99.82	0.16	3,719.32	1.85	165
6/25/2018	101.20	100.4	0.80	3,718.64	100.94	100.45	0.49	3,718.64	1.85	167
6/27/2018	101.77	99.37	2.40	3,719.40	100.27	100.07	0.20	3,719.07	1.32	168
6/29/2018	101.57	99.82	1.75	3,719.06	100.73	99.87	0.86	3,719.16	1.72	170
7/3/2018	101.66	99.92	1.74	3,718.96	100.64	100.10	0.54	3,718.98	1.32	171
7/5/2018	101.45	99.79	1.66	3,719.10	100.32	99.81	0.51	3,719.27	1.32	173
7/10/2018	101.47	99.69	1.78	3,719.18	100.27	99.88	0.39	3,719.22	1.06	174
7/20/2018	101.21	99.57	1.64	3,719.32	100.21	99.83	0.38	3,719.28	1.19	175
7/25/2018	101.77	99.37	2.40	3,719.40	100.30	100.10	0.20	3,719.04	1.45	176
7/27/2018	101.78	99.62	2.16	3,719.19	100.30	99.83	0.47	3,719.26	1.32	178
7/30/2018	106.75	100.90	5.85	3,717.29	101.99	101.75	0.24	3,717.38	9.25	187
8/7/2018	101.48	99.45	2.03	3,719.38	100.09	99.77	0.32	3,719.35	1.32	188
8/10/2018	100.78	99.65	1.13	3,719.33	100.02	99.63	0.39	3,719.47	1.45	190
8/14/2018	103.58	99.91	3.67	3,718.64	101.13	100.42	0.71	3,718.63	1.59	191
8/16/2018	104.18	100.36	3.82	3,718.17	101.76	100.84	0.92	3,718.18	1.32	192
8/22/2018	101.73	99.58	2.15	3,719.23	100.37	99.43	0.94	3,719.58	1.59	194
8/23/2018	101.59	99.54	2.05	3,719.28	101.56	99.89	1.67	3,719.00	1.45	196
8/31/2018	106.02	99.77	6.25	3,718.35	101.53	100.71	0.82	3,718.32	1.72	197
9/3/2018	104.67	100.52	4.15	3,717.95	101.49	100.03	1.46	3,718.89	1.59	199
9/6/2018	105.67	99.70	5.97	3,718.47	101.64	100.71	0.93	3,718.30	1.72	201
9/11/2018	102.71	99.29	3.42	3,719.30	100.30	99.90	0.40	3,719.20	1.98	203
9/12/2018	101.77	99.37	2.40	3,719.40	100.30	100.10	0.20	3,719.04	1.59	204
9/19/2018	106.59	101.30	5.29	3,716.98	101.77	100.08	1.69	3,718.81	1.85	206
9/26/2018	104.57	101.46	3.11	3,717.19	102.55	100.20	2.35	3,718.57	1.85	208
10/1/2018	106.82	101.07	5.75	3,717.13	--	--	--	--	0.26	208
10/4/2018	106.78	101.09	5.69	3,717.12	102.77	101.91	0.86	3,717.12	4.76	213
10/5/2018	104.15	101.69	2.46	3,717.07	102.44	101.98	0.46	3,717.11	2.51	215
10/9/2018	105.96	101.36	4.60	3,717.04	102.64	102.01	0.63	3,717.05	4.49	220

Appendix F - LNAPL Gauging and Recovery Results, Monitoring Well MW-31
HF Sinclair Navajo Refining LLC, GW-014, Lovington, New Mexico

Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
10/11/2018	105.12	101.55	3.57	3,717.02	102.57	102.10	0.47	3,716.99	3.43	223
10/16/2018	105.63	101.27	4.36	3,717.17	102.32	102.20	0.12	3,716.95	4.49	228
10/18/2018	106.58	101.63	4.95	3,716.71	102.87	102.53	0.34	3,716.58	3.70	231
10/23/2018	105.83	101.37	4.46	3,717.05	102.85	102.68	0.17	3,716.46	3.70	235
10/25/2018	105.67	101.73	3.94	3,716.78	101.86	101.53	0.33	3,717.58	4.49	240
10/30/2018	104.68	101.43	3.25	3,717.19	102.74	102.59	0.15	3,716.55	3.70	243
11/1/2018	105.23	101.77	3.46	3,716.82	102.56	101.98	0.58	3,717.09	3.70	247
11/6/2018	105.55	101.96	3.59	3,716.61	102.54	102.38	0.16	3,716.76	4.23	251
11/8/2018	105.78	101.68	4.10	3,716.80	102.68	102.53	0.15	3,716.61	2.64	254
11/13/2018	105.66	101.67	3.99	3,716.83	102.53	102.36	0.17	3,716.78	2.64	257
11/14/2018	105.23	101.78	3.45	3,716.81	102.47	102.26	0.21	3,716.87	3.96	260
11/20/2018	106.93	101.31	5.62	3,716.91	104.25	101.85	2.40	3,716.92	3.96	264
11/27/2018	106.59	101.4	5.19	3,716.90	102.55	101.78	0.77	3,717.26	3.96	268
11/29/2018	106.87	101.17	5.70	3,717.04	102.62	101.75	0.87	3,717.27	3.96	272
12/4/2018	105.87	101.36	4.51	3,717.05	102.59	101.83	0.76	3,717.21	2.64	275
12/5/2018	105.67	101.37	4.30	3,717.08	102.79	101.76	1.03	3,717.24	3.96	279
12/11/2018	106.48	101.66	4.82	3,716.70	102.86	101.82	1.04	3,717.17	3.96	283
12/12/2018	105.79	101.83	3.96	3,716.67	102.66	101.92	0.74	3,717.13	4.49	287
12/18/2018	105.87	101.56	4.31	3,716.88	102.55	101.36	1.19	3,717.61	3.96	291
12/20/2018	105.79	101.46	4.33	3,716.98	102.36	101.45	0.91	3,717.57	2.64	294
12/28/2018	107	101.2	5.80	3,716.99	103.59	101.90	1.69	3,716.99	5.28	299
1/8/2019	107.88	101.75	6.13	3,716.39	102.59	101.98	0.61	3,717.09	5.28	305
1/10/2019	106.86	101.68	5.18	3,716.62	102.76	101.73	1.03	3,717.27	6.60	311
1/15/2019	106.56	101.74	4.82	3,716.62	102.83	101.76	1.07	3,717.23	6.60	318
1/17/2019	106.78	101.62	5.16	3,716.68	102.62	101.86	0.76	3,717.18	5.28	323
1/23/2019	106.52	101.47	5.05	3,716.85	102.65	101.72	0.93	3,717.29	4.49	328
1/24/2019	106.72	101.45	5.27	3,716.83	102.73	101.82	0.91	3,717.20	5.28	333
1/30/2019	106.78	101.64	5.14	3,716.66	102.35	101.86	0.49	3,717.23	7.13	340
1/31/2019	105.89	101.63	4.26	3,716.82	102.72	101.84	0.88	3,717.18	4.49	345
2/5/2019	106.63	101.83	4.80	3,716.53	102.36	101.85	0.51	3,717.23	5.28	350
2/7/2019	105.87	101.63	4.24	3,716.83	102.83	101.86	0.97	3,717.15	4.49	354
2/12/2019	105.67	101.78	3.89	3,716.74	102.73	101.23	1.50	3,717.69	5.28	360
2/14/2019	105.73	101.63	4.10	3,716.85	102.82	101.93	0.89	3,717.09	3.96	364
2/20/2019	105.32	101.53	3.79	3,717.00	102.37	101.86	0.51	3,717.22	4.49	368
2/21/2019	105.33	101.86	3.47	3,716.73	102.83	102.46	0.37	3,716.65	3.96	372
2/26/2019	106.98	101.26	5.72	3,716.95	102.78	101.89	0.89	3,717.13	3.96	376
2/28/2019	105.86	101.75	4.11	3,716.73	102.63	101.64	0.99	3,717.36	2.64	379
3/7/2019	105.68	101.56	4.12	3,716.92	102.68	101.57	1.11	3,717.41	3.96	383
3/13/2019	105.47	101.56	3.91	3,716.95	102.56	101.57	0.99	3,717.43	3.96	387
3/14/2019	105.52	101.53	3.99	3,716.97	102.47	101.83	0.64	3,717.23	4.49	391
3/20/2019	105.63	101.58	4.05	3,716.91	102.76	101.89	0.87	3,717.13	5.28	396
3/21/2019	102.05	100.15	1.90	3,718.70	101.14	100.40	0.74	3,718.65	3.96	400
3/25/2019	102.77	99.88	2.89	3,718.80	101.30	99.96	1.34	3,718.98	3.96	404

