NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)

ALBANY SITE
GROUNDWATER MONITORING REPORT
EVENT 46 – March 2023

Site Operations Services
Contract Number 89243320CFE000041.4.5.000001

For
U.S. Department of Energy
National Energy Technology Laboratory

Submitted

May 24, 2023

DISCLAIMER

This project was funded by the Department of Energy, National Energy Technology Laboratory, an agency of the United States Government, through a support contract with WE2. Neither the United States Government nor any agency thereof, nor any of their employees, nor WE2, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

Table of Contents

Executive Summary

1.0 Introduction 1
1.1 Project Scope and Objectives 1

2.0 Field and Analytical Procedures 3
2.1 Water Level Measurements 3
2.2 Groundwater Sampling 3
2.3 Laboratory Analysis 3
2.4 Data Review and Validation 3

3.0 Hydrogeological Assessment 4
3.1 Geology and Hydrology 4
3.1.1 Upper Silt Unit 4
3.1.2 Upper Clay Unit 4
3.1.3 Gravel Aquifer 4
3.1.4 Lower Silt/Clay Unit 5
3.2 August 2022 Groundwater Elevations and Flow Direction 5

4.0 Groundwater Quality Assessment 6
4.1 Volatile Organic Compounds 6
4.2 Metals 7
4.3 Water Quality Parameters 9
4.4 Contaminant Trends 9

5.0 References 12

List of Tables

Table 1. Monitoring Well Construction
Table 2. Groundwater Depth, Elevation, and Water Quality Measurements
Table 3. Current and Historical Groundwater Elevations
Table 4. Hydraulic Gradient Calculations
Table 5. Detection Summary
Table 6. Analytical Results for Detected Constituents – Volatile Organics
Table 7. Applicable Screening Criteria

List of Figures

Figure 1. Site Vicinity
Figure 2. Site Map
Figure 3. Groundwater Elevation Contours in the Perched Aquifer, March 2023
Figure 4. Groundwater Elevation Contours in the Gravel Aquifer, March 2023
Figure 5. Groundwater Analytical Results, March 2023
Figure 6. VOC Trend Charts
Figure 7. Concentration of Carbon Tetrachloride in the Gravel Aquifer, March 2023
Figure 8. Concentration of Chloroform in the Gravel Aquifer, March 2023
Figure 9. Concentration of Trichloroethene in the Gravel Aquifer, March 2023
Figure 10. Concentration of Tetrachloroethene in the Gravel Aquifer, March 2023
Figure 11. Concentration of Carbon Tetrachloride in the Perched Aquifer, March 2023
Figure 12. Concentration of Cis-1,2-DCE in the Gravel Aquifer, March 2023

List of Appendices

Appendix A. Monitoring Well Sampling Field Logs
Appendix B. Test America Laboratories Analytical Reports
Appendix C. Groundwater Analytical Results
Appendix D. Data Validation Memo

List of Acronyms

amsl	above mean sea level
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
DEQ	Department of Environmental Quality
DO	dissolved oxygen
DOE	United States Department of Energy
EPA	U.S. Environmental Protection Agency
GWMP	Groundwater Monitoring Plan
ICF	ICF International
MCL	maximum contaminant level
MML	maximum measurable level
mS/cm	milliSiemens per centimeter
mV	millivolts
NETL	National Energy Technology Laboratory
NGVD	National Geodetic Vertical Datum
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
PCE	tetrachloroethene
PRG	preliminary remediation goal
PVC	polyvinyl chloride
RBC	risk-based concentration
RSL	regional screening level
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
URS	URS Corporation
VOC	volatile organic compounds
µg/L	micrograms per liter
° C	degrees Celsius

Executive Summary

This report describes the March 2023 (Periodic Event 46) groundwater sampling and analysis activities performed by WE2 at the United States Department of Energy (DOE) National Energy Technology Laboratory (NETL) in Albany, Oregon (the Site). The March 2023 sampling event is the 46th round of groundwater samples collected from the NETL-Albany site since the initiation of the NETL-Albany groundwater monitoring program in 2002.

Groundwater levels were measured in thirty-five of the thirty-five monitoring wells and piezometers. The gauging data was used to create groundwater elevation contour maps for the two identified aquifers on site. Wells installed in the Perched Aquifer and deeper Gravel Aquifer zones provided spatial coverage to map the potentiometric surfaces of both aquifers as separate hydrogeologic units. Groundwater elevations from wells in the Perched Aquifer measured during the March 2023 event show a flow to the north in the northern portion of the site (from MW-10 toward MW-11), and to the south/southwest and to the east away from a potentiometric high near MW-10. In the Gravel Aquifer, groundwater elevation data shows a broad potentiometric high centered on monitoring wells MW-15, MW-16, and MW-25, from which flow is radially away in all directions.

Groundwater samples were collected from thirty-one of the thirty-three two-inch diameter monitoring wells between March 20 and 22, 2023. Two wells (MW-1 and MW-21) were not sampled because they are not optimally screened based on the current understanding of the Conceptual Site Model (USSE2, July 2019). Low-flow sampling protocols were followed at each well in accordance with the NETL-Albany Groundwater Monitoring Plan (GWMP, USSE2, January 2020). All groundwater samples were submitted for analysis of volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260D.

Six VOCs were detected during the March 2023 sampling event and are discussed in Section 4.1: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and naphthalene. All six of these VOCs were detected at concentrations that exceed Oregon Groundwater Maximum Measurement Levels (MMLs), Oregon Hot Spot tables, Oregon Risk-Based Concentrations (RBCs), EPA Regional Screening Levels (RSLs), or EPA Primary Maximum Contaminant Levels (MCLs).

Sixteen of the thirty-one samples were analyzed for metals with EPA Methods 200.7, 200.8, and 245.1. Nineteen metals — aluminum, antimony, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, thallium, vanadium, and zinc were detected during the March 2023 sampling event.

1.0 Introduction

This report describes the March 2023 (Periodic Event 46) groundwater sampling and analysis performed by WE2 at the DOE NETL site in Albany, Oregon (Figure 1). The sampling was conducted in accordance with the Groundwater Monitoring Plan Revision 14, for National Energy Technology Laboratory, Albany, Oregon (USSE2, January 2020) and the National Energy Technology Laboratory, Albany Groundwater Sampling Event 46 Work Plan Memo (February 2023).

The NETL-Albany groundwater monitoring program was initiated in 2001, as was then required by DOE Order 5400.1, *General Environmental Protection Program*. The sampling has not been mandated by any other regulatory requirement or consent order. These monitoring requirements have since been incorporated into DOE Order 436.1, *Departmental Sustainability*.

1.1 Project Scope and Objectives

The objective of the NETL-Albany groundwater monitoring program is to perform a site-wide and a limited off-site evaluation of groundwater conditions to determine the presence and extent of groundwater contamination. The NETL-Albany groundwater monitoring program is designed to:

- Obtain data for the purpose of determining baseline conditions of groundwater quality and quantity;
- Demonstrate compliance with and implementation of all applicable regulations and DOE Orders;
- Provide data to permit the early detection of groundwater pollution or contamination;
- Provide a reporting mechanism for detected groundwater pollution or contamination;
- Identify existing and potential groundwater contamination sources and maintain surveillance of these sources;
- Provide data upon which decisions can be made concerning facility operations (including land, buildings and equipment), management and protection of groundwater resources and future remedial activities.

The March 2023 sampling event is the forty-sixth round of groundwater sampling conducted at the Site under the general program that was developed in 2001. The following table lists previous sampling events:

Event 1	July 2002	Event 23	March 2011
Event 2	November/December 2002	Event 24	August/September 2011
Event 3	February/March 2003	Event 25	March 2012
Event 4	May 2003	Event 26	August 2012
Event 5	August 2003	Event 27	March 2013
Event 6	November 2003	Event 28	August 2013
Event 7	February 2004	Event 29	February 2014
Event 8	May 2004	Event 30	August 2014
Event 9	October 2004	Event 31	March 2015
Event 10	February 2005	Event 32	August 2015
Event 11	September 2005	Event 33	April 2016
Event 12	February 2006	Event 34	September 2016
Event 13	October 2006	Event 35	April 2017
Event 14	March 2007	Event 36	August 2017
Event 15	June 2007	Event 37	March 2018
Event 16	October 2007	Event 38	August 2018
Event 17	March 2008	Event 39	March 2019
Event 18	October 2008	Event 40	August 2019
Event 19	March 2009	Event 41	March 2020
Event 20	September 2009	Event 42	March 2021
Event 21	March 2010	Event 43	August 2021
Event 22	August 2010	Event 44	March 2022

Event 45	August 2022		
Event 46	March 2023		

The groundwater data generated during these previous sampling events are discussed in detail in their respective periodic groundwater monitoring reports produced by ICF International (ICF, through Event 22), URS (a legacy AECOM company, Event 23 through Event 32), and AECOM/Amentum (with USSE2/WE2, Event 33 through Event 46). Historical data are also summarized in the latest version of the GWMP (USSE2, January 2020). Historical data are incorporated into this report in the form of contaminant concentration trend graphs (Figure 6).

A detailed description of the Site, including the site location, physical structures, and site history, is provided in the GWMP.

2.0 Field and Analytical Procedures

This section summarizes the field and analytical procedures conducted by WE2 during the March 2023 groundwater sampling event. Activities included the sampling and analysis of groundwater and the measurement of depth to groundwater. Field and analytical procedures were conducted in accordance with the GWMP. The monitoring well locations are shown in Figure 2.

2.1 Water Level Measurements

Groundwater depths were recorded at thirty-five of the thirty-five monitoring wells and piezometers on site (thirty-three two-inch diameter wells and two one-inch piezometers). Depth to water was measured to the nearest one-hundredth of a foot from the surveyed reference point on the polyvinyl chloride (PVC) well riser using an electronic hand-held water-level meter. The water-level data was used to calculate groundwater elevations and flow gradients that are discussed in Section 3.2 and to develop the contour maps presented in Figures 3 and 4. Table 1 shows the well construction details, and Table 2 and Table 3 show the depth to groundwater and groundwater elevations from Event 46.

2.2 Groundwater Sampling

Groundwater samples were collected between March 20 and 22, 2023 from thirty-one of thirty-three monitoring wells located at NETL-Albany and Liberty Elementary School. Two wells (MW-1 and MW-21) are not sampled because they are screened in the upper part of the Gravel Aquifer, where they do not monitor maximum concentrations of contaminants, and other adjacent wells (i.e., MW-22 and MW-23) are better suited to indicate concentrations at those depths and locations.

Samples were collected using low-flow sampling methods in accordance with the GWMP. Water quality measurements including temperature, pH, specific conductivity, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) were recorded every 3-5 minutes during purging of monitoring wells using a multi-parameter water quality meter with flow-through cell. Groundwater samples were collected following the stabilization of water-quality parameters. Final water quality readings were recorded and are shown in Table 2. Sampling field logs are provided in Appendix A.

2.3 Laboratory Analysis

The thirty-one primary groundwater samples were analyzed for VOCs by EPA Method 8260D. Sixteen of the thirty-one samples were analyzed for metals with EPA Methods 200.7, 200.8, and 245.1.

Two field duplicates samples were collected during the event, one set each from wells MW-3 and MW-20. Laboratory analysis procedures and methods were performed as described in the GWMP.

The complete laboratory analytical reports are presented in Appendix B and the analytical results for groundwater are tabulated in Appendix C. In addition, the groundwater purge water was analyzed and determined to be non-hazardous. The purge water laboratory report is also contained in Appendix B. The purge water will be disposed through the industrial wastewater system in accordance with the site's industrial wastewater permit.

2.4 Data Review and Validation

Data validation was performed on groundwater analytical results in accordance with the updated GWMP. The data validation included review of sample documentation, preservation and holding times, blank data, recovery data for laboratory control samples, and precision of duplicate results.

Twenty-six of thirty-three samples were processed after hold time and were qualified with H. Trip blanks were submitted but no analysis was reported. Four analytes were detected in trace quantities in the method blanks between two analytical batches. No method blank hits exceeded the reporting limits. Three of the analytes detected in the method blanks were not found in the samples. Naphthalene was found in the method blanks, but not in any samples associated with that batch.

With the additional data qualifications from the validation process, the sample results are considered valid for continued characterization of the Site groundwater contamination. The data validation memorandum is included in Appendix D.

3.0 Hydrogeological Assessment

The following sections summarize the hydrostratigraphy as first described by ICF and refined by AECOM. Section 3.2 describes groundwater flow directions for Event 46.

3.1 Geology and Hydrology

Several distinct geologic units have been identified at the site. The geologic and hydrogeologic characteristics of each unit are summarized below.

3.1.1 Upper Silt Unit

The Upper Silt Unit is present from the ground surface to a depth of approximately 15 feet below ground surface (bgs) and is predominantly silt and silty sand with laterally discontinuous clay lenses and thin water-bearing sands. It contacts the underlying Upper Clay Unit across most of the site. The Upper Silt Unit is subject to non-uniform surface water infiltration that can become locally perched on discontinuous clay lenses and saturate discontinuous sand lenses. These conditions contribute to a non-uniform saturation and heterogeneous groundwater elevations and groundwater flow throughout the unit referred to as the Perched Aquifer.

3.1.2 Upper Clay Unit

The Upper Clay Unit is a laterally discontinuous, dense, dry clay with a maximum thickness of approximately 10 feet. The Upper Clay Unit, when encountered, is located between the Upper Silt Unit and the underlying Gravel Aquifer at a depth of approximately 12 to 18 feet bgs. The current understanding of the lateral extent of the clay shows it as an inverted “T” shaped structure; however, it is important to note that the western extent of the clay has not been evaluated. In some areas, the clay grades into soft, brown, moist, silty clay for about 10 feet from the mapped edge of the dense, hard, dry clay. The soft brown clay may represent some relatively narrow transitional facies at the edge of the Upper Clay Unit.

The Upper Clay Unit is a localized aquitard and groundwater perches on it in some portions of the Site. The approximate extents of the Perched Aquifer were determined by ICF, refined by AECOM/USSE2, and are shown in Figure 3. Some borings that have penetrated the Upper Clay Unit have encountered an approximately 5-foot-thick zone of dry sediments composed of the underlying Gravel Aquifer, suggesting the Upper Clay Unit (where present) prevents vertical movement of water through the clay and into the Gravel Aquifer. Flow of the perched groundwater (where present) appears to be controlled in part by the surface topography of the clay. With water infiltration being significantly less during the dry season, there are variable flow patterns in the Perched Aquifer, with flow generally somewhat radial due to local mounding around well MW-10. Groundwater flow in the southern part of the Site appears to consistently be to the south/southwest regardless of season.

3.1.3 Gravel Aquifer

The Gravel Aquifer is present from a depth of approximately 15 feet bgs to approximately 35 feet bgs and consists of gravelly sands and clayey/silty gravels which are saturated in most portions of the Site. Investigations indicate a change in lithology of the Gravel Aquifer in the northeast portion of the Site. The typical lithology of the Gravel Aquifer transitions to a predominant dark gray, poorly graded sand with little or no gravel or fines in the northeast portion of the Site. This same unit was observed in several borings in the northwestern part of Liberty Elementary School near the ball fields. Groundwater elevation data and geologic data obtained during site assessments suggest that stratigraphic variations in the overlying Upper Silt Unit may cause local confining conditions in the Gravel Aquifer; therefore, the Gravel Aquifer is considered to be semi-confined. Where the Upper Clay is absent, the Upper Silt Unit

directly overlies the Gravel Aquifer and forms a continuous semi-confined aquifer. Locally, the upper portion of the Gravel Aquifer immediately below the Upper Clay has been found to be only partially saturated.

Groundwater flow in the Gravel Aquifer is variable across the Site. The gradient in the central portion of the Site is very flat, and groundwater elevations decrease to the north and south, indicating a flow direction away from the center portion of the Site with a slight east-southeast trend below Liberty Elementary School. In the southern part of the Site the groundwater gradient is generally to the southwest, and in the northern part of the Site the gradient is toward the northwest or northeast depending on the season. Water levels in wells screened across both the Upper Silt Unit and Gravel Aquifer (MW-1, MW-3, MW-5, MW-6, and MW-14) are consistent with water levels in the Gravel Aquifer. The majority of the seventeen wells installed on site since February 2005, and the four off-site wells installed in September 2006 were constructed such that the screened interval only penetrates the deep Gravel Aquifer and does not intercept the Upper Silt Unit. This was later confirmed based on contaminants of potential concerns identified in the earlier sampling events of the site's original wells.

3.1.4 Lower Silt/Clay Unit

The Lower Silt/Clay Unit includes two stratigraphic units (Siltstone and Blue Clay) that underlie the Gravel Aquifer. In general, the Blue Clay underlies the Siltstone Unit; however, in portions of the Site, the Siltstone Unit is not present, and the Gravel Aquifer directly overlies the Blue Clay. The Lower Silt/Clay Unit is an aquitard that restricts the vertical movement of water. The surface of the Lower Silt/Clay Unit in the southwestern portion of the Site dips steeply to the southwest. The surface of the Lower Silt/Clay Unit in the eastern portion of the Site and at Liberty Elementary School dips to the east/northeast. In the northwest part of the Site the Lower Silt Clay dips to the northwest.

3.2 March 2023 Groundwater Elevations and Flow Direction

Groundwater levels were measured in the thirty-five existing wells and piezometers in March 2023. Groundwater depths ranged from 1.09 feet bgs at MW-7 to 18.92 feet bgs at MW-1. Groundwater elevations ranged from 207.13 feet above mean sea level (amsl) at MW-6 to 223.63 feet amsl at MW-10. Event 46 and historical groundwater elevation data are provided in Table 3. Note that all groundwater elevations are referenced to National Geodetic Vertical Datum (NGVD), 1947.

The wet winters and dry summers result in seasonal variability in groundwater elevations at the Site. The groundwater elevations reflect the low precipitation during the dry season (between July and September) as compared to much higher amounts during the wet season (between November and May).

The average March 2023 groundwater elevation (212.20 feet) was 4.81 feet higher than the average elevation during the previous dry season (August 2022, 207.39 feet) and 0.01 feet lower than the previous wet season (March 2021, 212.21 feet).

Figures 3 and 4 show the groundwater elevation contours for the Perched Aquifer and Gravel Aquifer, respectively, for the March 2023 groundwater level measurements. Groundwater elevations from wells screened in the Gravel Aquifer were used to construct a potentiometric map of the Gravel Aquifer. Selected wells screened across both the Upper Silt and Gravel Aquifer zones are included in groundwater contouring because screens in these wells penetrate well into the Gravel Aquifer and appear to be representative of the Gravel Aquifer. These wells are generally located at the perimeter of the site.

Groundwater elevations from wells in the Perched Aquifer (Figure 3) measured during the March 2023 Groundwater event show a flow to the north in the northern portion of the site (from MW-10 to MW-11), and to the south/southwest and to the east away from a potentiometric high near MW-10. The steepest gradient is between wells MW-28 and MW-13 (4.57 feet) toward the southwest.

In the Gravel Aquifer, groundwater elevation data shows a potentiometric high centered on monitoring well MW-15 from which flow is radially away in all directions. The steepest flow gradient is from this high toward wells MW-6 and MW-30 at the south end of the site (Figure 4). The gradient in the gravel aquifer is relatively flat across the main part of the site and under the Liberty Elementary School property. Table 4 shows hydraulic gradient calculations.

4.0 Groundwater Quality Assessment

This section summarizes the results of the chemical analyses performed on groundwater samples collected during the March 2023 sampling event. Groundwater samples from thirty-one monitoring wells were analyzed for VOCs. Table 5 summarizes the March 2023 groundwater analytical results for detected constituents including the minimum applicable screening criteria, the frequency of detection, the frequency of detections exceeding screening criteria, the minimum and maximum concentrations, and the location of the maximum concentration. Table 6 lists groundwater analytical results for any detected volatile organic chemicals. Detections found to be unusable in data validation are not listed in Table 6. Appendix B includes the Eurofins TestAmerica Laboratories Analytical Reports and Appendix C summarizes all reported groundwater lab data of volatile organics. Appendix D contains the data validation document.