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Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
3/27/2019	102.45	100.05	2.40	3,718.72	101.57	100.58	0.99	3,718.42	2.64	407
4/1/2019 [3]	107.98	102.33	5.65	3,715.89	--	--	--	--	--	--
5/22/2019	108.14	102.56	5.58	3,715.67	--	--	--	--	35.0	442
5/24/2019	--	--	--	--	--	--	--	--	2.00	444
5/29/2019	--	--	--	--	--	--	--	--	14.0	458
5/31/2019	--	--	--	--	--	--	--	--	6.00	464
6/3/2019	--	--	--	--	--	--	--	--	5.00	469
6/7/2019	--	--	--	--	--	--	--	--	6.50	475
6/12/2019	--	--	--	--	--	--	--	--	9.00	484
6/14/2019	--	--	--	--	--	--	--	--	3.50	488
6/17/2019	105.61	103.21	2.40	3,715.56	--	--	--	--	4.00	492
6/20/2019	--	--	--	--	--	--	--	--	4.00	496
6/26/2019	--	--	--	--	--	--	--	--	9.00	505
7/2/2019	--	--	--	--	--	--	--	--	7.00	512
7/5/2019	--	--	--	--	--	--	--	--	0.00	512
7/11/2019	108.33	102.96	5.37	3,715.31	--	--	--	--	3.00	515
7/12/2019	--	--	--	--	--	--	--	--	3.00	518
7/15/2019	--	--	--	--	--	--	--	--	2.00	520
7/19/2019	--	--	--	--	--	--	--	--	6.00	526
7/23/2019	--	--	--	--	--	--	--	--	6.00	532
7/26/2019	--	--	--	--	--	--	--	--	3.00	535
7/31/2019	--	--	--	--	--	--	--	--	1.00	536
8/2/2019	--	--	--	--	--	--	--	--	6.00	542
8/7/2019	--	--	--	--	--	--	--	--	4.00	546
8/9/2019	--	--	--	--	--	--	--	--	2.00	548
8/13/2019	--	--	--	--	--	--	--	--	3.00	551
8/15/2019	--	--	--	--	--	--	--	--	2.00	553
8/20/2019	--	--	--	--	--	--	--	--	3.00	556
8/22/2019	--	--	--	--	--	--	--	--	2.00	558
8/29/2019	105.78	103.79	1.99	3,715.05	--	--	--	--	4.00	562
8/30/2019	--	--	--	--	--	--	--	--	8.00	570
9/3/2019	--	--	--	--	--	--	--	--	24.0	594
9/6/2019	--	--	--	--	--	--	--	--	15.0	609
9/10/2019	104.95	104.08	0.87	3,714.94	--	--	--	--	0.00	609
9/12/2019	--	--	--	--	--	--	--	--	[4]	[4]
9/16/2019	--	--	--	--	--	--	--	--	35.0	644
9/20/2019	--	--	--	--	--	--	--	--	19.0	663
9/23/2019	--	--	--	--	--	--	--	--	21.0	684
9/27/2019	--	--	--	--	--	--	--	--	21.0	705
9/30/2019	--	--	--	--	--	--	--	--	17.0	722
10/3/2019	--	--	--	--	--	--	--	--	20.0	742
10/8/2019	--	--	--	--	--	--	--	--	30.0	772
10/10/2019	--	--	--	--	--	--	--	--	12.0	784

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Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
10/14/2019	--	--	--	--	--	--	--	--	19.0	803
10/17/2019	--	--	--	--	--	--	--	--	2.25	805
10/21/2019	--	--	--	--	--	--	--	--	0.00	805
10/24/2019	104.97	104.32	0.65	3,715.77	--	--	--	--	0.00	805
11/15/2019	--	--	--	--	--	--	--	--	0.00	805
11/18/2019	--	--	--	--	--	--	--	--	0.00	805
11/22/2019	--	--	--	--	--	--	--	--	2.00	807
11/25/2019	--	--	--	--	--	--	--	--	4.00	811
11/26/2019	--	--	--	--	--	--	--	--	0.00	811
12/2/2019	--	--	--	--	--	--	--	--	4.00	815
12/6/2019	--	--	--	--	--	--	--	--	3.00	818
12/10/2019	--	--	--	--	--	--	--	--	4.00	822
12/13/2109	--	--	--	--	--	--	--	--	(4)	(4)
12/20/2019	--	--	--	--	--	--	--	--	(4)	(4)
12/23/2019	--	--	--	--	--	--	--	--	12.0	834
12/26/2019	--	--	--	--	--	--	--	--	3.00	837
1/6/2020	--	--	--	--	--	--	--	--	12.00	849
1/10/2020	--	--	--	--	--	--	--	--	7.00	856
1/13/2020	--	--	--	--	--	--	--	--	1.50	858
1/15/2020	104.87	104.51	0.36	3,714.60	--	--	--	--	2.50	860
1/20/2020	--	--	--	--	--	--	--	--	3.00	863
1/31/2020	--	--	--	--	--	--	--	--	9.00	872
2/4/2020	--	--	--	--	--	--	--	--	3.00	875
2/6/2020	--	--	--	--	--	--	--	--	2.00	877
2/12/2020	--	--	--	--	--	--	--	--	4.50	882
2/14/2020	--	--	--	--	--	--	--	--	1.00	883
2/17/2020	--	--	--	--	--	--	--	--	3.00	886
2/21/2020	--	--	--	--	--	--	--	--	3.00	889
2/24/2020	--	--	--	--	--	--	--	--	2.50	891
2/28/2020	--	--	--	--	--	--	--	--	3.50	895
3/2/2020	--	--	--	--	--	--	--	--	1.50	896
3/6/2020	--	--	--	--	--	--	--	--	2.00	898
3/9/2020	--	--	--	--	--	--	--	--	3.00	901
3/13/2020	--	--	--	--	--	--	--	--	3.00	904
3/17/2020	--	--	--	--	--	--	--	--	3.00	907
3/20/2020	--	--	--	--	--	--	--	--	2.00	909
3/30/2020	--	--	--	--	--	--	--	--	8.00	917
4/2/2020	--	--	--	--	--	--	--	--	2.00	919
4/7/2020	--	--	--	--	--	--	--	--	3.00	922
4/9/2020	--	--	--	--	--	--	--	--	1.00	923
4/13/2020	--	--	--	--	--	--	--	--	2.00	925
4/16/2020	--	--	--	--	--	--	--	--	2.00	927
4/20/2020	--	--	--	--	--	--	--	--	6.00	933