Table 7 lists federal and state groundwater quality standards and criteria for VOCs. The table includes Oregon Groundwater MMLs as defined in Oregon Administrative Rule (OAR) 340-040-0020 (Groundwater Quality Protection). The MMLs are the maximum measurable concentrations of the chemicals in groundwater established by the State of Oregon. From OAR 340-040-020: "They will be used by the Department and the public to evaluate the significance of a particular contaminant concentration and will trigger necessary regulatory action. These levels should not be construed as acceptable groundwater quality goals because it is the policy of the EQC (OAR 340-041-0026(1)(a)) to maintain and preserve the highest possible water quality." From OAR 340-040-100: "The maximum measurable levels established by these rules are not designed to be used as drinking water standards or as clean-up standards for remedial actions, but to initiate the process of designating groundwater management areas where necessary to preserve groundwater quality".

The MCLs are the levels established by the EPA that cannot be exceeded by a public water supply system. Oregon and EPA have also established risk-based criteria for screening purposes. The Oregon Hotspot values are screening values that are a combination of promulgated criteria and guidance values used by the state to prioritize groundwater cleanups. The EPA RSL values were calculated using the latest toxicity values, default exposure assumptions, and physical and chemical properties. The EPA RSL values incorporate the EPA Region III RBC Table, Region VI human health medium-specific screening levels table, and the Region IX Preliminary Remediation Goal (PRG) Table, and was last updated in November 2017. The Oregon DEQ RBC values are similar to the EPA RSLs but use Oregon-specific parameters to calculate risk. Oregon DEQ Petroleum RBCs were updated November 2015. Minimum criteria values used in this report reflect up to date EPA RSLs and Oregon DEQ RBCs.

The March 2023 groundwater data are compared to the lowest screening criteria for each analyte and are discussed in the following sections. Any result annotated with a "U" qualifier (in either the tables or appendices) or reported "ND" in the lab report signifies that the chemical was not detected above the method detection limit. Any result annotated with a "J" qualifier is an estimate, since the value is below the method reporting limit but above the method detection limit.

Laboratory method detection limits for VOCs may be greater than the minimum applicable screening criteria. Therefore, while these compounds were not detected above the method detection limits, they may still be present above screening criteria.

4.1 Volatile Organic Compounds

Six VOCs were detected during the March 2023 sampling event: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and naphthalene. All six of these VOCs were detected at concentrations that exceed Oregon Groundwater Maximum Measurement Levels (MMLs), Oregon Hot Spot tables, Oregon Risk-Based Concentrations (RBCs), EPA Regional Screening Levels (RSLs), or EPA Primary Maximum Contaminant Levels (MCLs). Table 5 summarizes the detections and Table 6 contains all of the analytical results for the detected volatile organics.

The current and historical concentrations of five common VOCs (carbon tetrachloride, chloroform, cis-1,2-DCE, PCE, and TCE) are presented graphically in Figure 6.

Carbon Tetrachloride. Carbon tetrachloride was detected in seven of the thirty-one wells sampled during the March 2023 sampling event at concentrations ranging from 1.1 (H) µg/L at MW-23 to 840 (H) µg/L at MW-20. All the detections of carbon tetrachloride exceeded the minimum groundwater criteria, which is the Oregon DEQ RBC of

0.41 µg/L. In addition, all the detections exceed the EPA RSL of 0.43 µg/L. Six of the detections exceed the EPA Primary Drinking Water Standard, the Oregon Hot Spot Value and the Oregon Groundwater MMLs of 5 µg/L. Carbon tetrachloride is a solvent that was historically used in degreasing and other industrial applications.

Chloroform. Chloroform was detected in nine of the thirty-one wells sampled during the March 2023 sampling event at concentrations ranging from 0.99 (J H) µg/L at MW-5 to 140 µg/L at MW-20. All the detections of chloroform exceeded the minimum groundwater criteria for the site which is the Oregon DEQ RBC of 0.19 µg/L. In addition, all of the detected concentrations exceeded the EPA RSL of 0.22 µg/L, one of the detections exceeded the EPA Primary Drinking Water Standard and the Oregon Hot Spot Value of 80 µg/L and the Oregon Groundwater MMLs of 100 µg/L. Chloroform is formed as a byproduct when chlorine is added to the water supply system and is also a breakdown product of the anaerobic degradation of carbon tetrachloride.

Cis-1,2-Dichloroethene (cis-1,2-DCE). Cis-1,2-DCE was detected in six of the thirty-one wells sampled during the March 2023 sampling event at concentrations ranging from 0.35 (J) µg/L at MW-102 to 6.0 (H) µg/L at MW-30. One of the detections exceeded the minimum screening criteria, which is the EPA RSL of 3.6 µg/L. Cis-1,2-DCE is a breakdown product of the anaerobic degradation of TCE.

Tetrachloroethene (PCE). PCE was detected in five of the thirty-one wells sampled during the March 2023 sampling event at concentrations ranging from 0.47 (J H) µg/L at MW-24 to 9.3 µg/L at MW-20. One of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 4.1 µg/L. In addition, one of the concentrations exceed the EPA Primary Drinking Water Standard and Oregon Hot Spot Value of 5 µg/L. Tetrachloroethene is used for metal cleaning.

Trichloroethene (TCE). TCE was detected in nine of the thirty-one wells sampled during the March 2023 sampling event at concentrations ranging from 0.81 (J H) µg/L at MW-23 to 170 µg/L at MW-20. All the detections of TCE exceeded the minimum groundwater criteria, which is the EPA RSL of 0.28 µg/L. In addition, all the detections exceed the Oregon DEQ RBC of 0.43 µg/L and seven of the detections exceed the Oregon MML, the Oregon Hot Spot Value and EPA Primary Drinking Water Standard of 5 µg/L. TCE is an industrial solvent used in degreasing and other industrial applications.

Naphthalene. Naphthalene was detected in one of the thirty-one wells (MW-4) during the March 2023 sampling event at a concentration of 1.9 (J H) µg/L. This detection of naphthalene exceeded the minimum groundwater criteria of the Oregon DEQ RBC of 0.14 µg/L. In addition, the detected concentration exceeded the EPA RSL of 0.17 µg/L. Naphthalene is used mainly as an intermediate in the synthesis of organic chemicals, most naphthalene is derived from coal tar.

4.2 Metals

Nineteen metals — aluminum, antimony, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, thallium, vanadium, and zinc were detected during the March 2023 sampling event.

Aluminum. Aluminum was detected in 11 of the 14 wells sampled during the March 2023 sampling event. The highest detection was at a concentration of 2.4 mg/L at MW-22. All eleven wells exceeded the EPA Secondary Drinking Water Standard of 0.05 mg/L.

Antimony. Antimony was detected in 2 of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.00018 J mg/L at MW-3. None of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 0.001 mg/L.

Arsenic. Arsenic was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.13 mg/L at MW-16. All detections exceeded the minimum groundwater criteria, which is the Oregon DEQ RBC of 0.000038 mg/L.

Barium. Barium was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.12 mg/L at MW-16. None of the detections exceeded the minimum screening criteria, which is the EPA RSL of 0.38 mg/L.

Cadmium. Cadmium was detected in 2 of 14 wells sampled during the March 2023 event. The highest was detected at a concentration of 0.000046 J mg/L at MW-13. None of the detections exceeded the minimum screening criteria, which is the EPA RSL of 0.0009 mg/L.

Calcium. Calcium was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 38 mg/L at both MW-16 and MW-4. Screening criteria does not exist for calcium.

Chromium. Chromium was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.013 mg/L at MW-16. The detected concentrations exceeded the minimum groundwater criteria, which is the EPA RSL of 0.00035 mg/L, in 13 wells.

Cobalt. Cobalt was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.012 mg/L at MW-22. Six of these detections exceed the minimum groundwater criteria, which is the EPA RSL of 0.0006 mg/L.

Copper. Copper was detected in 9 of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.0035 mg/L at MW-24. None of the detections exceed the minimum groundwater criteria, which is the EPA RSL of 0.08 mg/L.

Iron. Iron was detected in 13 of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 71 mg/L at MW-16. Eleven of the detected concentrations exceed the minimum groundwater criteria, which is the Oregon MML, the Oregon Hot Spot Value and the EPA Secondary Drinking Water Standard of 0.3 mg/L.

Lead. Lead was detected in 13 of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.00077 J mg/L at MW-22. None of the detections exceeded the minimum groundwater criteria of 0.015 mg/L, the EPA Primary Drinking Water MCL.

Magnesium. Magnesium was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 19 mg/L at MW-4. Screening criteria does not exist for magnesium.

Manganese. Manganese was detected in all of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 2.8 mg/L at MW-20. Seven of the detected concentrations exceed the minimum groundwater criteria, which is the EPA RSL of 0.043 mg/L.

Nickel. Nickel was detected in all of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.0083 mg/L at MW-16. None of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 0.22 mg/L.

Potassium. Potassium was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 1.3 J mg/L at MW-16. Screening criteria does not exist for potassium.

Sodium. Sodium was detected in all 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 25 mg/L at MW-22. Screening criteria does not exist for sodium.

Thallium. Thallium was detected in 2 of 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.000043 J at MW-3. Two of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 0.00002 mg/L.

Vanadium. Vanadium was detected in all of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.019 mg/L at MW-22. Five of the detected concentrations exceed the minimum groundwater criteria, which is the EPA RSL of 0.0086 mg/L.

Zinc. Zinc was detected in 12 of the 14 wells sampled during the March 2023 sampling event. The highest was detected at a concentration of 0.0073 mg/L at MW-16. None exceeded the minimum groundwater criteria, which is the EPA RSL of 0.6 mg/L.

4.3 Water Quality Parameters

Table 2 summarizes field parameters recorded at each of the thirty-one wells, including pH, conductivity, turbidity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP).