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	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
4/24/2020	--	--	--	--	--	--	--	--	2.00	935
4/27/2020	--	--	--	--	--	--	--	--	3.00	938
5/1/2020	--	--	--	--	--	--	--	--	4.00	942
5/4/2020	--	--	--	--	--	--	--	--	3.00	945
5/8/2020	--	--	--	--	--	--	--	--	3.00	948
5/12/2020	--	--	--	--	--	--	--	--	4.00	952
5/15/2020	--	--	--	--	--	--	--	--	2.00	954
5/18/2020	--	--	--	--	--	--	--	--	4.00	958
5/22/2020	--	--	--	--	--	--	--	--	2.00	960
5/26/2020	--	--	--	--	--	--	--	--	3.00	963
5/29/2020	--	--	--	--	--	--	--	--	4.00	967
6/1/2020	--	--	--	--	--	--	--	--	2.00	969
6/5/2020	--	--	--	--	--	--	--	--	3.00	972
6/8/2020	--	--	--	--	--	--	--	--	2.00	974
6/15/2020	--	--	--	--	--	--	--	--	6.00	980
6/18/2020	107.28	104.41	2.87	3,714.28	--	--	--	--	3.00	983
6/23/2020	--	--	--	--	--	--	--	--	0.00	983
6/26/2020	--	--	--	--	--	--	--	--	1.00	984
6/29/2020	--	--	--	--	--	--	--	--	2.00	986
7/2/2020	--	--	--	--	--	--	--	--	3.00	989
7/7/2020	--	--	--	--	--	--	--	--	3.00	992
7/10/2020	--	--	--	--	--	--	--	--	2.00	994
7/13/2020	--	--	--	--	--	--	--	--	2.00	996
7/17/2020	--	--	--	--	--	--	--	--	(4)	(4)
7/20/2020	--	--	--	--	--	--	--	--	(4)	(4)
7/24/2020	--	--	--	--	--	--	--	--	(4)	(4)
7/27/2020	--	--	--	--	--	--	--	--	(4)	(4)
8/4/2020	--	--	--	--	--	--	--	--	(4)	(4)
8/11/2020	--	--	--	--	--	--	--	--	(4)	(4)
8/14/2020	--	--	--	--	--	--	--	--	(4)	(4)
8/17/2020	--	--	--	--	--	--	--	--	(4)	(4)
8/19/2020	109.32	104.43	4.89	3,713.92	--	--	--	--	(4)	(4)
8/24/2020	--	--	--	--	--	--	--	--	27.0	1,023
9/14/2020	--	--	--	--	--	--	--	--	26.0	1,049
9/23/2020	--	--	--	--	--	--	--	--	9.00	1,058
10/8/2020	108.59	105.09	3.50	3,713.49	--	--	--	--	27.0	1,085
10/12/2020	--	--	--	--	--	--	--	--	0.00	1,085
10/19/2020	--	--	--	--	--	--	--	--	5.00	1,090
10/26/2020	--	--	--	--	--	--	--	--	4.00	1,094
11/2/2020	--	--	--	--	--	--	--	--	4.00	1,098
11/10/2020	--	--	--	--	--	--	--	--	4.00	1,102
11/16/2020	--	--	--	--	--	--	--	--	6.00	1,108
11/24/2020	--	--	--	--	--	--	--	--	6.00	1,114

Appendix F - LNAPL Gauging and Recovery Results, Monitoring Well MW-31
HF Sinclair Navajo Refining LLC, GW-014, Lovington, New Mexico

Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
11/30/2020	--	--	--	--	--	--	--	--	2.00	1,116
12/7/2020	--	--	--	--	--	--	--	--	4.00	1,120
12/14/2020	--	--	--	--	--	--	--	--	6.00	1,126
12/21/2020	--	--	--	--	--	--	--	--	6.00	1,132
12/29/2020	--	--	--	--	--	--	--	--	5.00	1,137
1/4/2021	--	--	--	--	--	--	--	--	6.00	1,143
1/11/2021	--	--	--	--	--	--	--	--	4.00	1,147
1/18/2021	--	--	--	--	--	--	--	--	3.00	1,150
1/26/2021	--	--	--	--	--	--	--	--	5.00	1,155
1/28/2021	109.98	105.02	4.96	3,713.32	--	--	--	--	0.00	1,155
2/2/2021	--	--	--	--	--	--	--	--	9.00	1,164
2/8/2021	--	--	--	--	--	--	--	--	6.00	1,170
2/16/2021	--	--	--	--	--	--	--	--	[4]	[4]
2/22/2021	--	--	--	--	--	--	--	--	[4]	[4]
3/1/2021	--	--	--	--	--	--	--	--	7.00	1,177
3/9/2021	--	--	--	--	--	--	--	--	6.00	1,183
3/15/2021	--	--	--	--	--	--	--	--	6.00	1,189
3/22/2021	--	--	--	--	--	--	--	--	8.00	1,197
3/29/2021	--	--	--	--	--	--	--	--	7.00	1,204
4/5/2021	--	--	--	--	--	--	--	--	7.00	1,211
4/12/2021	--	--	--	--	--	--	--	--	7.00	1,218
4/15/2021	109.53	105.34	4.19	3,713.12	--	--	--	--	4.00	1,222
4/19/2021	--	--	--	--	--	--	--	--	4.00	1,226
4/26/2021	--	--	--	--	--	--	--	--	7.00	1,233
5/3/2021	--	--	--	--	--	--	--	--	7.00	1,240
5/10/2021	--	--	--	--	--	--	--	--	7.00	1,247
5/17/2021	--	--	--	--	--	--	--	--	7.00	1,254
5/24/2021	--	--	--	--	--	--	--	--	7.00	1,261
6/1/2021	--	--	--	--	--	--	--	--	6.00	1,267
6/8/2021	--	--	--	--	--	--	--	--	7.00	1,274
6/14/2021	--	--	--	--	--	--	--	--	5.00	1,279
6/21/2021	--	--	--	--	--	--	--	--	5.00	1,284
6/28/2021	--	--	--	--	--	--	--	--	6.00	1,290
7/6/2021	--	--	--	--	--	--	--	--	8.00	1,298
7/12/2021	--	--	--	--	--	--	--	--	8.00	1,306
7/15/2021	110.04	105.54	4.50	3,712.87	--	--	--	--	1.00	1,307
7/19/2021	--	--	--	--	--	--	--	--	2.00	1,309
7/26/2021	--	--	--	--	--	--	--	--	5.00	1,314
8/2/2021	--	--	--	--	--	--	--	--	9.00	1,323
8/10/2021	--	--	--	--	--	--	--	--	8.00	1,331
8/16/2021	--	--	--	--	--	--	--	--	[4]	[4]
8/24/2021	--	--	--	--	--	--	--	--	[4]	[4]
8/30/2021	--	--	--	--	--	--	--	--	2.00	1,333

Appendix F - LNAPL Gauging and Recovery Results, Monitoring Well MW-31
HF Sinclair Navajo Refining LLC, GW-014, Lovington, New Mexico

Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
9/8/2021	--	--	--	--	--	--	--	--	9.00	1,342
9/14/2021	--	--	--	--	--	--	--	--	7.00	1,349
9/16/2021	111.52	105.73	5.79	3,712.47	--	--	--	--	3.00	1,352
9/21/2021	--	--	--	--	--	--	--	--	4.00	1,356
9/28/2021	--	--	--	--	--	--	--	--	5.00	1,361
10/13/2021	--	--	--	--	--	--	--	--	7.00	1,368
10/19/2021	--	--	--	--	--	--	--	--	5.00	1,373
10/27/2021	--	--	--	--	--	--	--	--	7.00	1,380
11/2/2021	--	--	--	--	--	--	--	--	6.00	1,386
11/8/2021	--	--	--	--	--	--	--	--	6.00	1,392
11/16/2021	--	--	--	--	--	--	--	--	7.00	1,399
11/22/2021	--	--	--	--	--	--	--	--	7.00	1,406
11/30/2021	--	--	--	--	--	--	--	--	8.00	1,414
12/6/2021	--	--	--	--	--	--	--	--	6.00	1,420
12/14/2021	--	--	--	--	--	--	--	--	8.00	1,428
12/21/2021	--	--	--	--	--	--	--	--	7.00	1,435
12/28/2021	--	--	--	--	--	--	--	--	8.00	1,443
1/4/2022	--	--	--	--	--	--	--	--	8.00	1,451
1/11/2022	--	--	--	--	--	--	--	--	7.00	1,458
1/18/2022	--	--	--	--	--	--	--	--	3.00	1,461
1/20/2022	110.78	105.78	5.00	3,712.55	--	--	--	--	4.00	1,465
1/25/2022	--	--	--	--	--	--	--	--	6.00	1,471
2/1/2022	--	--	--	--	--	--	--	--	6.00	1,477
2/8/2022	--	--	--	--	--	--	--	--	8.00	1,485
2/15/2022	--	--	--	--	--	--	--	--	5.00	1,490
2/22/2022	--	--	--	--	--	--	--	--	7.00	1,497
3/1/2022	--	--	--	--	--	--	--	--	4.00	1,501
3/8/2022	--	--	--	--	--	--	--	--	0.00	1,501
3/15/2022	--	--	--	--	--	--	--	--	5.00	1,506
3/22/2022	--	--	--	--	--	--	--	--	5.00	1,511
3/29/2022	--	--	--	--	--	--	--	--	2.00	1,513
4/12/2022	--	--	--	--	--	--	--	--	3.00	1,516
4/14/2022	111.72	105.96	5.76	3,712.24	--	--	--	--	0.00	1,516
4/29/2022	--	--	--	--	--	--	--	--	4.00	1,520
5/3/2022	--	--	--	--	--	--	--	--	11.00	1,531
5/10/2022	--	--	--	--	--	--	--	--	0.00	1,531
5/17/2022	--	--	--	--	--	--	--	--	0.00	1,531
7/5/2022	--	--	--	--	--	--	--	--	5.00	1,536
7/12/2022	--	--	--	--	--	--	--	--	9.00	1,545
7/14/2022	110.04	106.24	3.80	3,712.29	--	--	--	--	0.00	1,545
7/19/2022	--	--	--	--	--	--	--	--	8.00	1,553
7/26/2022	--	--	--	--	--	--	--	--	5.00	1,558
8/2/2022	--	--	--	--	--	--	--	--	9.00	1,567