In March 2023:

- Temperatures ranged from 11.0 degrees Celsius (°C) at MW-16 to 16.04 °C at MW-18.
- DO ranged from 0.00 at MW-30 to 8.06 at MW-23.
- pH ranged from 7.06 s.u. at MW-26 to 8.51 s.u. at MW-8.
- Conductivity ranged from 0.191 milli Siemens per centimeter (mS/cm) at MW-6 to 1.632 mS/cm at MW-100.
- ORP ranged from -695.8 millivolts (mV) at MW-6 to 213 mV at MW-19.
- All thirty-one wells sampled had measurable turbidity once readings stabilized. The measurable turbidity ranged from 8.0 nephelometric turbidity units (NTUs) at MW-17, MW-25, and MW-29, to 26.0 NTUs at MW-23.

4.4 Contaminant Trends

Several important trends in the VOC concentrations were noted at sixteen locations: MW-5, MW-14, MW-15, MW-17, MW-18, MW-20, MW-22, MW-23, MW-24, MW-27, MW-28, MW-30, MW-100, MW-101, MW-102 and MW-103. Trend plots (Figure 6) support the discussion below.

- *MW*-5. Concentrations of chloroform continue to fluctuate seasonally with higher concentrations reported during the dry season. The March 2023 value of 0.99 J H µg/l was below that of March 2022 (1.10 µg/L) and well below the previous high recorded in August 2017 of 4.8 µg/l.
- *MW-14.* Concentrations of chloroform had been on an overall downward trend since a high of 12 µg/L in April 2016, however, the August 2021 concentration of 11 ug/l was a sharp increase. The March 2023 value of 5.1 H ug/l is very close to the 5.2 ug/l from August 2022. Carbon tetrachloride remained non-detected since the 0.40 J µg/L in March 2020. Concentrations of cis-1,2-DCE, TCE, and PCE remain non-detected during the March 2023 sampling event.
- *MW-15.* Concentrations of TCE continued to decrease after an all-time high of 3,100 µg/L in March 2019. The March 2023 results showed non detect for all VOCs.
- *MW-17.* After a sharp decrease from 44 µg/L in August 2021 to 8.3 H µg/L in March 2022, TCE rebounded to 31 (B J+) µg/L in August 2022, then dropped to non-detect in March 2023. The March 2023 results showed non detect for all VOCs. Carbon tetrachloride concentrations have shown a downward trend since August 2014. Chloroform remains non-detect after low level detections in the two of the three previous sampling events.
- *MW-18.* The four primary VOCs (carbon tetrachloride, chloroform, TCE, and PCE) have a sharp decrease from the August 2022 event but remain higher than at the March 2022 event. Record low concentrations of carbon tetrachloride, TCE, chloroform, and PCE were detected in March 2022. This event set the new record low for chloroform and PCE.
- *MW-20.* Concentrations of carbon tetrachloride (840 H µg/L), chloroform (140 µg/L), PCE (9.3 µg/L), and TCE 170 µg/L) fluctuate seasonally and were comparable to previous values. Carbon tetrachloride, chloroform, DCE, TCE, and PCE are all generally decreasing from their March 2021 highs. The exception is the August 2022 non-detect for carbon tetrachloride. Carbon Tetrachloride values have been over 500 µg/L since March 2009, the August 2022 non-detect is an outlier to the data trend.

- *MW-22.* All five contaminants continue long-term decreases. Carbon tetrachloride (7.0 H µg/L), chloroform (1.9 H µg/L), TCE (4.9 H µg/L), and PCE (0.59 J H µg/L) are lower than or equal to concentrations in March 2022, but slightly elevated from August 2022.
- *MW-23.* Carbon tetrachloride (1.1 H µg/L) and TCE (0.81 J H µg/L) concentrations continue an overall downward trend that started in 2012. Chloroform (3.1 H µg/L) has increased gradually since 2014 and exhibits seasonal variations with lower values in the dry season. Cis-1,2-DCE and PCE remain at non-detected concentrations.
- *MW-24.* Concentrations of carbon tetrachloride (160 H µg/L), chloroform (19 H µg/L), and TCE (63 H µg/L) are lower than their August 2021 record levels and very close to the previous values in August 2022. Cis-1,2-DCE remained at non-detected concentrations. PCE (0.47 J H µg/L) declined from August 2022 (0.57 µg/L) after a sharp spike of 8.5 (J H) µg/L in March 2022. All four have been generally increasing since 2007.
- *MW*-27. Carbon tetrachloride (49 H µg/L) and chloroform (14 H µg/L) continue an overall trend of declining concentrations that began in 2012. TCE, cis-1,2-DCE, and PCE remain non-detect.
- *MW-28*. After chloroform was detected for the first time ever at 1.2 (H) µg/L in March 2022, all contaminants were non-detect.
- *MW*-30. The concentration of cis-1,2-DCE of 6.0 µg/L in March 2023 continues an overall downward trend since 2012. Carbon tetrachloride, chloroform, PCE, and TCE remain non-detected.
- *MW-100.* TCE (4.6 µg/L) continues to show strong seasonality with higher concentrations in the dry season.
- *MW-101*. TCE was detected at 2.7 µg/l in March 2023 a slight increase from the previous events. This continues a strong overall upward trend since August 2017. Concentrations of carbon tetrachloride, chloroform, cis-1,2-DCE, and PCE remain non-detected.
- *MW-102*. The concentration of TCE of 26 µg/L in March 2023 is a steep spike from the previous two years. Cis-1,2-DCE was detected at 0.35 µg/L after being non-detect for the last two years. Carbon tetrachloride, chloroform, and PCE were non-detected.
- *MW*-103. All results have been non-detect since 2014 with the exception of one trace detection each of Carbon Tetrachloride in 2020 and TCE in 2021.

Results from Event 46 groundwater sampling were used to evaluate the extent and stability of the primary constituents of concern. Primary constituents of concern are VOCs, including carbon tetrachloride, chloroform, TCE, cis-1,2-DCE and PCE. Concentration data are presented in isopleth maps for carbon tetrachloride, chloroform, TCE, and PCE in the Gravel Aquifer (Figure 7 through Figure 10). The concentrations of carbon tetrachloride in the Perched Aquifer are presented in Figure 11 for this sampling event. The concentrations of cis-1,2-DCE in the Gravel Aquifer is presented in Figure 12.

Contour maps of chemical concentrations were contoured by hand, scanned, and digitized into ArcGIS. A discussion of the maps is presented below.

Carbon Tetrachloride. Carbon tetrachloride was detected in five of the twenty-one wells in the Gravel Aquifer and one of the nine wells sampled in the Perched Aquifer. Figure 7 shows the distribution of carbon tetrachloride in the Gravel Aquifer. The pattern of contamination depicts a carbon tetrachloride plume extending offsite to the northwest. The March 2023 highest detected carbon tetrachloride concentration (840 H µg/L) was in well MW-20, located north of the suspected primary source area near MW-18.

The concentrations at MW-20 have been strongly seasonal with an overall increasing trend beginning to decrease in August 2021 as shown in Figure 6. Concentrations in MW-24 at the northern property boundary had been steadily increasing since approximately 2007, but this trend was interrupted by a decline to 140 µg/L in March 2022 from the August 2021 record high value of 250 µg/L. While the March 2023 concentration of 160 µg/L continues this decline from August 2021, it has been steadily increasing from the March 2022 concentration of 140 µg/L. The concentrations at MW-18 fluctuate seasonally, but have been steadily decreasing since 2006, with a sharp drop in March 2021. To the southwest, MW-22 had a concentration of 7 µg/L during Event 46, which is close to the previous reading of 6.4 which was the record low. This well shows an overall decreasing trend in carbon tetrachloride concentrations since monitoring started in 2007. The data indicate that the extent of contamination possibly has migrated offsite to the southwest.

As shown in Figure 11, The only detection of carbon tetrachloride in the Perched aquifer was in MW-27 at 49 µg/L. This continues the overall decreasing trend since 2012, when it was first sampled.

Chloroform. Chloroform is an early breakdown product of carbon tetrachloride in the reductive dechlorination and denitrification biological breakdown processes. Chloroform was detected in seven of the twenty-two wells in the

Gravel Aquifer and one of the wells in the Perched Aquifer. The extent of chloroform in the Gravel Aquifer (Figure 8) follows the same general trend as carbon tetrachloride, but at much lower concentrations. The highest chloroform concentration is at MW-20 (140 µg/L). Concentrations at MW-20 have shown a general increase in concentrations over time with relatively stable values since 2018. At MW-18, which is located near the primary source area, chloroform concentrations have decreased considerably since August 2019. The March 2023 value of 2.8 µg/L continues the sharp drop that started in March 2021. Like carbon tetrachloride, this appears to indicate that the plume has moved away from the source area near MW-18 and toward the northwest. Trends in chloroform concentration (Figure 6) show that it tracks closely with carbon tetrachloride.

Chloroform concentrations in the east-central part of the Site, specifically MW-14, have had large seasonal fluctuations since March 2009, and the March 2023 value of 5.1 µg/L continues this trend. Carbon tetrachloride, the precursor to chloroform, has been rarely observed in MW-14. Concentrations of chloroform to the north of the release area, specifically MW-24, show a consistent increase over time and the March 2022 value of 27 µg/L was a new record. The March 2023 value stayed the same as August 2022 at 19 µg/L. Concentrations to the southwest (MW-22, 1.9 µg/L), have shown a decrease in concentrations over time, with stable values from 2016 to March 2023. Delineation of concentrations is not complete further to the southwest beyond MW-22. Well MW-5 (0.99 J H µg/L), at the southern boundary of the Site, continues to have chloroform detections close to or greater than 1 µg/L.

Like carbon tetrachloride, chloroform is only found in well MW-27 (14 µg/L) in the Perched aquifer. Concentrations have been stable at just under 20 µg/L since March 2015. August 2021 was the only outlier at 2.4 µg/L.