Appendix F - LNAPL Gauging and Recovery Results, Monitoring Well MW-31
HF Sinclair Navajo Refining LLC, GW-014, Lovington, New Mexico

Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
8/9/2022	--	--	--	--	--	--	--	--	4.00	1,571
8/16/2022	--	--	--	--	--	--	--	--	10.00	1,581
8/23/2022	--	--	--	--	--	--	--	--	10.00	1,591
8/30/2022	--	--	--	--	--	--	--	--	5.00	1,596
9/6/2022	--	--	--	--	--	--	--	--	0.00	1,596
9/13/2022	--	--	--	--	--	--	--	--	9.00	1,605
9/20/2022	--	--	--	--	--	--	--	--	6.00	1,611
9/27/2022	--	--	--	--	--	--	--	--	7.00	1,618
10/4/2022	--	--	--	--	--	--	--	--	8.00	1,626
10/11/2022	--	--	--	--	--	--	--	--	6.00	1,632
10/12/2022	112.32	106.41	5.91	3,811.77	--	--	--	--	1.00	1,633
10/18/2022	--	--	--	--	--	--	--	--	4.00	1,637
10/25/2022	--	--	--	--	--	--	--	--	7.00	1,644
11/1/2022	--	--	--	--	--	--	--	--	11.00	1,655
11/8/2022	--	--	--	--	--	--	--	--	8.00	1,663
11/15/2022	--	--	--	--	--	--	--	--	9.00	1,672
11/22/2022	--	--	--	--	--	--	--	--	10.00	1,682
11/29/2022	--	--	--	--	--	--	--	--	6.00	1,688
12/6/2022	--	--	--	--	--	--	--	--	11.00	1,699
12/13/2022	--	--	--	--	--	--	--	--	8.00	1,707
12/20/2022	--	--	--	--	--	--	--	--	5.00	1,712
12/29/2022	--	--	--	--	--	--	--	--	15.00	1,727
1/5/2023	--	--	--	--	--	--	--	--	9.00	1,736
1/12/2023	--	--	--	--	--	--	--	--	5.00	1,741
1/17/2023	--	--	--	--	--	--	--	--	6.00	1,747
1/25/2023	--	--	--	--	--	--	--	--	7.00	1,754
1/26/2023	111.06	105.87	5.19	3,712.43	--	--	--	--	2.00	1,756
1/31/2023	--	--	--	--	--	--	--	--	2.00	1,758
2/7/2023	--	--	--	--	--	--	--	--	6.00	1,764
2/16/2023	--	--	--	--	--	--	--	--	5.00	1,769
2/21/2023	--	--	--	--	--	--	--	--	1.00	1,770
2/28/2023	--	--	--	--	--	--	--	--	3.00	1,773
3/7/2023	--	--	--	--	--	--	--	--	2.00	1,775
3/14/2023	--	--	--	--	--	--	--	--	2.00	1,777
3/21/2023	--	--	--	--	--	--	--	--	3.00	1,780
3/23/2023	114.05	107.50	6.55	3,710.57	--	--	--	--	2.00	1,782
4/6/2023	--	--	--	--	--	--	--	--	10.00	1,792
4/13/2023	--	--	--	--	--	--	--	--	10.00	1,802
4/18/2023	--	--	--	--	--	--	--	--	4.00	1,806
4/25/2023	--	--	--	--	--	--	--	--	6.00	1,812
5/2/2023	--	--	--	--	--	--	--	--	5.00	1,817
5/9/2023	--	--	--	--	--	--	--	--	3.00	1,820
5/16/2023	--	--	--	--	--	--	--	--	2.00	1,822