Trichloroethene. Figure 9 shows contours of TCE concentrations in the Gravel Aquifer. TCE was detected in eight of the twenty-two wells in the Gravel Aquifer and no wells in the Perched Aquifer. Concentrations of TCE are highest in MW-20 at 170 µg/L. This is a recent phenomenon starting in March 2021. Concentrations have been typically highest in MW-18 and MW-15, as both wells are located in the contaminant source areas. Concentrations in MW-15 spiked during March 2019 at 3100 µg/L, but then markedly decreased to a historic low non-detect in March 2023. TCE concentrations in MW-18 dropped sharply in March 2021 and reached a new historic low of 36 µg/L in March 2022, followed by 63 µg/L in August 2022 and 47 µg/L in March 2023.

TCE concentrations continue to increase in the northern part of the site at MW-24 over time and reached a new maximum of 88 µg/L in August 2021 followed by 69 µg/L in March 2022 and 68 µg/L in August 2022, and 63 µg/L in March 2023. Shifts in the highest concentrations from the source area wells MW-15 and MW-18 to wells MW-20 and MW-24 highlight the movement of the TCE plume to the northwest.

Concentrations are consistently decreasing in the southwest part of the site at MW-22 with record lows of 4.9 µg/L in March 2023. This is indicative of further movement of the southwest plume offsite.

TCE was detected in three of the four offsite wells, MW-100, MW-101, and MW-102, in the eastern area of contamination. The 80 µg/L TCE spike in MW-100 in August 2021 decreased to 4.6 µg/L in March 2023. MW-101 (2.2 µg/L in both March and August 2022) stayed relatively the same at 2.7 µg/L, remaining higher than 1 µg/L as it has since August 2017. Concentrations at MW-102 have been generally decreasing since approximately 2006 and while the August 2022 value of 4.0 µg/L was the new record low, the March 2023 value spike to 26 µg/L. This value, along with the non-detect value in MW-17 across the street may indicate some eastward movement of this plume, although of a much lower magnitude than in the past.

Tetrachloroethene. PCE concentration contours are shown on Figure 10. During Event 46, PCE was detected in four of the twenty-two wells in the Gravel Aquifer and none in the Perched Aquifer. The highest concentration (9.3 µg/L) was at MW-20, which follows a record high of 14 µg/L in March 2021. At MW-18, in the likely source area, the March 2023 value of 1.9 µg/L was the new record low. It appears that PCE sources near MW-18 are being transported to the northwest near MW-20 and MW-24 along with other VOCs. Concentrations along the northern site boundary at MW-24 have fluctuated greatly since 2012, and the March value of 0.47 J H µg/L is a return to low-level detections. PCE has remained non-detect since August 2012 at MW-23.

PCE concentrations to the southwest, at MW-22 (0.59 J H µg/L, a new record low), continue a steady decline that started in 2012. PCE has not been detected at the eastern perimeter of the Site, nor in the monitoring wells east of the Site on school property.

Cis-1,2-DCE. Cis-1,2-DCE occurs as a breakdown product of the progressive dechlorination of TCE, and concentration contours in the Gravel Aquifer are shown on Figure 12. During Event 46 (March 2023), cis-1,2-DCE was detected in five of the twenty-two wells in the Gravel Aquifer. In March 2023 the highest concentration (6.0 H µg/L) was at MW-30 and is consistent with a decreasing trend that started in 2012, shortly after the well was installed. Concentrations in well MW-22 (2.0 H µg/L), which appears connected to the occurrence in MW-30, continue at stable values around 2 µg/L.

5.0 References

EPA, National Functional Guidelines for Superfund Organic Methods Data Review, November 2020.

Oregon Department of Environmental Quality, *Numerical Groundwater Quality Reference Levels, Interim Standards for Maximum Measurable Levels of Contaminants in Groundwater, and Permanent Standards for Maximum Measurable Levels of Contaminants in Groundwater*, as delineated by Oregon Administrative Rules 340-40-020 and 090: November 14, 1997.

Oregon Department of Environmental Quality, *Pre-Calculated Hot Spot Look-Up Tables*, as delineated by Oregon Administrative Rules 340-122-010 through 115: October 20, 1998. Tables updated June 7, 2012. Latest version can be found at http://www.deq.state.or.us/lq/pubs/docs/RBDMHotSpotTable.pdf

Oregon Department of Environmental Quality, *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites*, as delineated by Oregon Administrative Rules 340-122-0205 through 0360: Electronic spreadsheets updated June 7, 2012. Latest version available at http://www.deq.state.or.us/lq/rbdm.htm

U.S. Environmental Protection Agency regions 3, 6, and 9, *Regional Screening Levels for Chemical Contaminants at Superfund Sites*, as downloaded from http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm. Tables updated May 2018.

USSE2, *Groundwater Monitoring Plan for the National Energy Technology Laboratory-Albany, Revision 14, Albany, Oregon.* January 2020.

USSE2, *Technical Memorandum: Conceptual Site Model Report for the National Energy Technology Laboratory (Formerly Albany Research Center), U.S. Department of Energy- Albany, Oregon.* July 2019.

WE2, *National Energy Technology Laboratory, Albany Groundwater Sampling Event 45 Work Plan Memo. July 2022*.

TABLES

Table 1
Monitoring Well Construction

Groundwater Sampling Event 44
Albany NETL, Albany, OR

Well Number	Total Depth	Screen Depth	Blank Casing	Filter Pack Depth
MW-1	30	15-30	0-15	12.1-30
MW-3	24	9-24	0-9	7-24
MW-4	20	10-20	0-10	8-20
MW-5	30	14.5-29.5	0-14.5	11-30
MW-6	30	14-29	0-14	12-30
MW-7	20	10-20	0-10	7-20
MW-8	20	10-20	0-10	7-20
MW-9	25	10-25	0-10	7.2-25
MW-10	25	10-25	0-10	6.5-25
MW-11	20	9.5-19.5	0-9.5	6.5-20
MW-13	25	10-25	0-10	7.3-25
MW-14	28	8-28	0-8	6.7-28
MW-15	35	25-35	0-25	23.1-36
MW-16	33	23-33	0-23	20.8-35.5
MW-17	30	20-30	0-20	18.1-38
MW-18	32	22-32	0-22	20-33
MW-19	31.5	21.5-31.5	0-21.5	19.5-32
MW-20	35	25-35	0-25	23-36
MW-21	31	20-30	0-20	18-31
MW-22	53	40-50	0-40	38-50.5
MW-23	41	27-37	0-27	25-37.5
MW-24	46	35.5-43.5	0-33.5	31.5-44
MW-25	36	19-29	0-19	17-29.5
MW-26	30	20-30	0-20	18-30
MW-27	15	10-15	0-10	8-15
MW-28	14	9-14	0-9	7-14
MW-29	29	24-29	0-24	22-29
MW-30	38	28-38	0-28	26-38
MW-31	38	28-38	0-28	26-38
MW-100	27	17-27	0-17	14.5-27.5
MW-101	27	17-27	0-17	17-30
MW-102	37	27-37	0-27	24.5-37.5
MW-103	45	35-45	0-35	34.5-47.5
PZ-1A	13	13-18	0-13	12-18.2
PZ-1B	26	21-26	0-21	20-26.2

Notes:

All measurements in feet below ground surface

All wells are completed with flush mount monuments

Table 2
Groundwater Depth, Elevation, and Water Quality Measurements

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Well Number	Sample Date	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)	Water Quality Measurements					
					pH	Temperature (°C)	Specific Conductivity (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)
MW-1	3/22/23	228.10	18.92	209.18	-	-	-	-	-	-
MW-3	3/20/23	219.61	8.52	211.09	7.75	14.4	0.724	14.8	6.35	138.7
MW-4	3/21/23	218.28	1.90	216.38	7.16	13.8	1.261	9.0	0.79	63.4
MW-5	3/21/23	217.08	9.85	207.23	8.23	13.0	0.934	19.0	2.76	-123.4
MW-6	3/21/23	219.48	12.35	207.13	7.23	12.2	0.191	11.0	7.05	-695.8
MW-7	3/21/23	216.85	1.09	215.76	7.60	11.4	0.924	17.0	3.76	-475.8
MW-8	3/21/23	220.23	7.87	212.36	8.51	13.3	0.511	12.0	1.63	94.8
MW-9	3/22/23	224.00	1.60	222.40	7.58	11.7	0.234	16.0	0.13	155.6
MW-10	3/22/23	225.41	1.78	223.63	7.92	13.8	0.302	18.0	1.96	19.7
MW-11	3/22/23	227.73	6.57	221.16	7.25	12.8	0.202	18.0	5.30	71.1
MW-13	3/21/23	223.31	9.16	214.15	7.09	14.0	0.615	12.0	2.60	129.7
MW-14	3/20/23	224.77	14.12	210.65	8.17	14.4	0.410	11.2	8.06	94.6
MW-15	3/20/23	222.96	10.87	212.09	7.20	14.7	0.680	8.2	4.55	159.6
MW-16	3/21/23	217.57	5.90	211.67	7.68	11.0	0.925	21.0	3.52	43.4
MW-17	3/20/23	218.84	8.02	210.82	7.32	14.9	0.859	8.0	1.76	160.9
MW-18	3/21/23	224.00	12.90	211.10	7.21	16.4	1.084	19.0	2.44	110.0
MW-19	3/22/23	224.20	13.47	210.73	7.26	14.5	0.570	15.0	2.33	213.4
MW-20	3/22/23	225.62	15.65	209.97	7.93	14.6	1.299	19.0	0.68	126.6
MW-21	3/21/23	216.60	5.58	211.02	-	-	-	-	-	-
MW-22	3/21/23	216.57	5.71	210.86	7.78	13.4	1.069	19.0	0.49	-44.7
MW-23	3/22/23	227.87	18.67	209.20	8.49	14.4	0.799	26.0	6.29	171.8
MW-24	3/22/23	227.49	18.20	209.29	7.15	14.4	0.989	20.0	1.38	109.5
MW-25	3/21/23	220.38	8.48	211.90	7.35	13.7	0.595	8.0	1.60	117.6
MW-26	3/20/23	220.63	10.20	210.43	7.06	14.4	0.566	10.7	4.03	-489.7
MW-27	3/20/23	222.80	8.42	214.38	7.87	13.1	0.824	8.7	6.59	135.3
MW-28	3/21/23	223.52	4.80	218.72	7.80	14.3	0.376	13.0	5.41	123.2
MW-29	3/21/23	217.93	6.82	211.11	7.38	16.2	1.614	8.0	1.59	20.7
MW-30	3/21/23	219.26	11.32	207.94	7.97	14.3	1.083	12.0	0.00	NM
MW-31	3/21/23	216.78	8.32	208.46	7.68	13.5	0.967	14.0	0.89	-298.4
MW-100	3/22/23	218.37	7.37	211.00	7.48	14.8	1.632	17.0	0.35	96.5
MW-101	3/22/23	218.54	7.54	211.00	7.42	16.3	1.038	17.0	3.18	129.1
MW-102	3/22/23	217.64	6.62	211.02	7.78	14.2	1.531	15.0	0.28	63.2
MW-103	3/22/23	216.51	5.87	210.64	7.68	13.7	1.099	20.0	2.53	70.9
PZ-1A	3/20/23	220.10	8.97	211.13	-	-	-	-	-	-
PZ-1B	3/20/23	220.05	8.81	211.24	-	-	-	-	-	-

Notes:
ft = feet
AMSL = Above Mean Sea Level
- = Not sampled
mS/cm = MilliSiemens per centimeter
NTUs = Nephelometric Turbidity Units
mg/L = Milligrams per liter
ORP = Oxidation-Reduction Potential
°C = Degrees Celsius
mV = Millivolts
NM- Not Measured

Table 3
Current and Historical Groundwater Elevations

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)															
		3/20/2023	3/20/2023	8/23/2022	3/17/2022	8/23/2021	3/2/2021	3/2/2020	8/26/2019	3/25/2019	8/20/2018	3/19/2018	9/1/2017	4/10/2017	9/16/2016	4/3/2016	8/20/2015	3/19/2015
MW-1	228.10	18.92	209.18	207.59	208.93	206.32	209.64	208.82	207.36	208.90	207.20	209.18	207.38	210.45	207.18	209.98	207.37	209.05
MW-3	219.61	8.52	211.09	207.25	210.94	205.77	211.59	210.50	207.96	210.44	207.01	211.09	206.98	211.56	207.44	211.03	207.76	210.24
MW-4	218.28	1.90	216.38	211.40	216.88	209.28	216.54	216.25	210.84	215.55	210.10	216.38	210.63	216.46	209.85	215.86	210.28	216.57
MW-5	217.08	9.85	207.23	200.98	206.83	199.32	207.62	206.53	201.28	206.63	201.26	207.23	200.71	207.75	200.41	206.59	200.08	205.95
MW-6	219.48	12.35	207.13	201.48	207.28	199.41	207.36	205.89	200.18	205.97	200.03	207.13	199.93	207.05	199.48	205.96	199.40	205.64
MW-7	216.85	1.09	215.76	209.05	215.70	206.37	215.76	215.40	208.10	214.85	207.75	215.76	208.02	215.68	206.90	215.61	206.39	215.25
MW-8	220.23	7.87	212.36	206.53	212.50	204.47	213.25	212.51	208.71	212.45	207.25	212.36	207.98	213.73	207.61	213.34	207.78	213.13
MW-9	224.00	1.60	222.40	213.86	222.95	209.39	222.32	221.63	211.98	221.53	210.78	222.40	213.00	222.45	209.63	221.88	210.39	222.19
MW-10	225.41	1.78	223.63	215.84	224.11	212.36	223.43	223.21	213.57	222.68	213.60	223.63	214.15	223.56	212.28	223.18	213.76	223.71
MW-11	227.73	6.57	221.16	215.96	221.98	212.29	221.19	220.19	213.08	220.63	212.58	221.16	213.42	221.30	212.42	220.57	212.82	221.13
MW-13	223.31	9.16	214.15	208.37	213.56	205.94	213.99	213.03	209.66	212.90	207.96	214.15	208.01	214.51	208.58	214.19	209.26	213.23
MW-14	224.77	14.12	210.65	208.01	210.47	210.52	212.06	210.00	207.92	209.99	207.44	210.65	207.52	211.52	207.54	211.14	207.90	209.89
MW-15	222.96	10.87	212.09	206.35	210.91	203.36	211.58	210.63	207.94	210.37	206.24	212.09	206.51	211.65	207.41	211.08	207.71	210.53
MW-16	217.57	5.90	211.67	204.84	211.67	202.74	211.47	211.07	205.41	210.81	205.17	211.67	205.12	211.82	204.87	211.37	204.21	211.12
MW-17	218.84	8.02	210.82	206.67	210.95	204.93	211.50	210.57	207.91	210.49	206.42	210.82	206.74	211.66	207.41	211.39	207.64	213.46
MW-18	224.00	12.90	211.10	206.52	210.87	203.65	211.58	210.51	207.88	210.28	206.42	211.10	206.51	211.77	207.25	211.11	207.70	210.33
MW-19	224.20	13.47	210.73	206.20	210.60	203.26	211.14	210.30	207.53	210.20	206.22	210.73	206.65	212.00	206.93	210.63	207.18	210.30
MW-20	225.62	15.65	209.97	207.11	209.82	201.87	210.38	209.54	207.34	209.57	206.75	209.97	207.09	211.21	206.94	210.52	207.20	209.64
MW-21	216.60	5.58	211.02	204.28	211.05	202.40	211.18	210.53	204.78	210.45	204.43	211.02	204.26	211.25	203.82	210.60	203.67	210.35
MW-22	216.57	5.71	210.86	204.07	210.87	202.43	211.19	210.12	204.50	210.17	204.25	210.86	204.02	210.98	203.50	210.31	203.31	210.08
MW-23	227.87	18.67	209.20	207.60	208.92	206.31	209.64	208.87	207.32	208.87	207.17	209.20	207.37	210.45	207.19	209.98	207.39	209.01
MW-24	227.49	18.20	209.29	207.52	209.19	206.18	209.71	208.94	207.29	208.89	207.13	209.29	207.34	210.70	207.17	209.87	207.28	209.21
MW-25	220.38	8.48	211.90	205.83	211.73	202.23	212.30	210.98	207.50	210.68	206.05	211.90	206.48	212.28	206.53	211.44	206.86	211.41
MW-26	220.63	10.20	210.43	208.13	210.33	206.28	211.72	209.08	208.09	209.16	207.58	210.43	207.51	210.85	206.88	210.46	207.73	209.72
MW-27	222.80	8.42	214.38	209.98	214.25	208.43	214.49	213.62	209.95	213.78	208.57	214.38	209.02	214.55	208.48	214.05	208.94	213.75
MW-28	223.52	4.80	218.72	217.58	220.32	216.90	219.86	219.47	218.06	219.45	217.40	218.72	217.55	220.32	216.91	219.92	217.37	220.82
MW-29	217.93	6.82	211.11	205.00	210.75	202.37	211.24	210.43	207.60	210.31	206.03	211.11	205.38	211.63	206.93	210.98	207.75	210.91
MW-30	219.26	11.32	207.94	202.17	208.06	201.22	208.19	206.84	201.48	206.75	202.16	207.94	201.68	207.76	200.55	206.88	200.34	206.29
MW-31	216.78	8.32	208.46	201.91	207.43	200.50	207.87	206.76	201.09	206.78	201.34	208.46	200.66	207.80	200.51	206.81	200.42	206.38
MW-100	218.37	7.37	211.00	206.69	211.07	204.34	211.51	210.62	207.82	210.49	206.47	211.00	207.02	211.69	207.06	210.95	207.62	210.51
MW-101	218.54	7.54	211.00	206.11	211.04	203.47	211.48	210.64	207.72	210.46	206.14	211.00	206.84	211.72	206.58	210.92	207.53	210.54
MW-102	217.64	6.62	211.02	207.08	211.24	205.26	211.58	210.62	207.79	210.47	206.76	211.02	207.16	211.66	207.29	210.92	207.56	210.48
MW-103	216.51	5.87	210.64	207.66	210.91	206.51	NM	210.36	207.73	210.16	NM	NM	207.33	211.21	207.28	210.86	207.51	210.24
PZ-1A	220.10	8.97	211.13	206.52	211.99	203.51	211.62	210.68	207.95	210.37	206.30	211.13	207.00	211.78	207.48	207.09	207.64	197.05
PZ-1B	220.05	8.81	211.24	206.55	211.21	203.55	211.69	210.78	207.86	210.40	206.41	211.24	207.13	211.87	207.68	207.13	207.68	197.00

Notes:
ft = feet
AMSL = Above Mean Sea Level
NM = Not Measured
NA = Not Applicable, before well installation