Appendix F - LNAPL Gauging and Recovery Results, Monitoring Well MW-31
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Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
5/25/2023	--	--	--	--	--	--	--	--	12.00	1,834
5/30/2023	--	--	--	--	--	--	--	--	3.00	1,837
6/8/2023	--	--	--	--	--	--	--	--	5.00	1,842
6/13/2023	--	--	--	--	--	--	--	--	1.00	1,843
6/20/2023	--	--	--	--	--	--	--	--	3.00	1,846
6/20/2023	--	--	--	--	--	--	--	--	0.00	1,846
7/27/2023	110.81	108.24	2.57	3,710.50	--	--	--	--	0.00	1,846
8/1/2023	--	--	--	--	--	--	--	--	0.00	1,846
8/8/2023	--	--	--	--	--	--	--	--	2.00	1,848
8/15/2023	--	--	--	--	--	--	--	--	2.00	1,850
8/22/2023	--	--	--	--	--	--	--	--	2.00	1,852
8/31/2023	--	--	--	--	--	--	--	--	1.00	1,853
9/5/2023	--	--	--	--	--	--	--	--	0.00	1,853
9/20/2023	--	--	--	--	--	--	--	--	0.00	1,853
9/26/2023	--	--	--	--	--	--	--	--	0.00	1,853
10/5/2023	114.79	108.20	6.59	3,709.86	--	--	--	--	0.00	1,853
10/5/2023	--	--	--	--	--	--	--	--	1.00	1,854
10/11/2023	--	--	--	--	--	--	--	--	3.00	1,857
10/18/2023	--	--	--	--	--	--	--	--	0.00	1,857
10/24/2023	--	--	--	--	--	--	--	--	0.00	1,857
11/2/2023	--	--	--	--	--	--	--	--	3.00	1,860
11/6/2023	--	--	--	--	--	--	--	--	0.00	1,860
11/21/2023	--	--	--	--	--	--	--	--	0.00	1,860
11/28/2023	--	--	--	--	--	--	--	--	3.00	1,863
12/6/2023	--	--	--	--	--	--	--	--	8.00	1,871
12/11/2023	--	--	--	--	--	--	--	--	4.00	1,875
12/19/2023	--	--	--	--	--	--	--	--	7.00	1,882
1/3/2024	--	--	--	--	--	--	--	--	9.00	1,891
1/10/2024	--	--	--	--	--	--	--	--	5.00	1,896
1/16/2024	--	--	--	--	--	--	--	--	4.00	1,900
1/23/2024	--	--	--	--	--	--	--	--	0.00	1,900
1/25/2024	110.12	107.98	2.14	3,710.83	--	--	--	--	0.00	1,900
1/30/2024	--	--	--	--	--	--	--	--	5.00	1,905
2/6/2024	--	--	--	--	--	--	--	--	3.00	1,908
2/13/2024	--	--	--	--	--	--	--	--	5.00	1,913
2/20/2024	--	--	--	--	--	--	--	--	7.00	1,920
2/29/2024	--	--	--	--	--	--	--	--	7.00	1,927
3/5/2024	--	--	--	--	--	--	--	--	5.00	1,932
3/12/2024	--	--	--	--	--	--	--	--	5.00	1,937
3/19/2024	--	--	--	--	--	--	--	--	5.00	1,942
3/25/2024	--	--	--	--	--	--	--	--	0.00	1,942
4/4/2024	110.10	109.68	0.42	3,709.42	--	--	--	--	0.00	1,942
4/9/2024	--	--	--	--	--	--	--	--	7.00	1,949

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Date	Prior to Bailing or After Removing Skimmer[1,3]				After Bailing				LNAPL Volume Recovered (gal)	Cumulative LNAPL Recovered (gal)
	Initial Depth to Water (ft btoc)	Initial Depth to LNAPL (ft btoc)	Initial Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)	Final Depth to Water (ft btoc)	Final Depth to LNAPL (ft btoc)	Final Apparent LNAPL Thickness (feet)	Corrected Groundwater Elevation[2] (ft amsl)		
4/23/2024	--	--	--	--	--	--	--	--	3.00	1,952
4/30/2024	--	--	--	--	--	--	--	--	5.00	1,957
5/7/2024	--	--	--	--	--	--	--	--	5.00	1,962
5/13/2024	--	--	--	--	--	--	--	--	5.00	1,967
5/21/2024	--	--	--	--	--	--	--	--	7.00	1,974
5/28/2024	--	--	--	--	--	--	--	--	4.00	1,978
6/4/2024	--	--	--	--	--	--	--	--	2.00	1,980
6/11/2024	--	--	--	--	--	--	--	--	3.00	1,983
6/18/2024	--	--	--	--	--	--	--	--	4.00	1,987
7/2/2024	--	--	--	--	--	--	--	--	5.00	1,992
7/9/2024	--	--	--	--	--	--	--	--	5.00	1,997
7/15/2024	--	--	--	--	--	--	--	--	5.00	2,002
7/18/2024	110.39	110.37	0.02	3,708.80	--	--	--	--	1.00	2,003
7/22/2024	--	--	--	--	--	--	--	--	3.00	2,006
7/30/2024	--	--	--	--	--	--	--	--	5.00	2,011
8/6/2024	--	--	--	--	--	--	--	--	11.00	2,022
8/13/2024	--	--	--	--	--	--	--	--	(4)	(4)
8/20/2024	--	--	--	--	--	--	--	--	8.00	2,030
8/27/2024	--	--	--	--	--	--	--	--	1.00	2,031
9/3/2024	--	--	--	--	--	--	--	--	1.00	2,032
10/3/2024	112.78	110.52	2.26	3,708.27	--	--	--	--	2.00	2,034
10/8/2024	--	--	--	--	--	--	--	--	2.00	2,036
10/15/2024	--	--	--	--	--	--	--	--	5.00	2,041
10/22/2024	--	--	--	--	--	--	--	--	6.00	2,047
10/29/2024	--	--	--	--	--	--	--	--	3.00	2,050
11/5/2024	--	--	--	--	--	--	--	--	3.00	2,053
11/12/2024	--	--	--	--	--	--	--	--	4.00	2,057
11/19/2024	--	--	--	--	--	--	--	--	2.00	2,059
11/26/2024	--	--	--	--	--	--	--	--	2.00	2,061
12/3/2024	--	--	--	--	--	--	--	--	1.00	2,062
12/10/2024	--	--	--	--	--	--	--	--	1.00	2,063
12/17/2024	--	--	--	--	--	--	--	--	1.00	2,064
12/26/2024	--	--	--	--	--	--	--	--	1.00	2,065
12/30/2024	--	--	--	--	--	--	--	--	1.00	2,066

Notes:

LNAPL = Light Non-Aqueous Phase Liquid

ft btoc = feet below top of casing

ft amsl = feet above mean sea level

-- = not measured

(1) Passive skimmer (Petro-Bailer™) installed in well on August 17, 2017. Passive skimmer prohibits fluid gauging prior to removal from well.