Table 3
Current and Historical Groundwater Elevations

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)																	
		8/21/2014	2/15/2014	8/19/2013	3/25/2013	8/13/2012	3/26/2012	8/30/2011	3/21/2011	8/23/2010	03/22/10	09/01/09	03/16/09	10/10/08	03/10/08	10/15/07	06/25/07	03/05/07	10/02/06
MW-1	228.10	207.70	208.02	207.34	208.62	207.88	207.92	207.92	209.49	207.93	208.91	207.06	206.99	206.85	208.73	206.95	208.16	209.06	207.03
MW-3	219.61	208.27	209.78	207.77	210.16	208.38	211.30	208.58	211.28	208.51	213.42	207.57	209.70	207.21	210.07	207.84	209.10	211.06	207.72
MW-4	218.28	212.27	216.55	210.78	216.00	212.73	217.08	212.69	216.72	211.76	215.95	210.90	216.14	211.58	216.23	210.66	213.47	215.83	210.18
MW-5	217.08	200.93	207.27	200.88	206.53	202.23	208.66	202.51	207.62	201.54	205.87	200.50	205.47	200.29	205.18	201.48	202.73	206.94	199.66
MW-6	219.48	200.17	206.37	200.13	205.93	200.93	208.40	202.03	206.82	199.52	203.97	198.63	204.40	198.50	203.26	199.43	200.27	205.56	197.28
MW-7	216.85	209.84	215.41	208.50	215.05	210.95	NM	210.44	215.53	209.66	214.81	207.16	214.88	206.53	214.44	208.38	209.98	214.99	205.90
MW-8	220.23	209.28	213.01	208.25	212.81	209.75	213.78	209.87	213.83	209.27	212.96	208.51	213.07	210.40	213.23	214.17	210.70	219.18	216.35
MW-9	224.00	211.92	224.00	212.73	221.58	212.47	223.05	212.00	222.57	211.85	218.74	207.74	220.89	207.55	216.65	210.89	209.01	214.77	207.14
MW-10	225.41	215.79	224.91	214.95	223.09	217.36	224.16	217.52	223.86	216.80	222.96	214.96	223.76	214.65	222.40	222.11	218.80	223.28	211.89
MW-11	227.73	214.43	222.86	214.08	220.62	215.99	220.86	215.79	221.28	216.64	219.99	215.41	219.97	217.58	219.73	219.48	221.01	221.55	217.68
MW-13	223.31	209.65	210.99	209.44	213.23	210.19	213.28	210.14	214.39	209.94	210.11	209.00	212.85	208.16	209.96	207.44	210.59	214.00	208.71
MW-14	224.77	208.26	Repeat	207.77	209.61	208.42	NM	208.50	210.86	208.59	210.15	207.62	209.09	207.30	209.77	207.65	209.06	210.47	207.72
MW-15	222.96	208.31	210.01	207.93	210.41	208.58	211.41	208.55	211.41	208.48	210.49	207.55	209.83	207.26	210.15	207.93	209.09	211.15	207.65
MW-16	217.57	205.89	211.33	205.34	210.99	206.47	212.46	206.65	212.07	205.98	210.52	204.90	210.56	204.68	210.18	206.15	207.21	211.47	204.42
MW-17	218.84	208.28	210.10	207.76	210.34	208.48	211.41	208.53	211.31	208.40	210.44	207.46	209.72	207.07	210.03	207.76	209.02	211.10	207.64
MW-18	224.00	208.30	209.65	207.77	210.30	208.51	211.28	208.53	211.34	208.50	210.45	207.56	209.80	207.30	210.19	207.96	209.09	211.06	207.64
MW-19	224.20	208.09	209.96	207.87	210.00	208.23	211.06	208.10	211.34	208.08	210.45	207.06	210.79	207.07	211.14	208.85	208.75	212.02	207.17
MW-20	225.62	207.69	208.67	207.21	209.31	207.83	210.25	208.08	210.47	207.87	209.59	206.92	208.85	206.90	209.41	207.31	208.38	210.01	206.99
MW-21	216.60	204.69	210.46	204.41	210.15	205.51	NM	205.95	211.72	205.46	210.14	204.33	210.17	204.45	209.78	205.79	206.69	210.89	203.92
MW-22	216.57	204.65	210.37	204.09	209.92	205.15	211.69	205.64	211.55	205.16	209.87	204.04	209.98	204.19	209.53	205.52	206.41	NA	NA
MW-23	227.87	207.71	208.02	207.34	208.61	207.90	209.47	207.92	209.53	207.96	208.92	207.09	207.98	206.85	208.73	206.96	208.17	NA	NA
MW-24	227.49	207.54	208.28	207.22	208.79	207.83	214.64	208.04	209.87	207.87	209.04	206.99	208.18	206.88	208.88	207.11	208.22	NA	NA
MW-25	220.38	207.86	211.43	207.16	211.40	208.40	212.52	208.45	212.32	207.93	211.45	207.03	214.23	207.80	211.51	209.10	209.33	NA	NA
MW-26	220.63	208.36	208.60	207.63	209.47	208.26	210.51	208.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	210.35	214.17	208.85	213.67	211.62	211.29	209.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	218.06	222.92	212.92	220.00	217.72	220.65	217.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	208.46	209.95	207.74	210.35	208.49	210.80	206.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	201.19	206.95	201.07	206.42	202.22	208.70	203.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	201.24	206.97	201.31	206.83	202.47	208.89	202.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	208.13	210.56	207.67	210.28	208.39	211.22	208.48	211.50	208.31	210.36	207.37	209.65	207.15	209.93	207.71	208.89	211.07	208.14
MW-101	218.54	208.07	210.67	207.61	210.35	208.29	211.29	208.41	211.50	208.20	210.35	207.25	209.48	207.05	209.93	207.64	208.82	211.10	207.72
MW-102	217.64	208.04	210.68	207.63	210.33	208.32	211.25	208.34	211.42	208.14	210.24	207.18	209.64	206.77	209.78	207.50	208.71	211.60	206.54
MW-103	216.51	207.96	210.61	207.50	210.05	208.09	210.95	208.06	210.99	207.92	209.80	207.01	209.32	206.61	209.31	207.15	208.40	210.77	207.21
PZ-1A	220.10	208.29	210.55	207.44	210.30	211.43	211.43	208.58	211.39	NM	213.86	208.64	209.90	208.20	210.29	208.00	209.17	211.05	207.74
PZ-1B	220.05	207.99	210.60	207.71	210.37	211.46	211.46	208.66	211.17	NM	210.93	207.40	209.55	207.81	210.19	207.95	209.65	211.10	198.49

Notes:
ft = feet
AMSL = Above Mean Sea Lev
NM = Not Measured
NA = Not Applicable, before we

Table 3
Current and Historical Groundwater Elevations

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)												
		02/27/06	09/26/05	02/21/05	10/04/04	05/10/04	02/23/04	11/17/03	08/25/03	05/27/03	02/10/03	11/07/02	07/16/02	02/26/02
MW-1	228.10	208.92	207.00	207.72	206.75	208.10	208.34	206.21	206.99	208.75	207.64	206.17	207.40	206.55
MW-3	219.61	210.42	207.49	208.98	207.32	209.04	209.96	206.34	207.00	209.57	209.20	206.04	207.67	207.49
MW-4	218.28	215.68	210.78	215.54	212.63	214.85	216.04	211.68	209.86	214.41	214.52	209.65	211.38	213.88
MW-5	217.08	206.22	200.77	204.59	201.35	204.23	206.58	200.48	199.92	204.78	205.51	199.87	201.17	203.34
MW-6	219.48	204.17	197.77	202.38	198.12	202.07	205.00	197.44	197.46	202.79	204.22	197.44	199.17	200.96
MW-7	216.85	214.90	207.60	213.52	209.17	213.13	214.84	206.67	206.88	212.73	213.52	205.46	207.00	212.29
MW-8	220.23	218.53	216.38	218.38	217.42	218.22	218.99	218.52	216.93	218.19	218.82	217.05	217.26	219.53
MW-9	224.00	211.33	207.04	210.34	207.80	210.12	210.83	207.20	207.37	209.57	209.16	206.36	207.80	208.07
MW-10	225.41	221.36	212.45	220.93	214.05	220.39	222.30	214.16	214.44	220.34	220.23	209.61	215.77	221.83
MW-11	227.73	220.43	215.46	218.89	213.83	219.37	221.25	215.53	216.84	220.23	221.03	211.85	216.85	219.85
MW-13	223.31	212.67	208.61	211.51	209.34	211.01	212.22	205.31	208.43	211.82	211.30	207.84	209.08	210.50
MW-14	224.77	210.09	207.48	208.58	207.24	208.89	209.51	206.53	207.35	209.62	208.66	206.43	207.87	207.12
MW-15	222.96	210.50	207.47	209.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	217.57	210.52	204.90	209.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17	218.84	210.49	207.41	209.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18	224.00	210.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19	224.20	210.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20	225.62	209.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21	216.60	209.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-22	216.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23	227.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-24	227.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-25	220.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-26	220.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-101	218.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-102	217.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-103	216.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1A	220.10	218.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1B	220.05	210.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
ft = feet
AMSL = Above Mean Sea Lev
NM = Not Measured
NA = Not Applicable, before we

Table 4
Hydraulic Gradient Calculations
Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Horizontal Gradient Locations	Aquifer Zone Screened	Elevation (ft AMSL)	Elevation Difference	Horizontal Distance	Gradient
MW-10 to MW-11					
MW-10	Perched	223.63	2.47	500.9	4.93E-03
MW-11		221.16			
MW-10 to MW-8					
MW-10	Perched	223.63	11.27	744.9	1.51E-02
MW-8		212.36			
MW-10 to MW-4					
MW-10	Perched	223.63	7.25	1205.8	6.01E-03
MW-4		216.38			
MW-28 to MW-8					
MW-28	Perched	218.72	6.36	289.4	2.20E-02
MW-8		212.36			
MW-16 to MW-6					
MW-16	Gravel	211.67	4.54	463.6	9.79E-03
MW-6		207.13			
MW-16 to MW-31					
MW-16	Gravel	211.67	3.21	661.4	4.85E-03
MW-31		208.46			
MW-23 to MW-24					
MW-23	Gravel	209.20	-0.09	321.5	-2.80E-04
MW-24		209.29			
MW-25 to MW-23					
MW-25	Gravel	211.90	2.70	1320.8	2.04E-03
MW-23		209.20			

Table 5
Detection Summary

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Analyte	Minimum Applicable Criteria*	Detection Frequency	Minimum Criteria Exceedance Frequency	Maximum Detected Concentration	Location of Maximum Detection	Minimum Detected Concentration
Volatile Organics (µg/L)						
Carbon tetrachloride	0.41	7/33	7/33	920 H	MW-20	1.1 H
Chloroform	0.19	9/33	9/33	140	MW-20	0.99 J H
cis-1,2-Dichloroethene	3.6	6/33	1/33	6.0 H	MW-30	0.35 J
Tetrachloroethene (PCE)	4.1	5/33	2/33	9.3	MW-20	0.47 J H
Trichloroethene (TCE)	0.28	9/33	9/33	170	MW-20	0.81 J H
Naphthalene	0.14	1/33	1/33	1.9 J H	MW-4	1.9 J H

Notes:

µg/L = micrograms per Liter

mg/L = milligrams per Liter

J = Analyte concentration is an estimate. Analyte was detected below Method Reporting Limit, but above the Method Detection Limit

J+ = Analyte was detected in the trip blank and/or the method blank, result may be biased high.