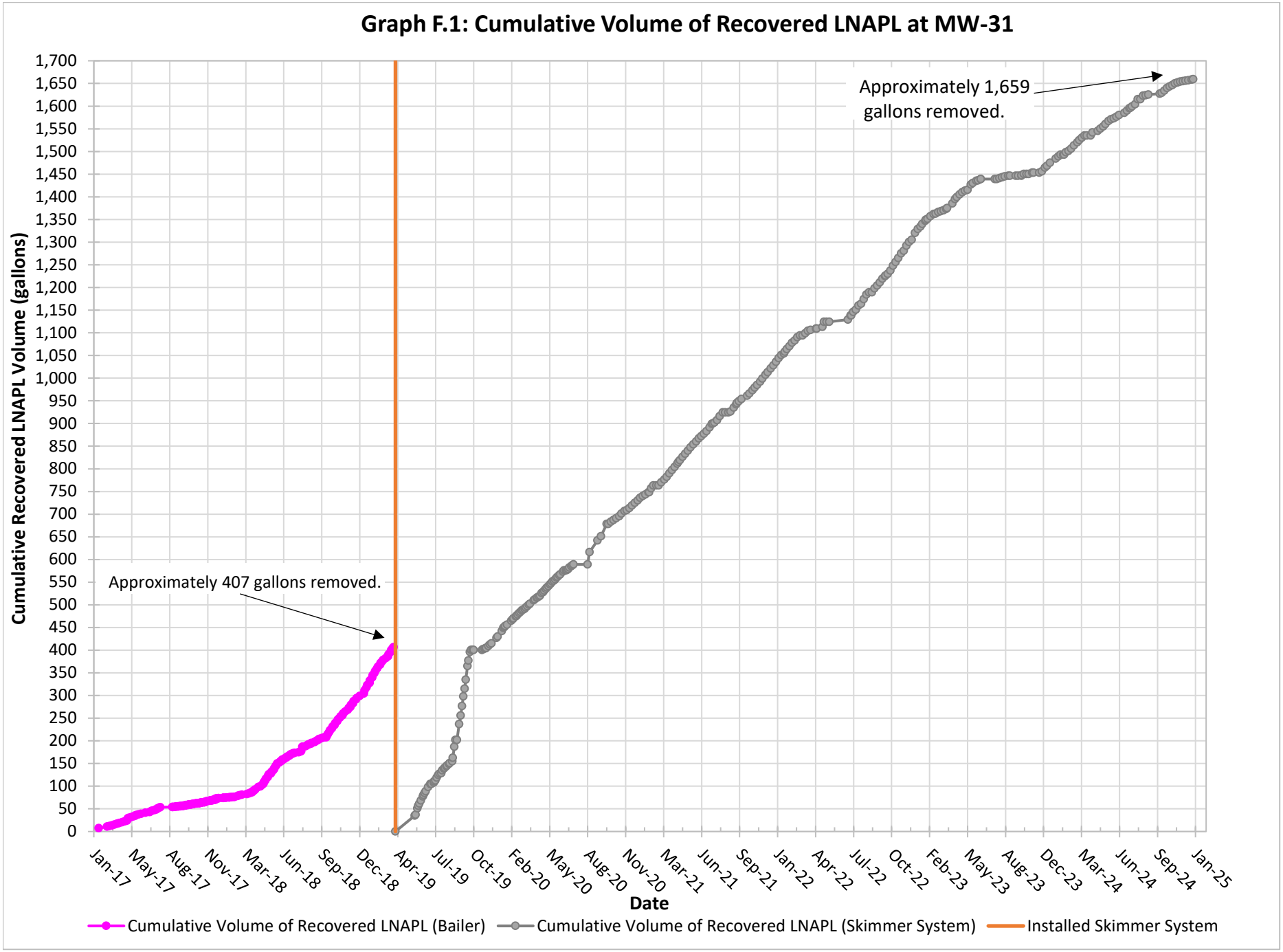
(2) Groundwater elevation corrected for the presence of LNAPL using a specific gravity of 0.8317. Top of well casing elevation = 3,819.17 feet amsl.

(3) Pneumatic skimmer pump system (Geotech SpOILer System) installed on April 1, 2019. Fluid gauging conducted after skimmer pump removed from well and well equilibrates.

(4) LNAPL volume recovered in tote too low to provide accurate estimate.

(5) Pneumatic skimmer pump system noted not operating from September 28, 2021, until October 8, 2021; from May 19, 2022, until June 29, 2022; from September 5 until October 5, 2023; periodically between October 18 until November 28, 2023; and from September 4, 2024, until October 3, 2024, when the system was off for repairs.

Graph F.1: Cumulative Volume of Recovered LNAPL at MW-31



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 451939
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
joel.stone	None	5/2/2025