J- = Analyte was past holding time, result may be biased low.

H = Analyzed past 14 day holding time

B = Analyte was detected in the Method Blank

* = Minimum Applicable Criteria are the minimium criteria presented in Table 7

** = Method Detection Limits are above the minimum applicable screening criteria. Additional concentrations may exceed minimum applicable screening criteria

Table 5
Detection Summary

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Analyte	Minimum Applicable Criteria*	Detection Frequency	Minimum Criteria Exceedance Frequency	Maximum Detected Concentration	Location of Maximum Detection	Minimum Detected Concentration
Metals (mg/L)						
Aluminum	0.05	13/16	13/16	2.4	MW-22	0.10 J
Antimony	0.001	2/16	0/16	0.00018	MW-3	0.00015 J
Arsenic	0.000038	16/16	16/16	0.13	MW-16	0.00036 J
Barium	0.38	16/16	0/16	0.12	MW-16	0.0025
Cadmium	0.0009	2/16	0/16	0.000046 J	MW-13	0.000045 J
Calcium	--	16/16	--	38	MW-16 and MW-4	7.2
Chromium	0.00035	16/16	15/16	0.013	MW-16	0.00018 J
Cobalt	0.0006	16/16	16/16	0.012	MW-22	0.00010 J
Copper	0.08	11/16	0/16	0.0035	MW-24	0.00061 J
Iron	0.3	15/16	13/16	71	MW-16	0.079 J
Lead	0.015	15/16	0/16	0.00077	MW-22	0.00010 J
Magnesium	--	16/16	--	19	MW-4	3.6
Manganese	0.043	16/16	9/16	2.8	MW-20	0.012
Nickel	0.022	16/16	0/16	0.0083	MW-16	0.00031 J
Potassium	--	16/16	--	1.3 J	MW-16	0.22 J
Sodium	--	16/16	--	25	MW-22	5.4
Thallium	0.00002	2/16	2/16	0.000043 J	MW-3	0.000031 J
Vanadium	0.0086	16/16	6/16	0.019	MW-22	0.0014 J
Zinc	0.6	14/16	0/16	0.0073	MW-16	0.00099 J

Table 6
Analytical Results for Detected Constituents - Volatile Organics

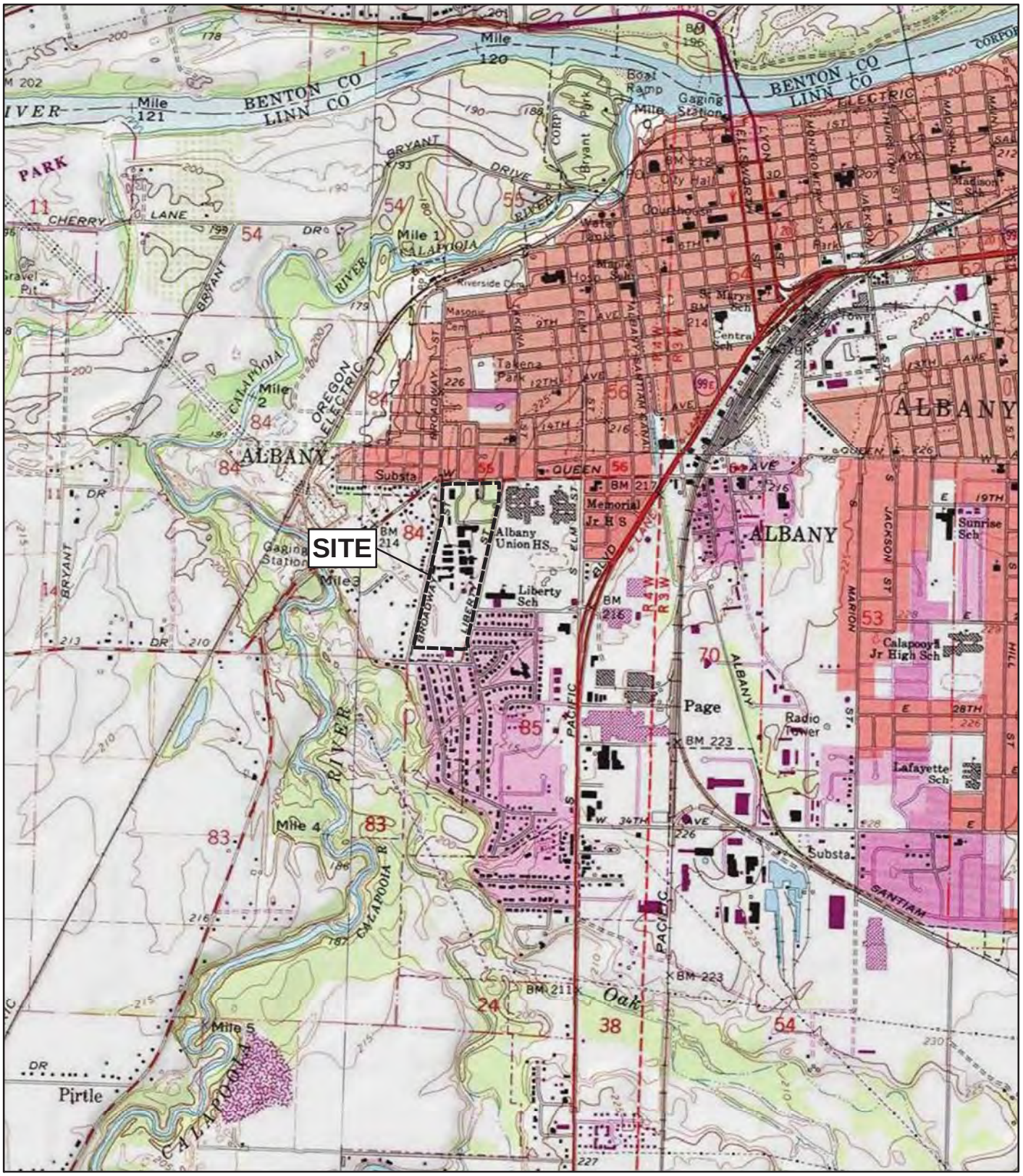
Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Volatile Organic Concentrations					
			Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Naphthalene
MW-3	DUP1	03/20/2023	3.3 U H	2.1 U H	1.6 U H	2.0 U H	1.5 U H	3.9 U H
MW-3	MW-3	03/20/2023	3.3 U H	2.1 U H	1.6 U H	2.0 U H	1.5 U H	3.9 U H
MW-4	MW-4	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	**1.9 J H**
MW-5	MW-5	03/21/2023	0.30 U H	**0.99 J H**	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-6	MW-6	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-7	MW-7	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-8	MW-8	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-9	MW-9	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U
MW-10	MW-10	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U
MW-11	MW-11	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U
MW-13	MW-13	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-14	MW-14	03/20/2023	3.3 U H	**5.1 H**	1.6 U H	2.0 U H	1.5 U H	3.9 U H
MW-15	MW-15	03/20/2023	3.3 U H	2.1 U H	1.6 U H	2.0 U H	1.5 U H	3.9 U H
MW-16	MW-16	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-17	MW-17	03/20/2023	3.3 U H	2.1 U H	1.6 U H	2.0 U H	1.5 U H	3.9 U H
MW-18	MW-18	03/21/2023	**24 H**	**2.8 H**	0.30 U H	**1.9 H**	**47 H**	1.0 U H
MW-19	MW-19	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U
MW-20	DUP2	03/22/2023	**920 H**	**130**	**0.58 J**	**8.9**	**160**	1.0 U
MW-20	MW-20	03/22/2023	**840 H**	**140**	**0.54 J**	**9.3**	**170**	1.0 U
MW-22	MW-22	03/21/2023	**7.0 H**	**1.9 H**	**2.0 H**	**0.59 J H**	**4.9 H**	1.0 U H
MW-23	MW-23	03/22/2023	**1.1 H**	**3.1 H**	0.30 U H	0.30 U H	**0.81 J H**	1.0 U H
MW-24	MW-24	03/22/2023	**160 H**	**19 H**	0.30 U H	**0.47 J H**	**63 H**	1.0 U H
MW-25	MW-25	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-26	MW-26	03/20/2023	3.3 U H	2.1 U H	1.6 U H	2.0 U H	1.5 U H	3.9 U H
MW-27	MW-27	03/20/2023	**49 H**	**14 H**	1.6 U H	2.0 U H	1.5 U H	3.9 U H
MW-28	MW-28	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-29	MW-29	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-30	MW-30	03/21/2023	0.30 U H	0.30 U H	**6.0 H**	0.30 U H	0.30 U H	1.0 U H
MW-31	MW-31	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H
MW-100	MW-100	03/22/2023	0.30 U	0.30 U	**0.41 J**	0.30 U	**4.6**	1.0 U
MW-101	MW-101	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	**2.7**	1.0 U
MW-102	MW-102	03/22/2023	0.30 U	0.30 U	**0.35 J**	0.30 U	**26**	1.0 U
MW-103	MW-103	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U
Minimum Applicable Screening Criteria			**0.41**	**0.19**	**3.6**	**4.1**	**0.28**	**0.14**

Notes:
µg/L = Micrograms per liter
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method Reporting Limit, but above the Method Detection Limit
J+ = Analyte was detected in the trip blank and/or the method blank, result may be biased high.
J- = Analyte was past holding time, result may be biased low.
H = Analyzed past 14 day holding time
B = Analyte was detected in the Method Blank
R = Unusable as determined by data validation

Bold indicates analyte was detected above the method detection limit
Shading indicates result exceeds the minimum applicable screening criteria (See Table 7).

FIGURES



Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

1,000 0 1,000 2,000

SCALE IN FEET

SITE VICINITY

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 1

K:\25697357 NETL Albany\MXD\2Q15\Fig 1 Site Vicinity.mxd



Sources: Albany GIS, 2023, NAIP 2020.

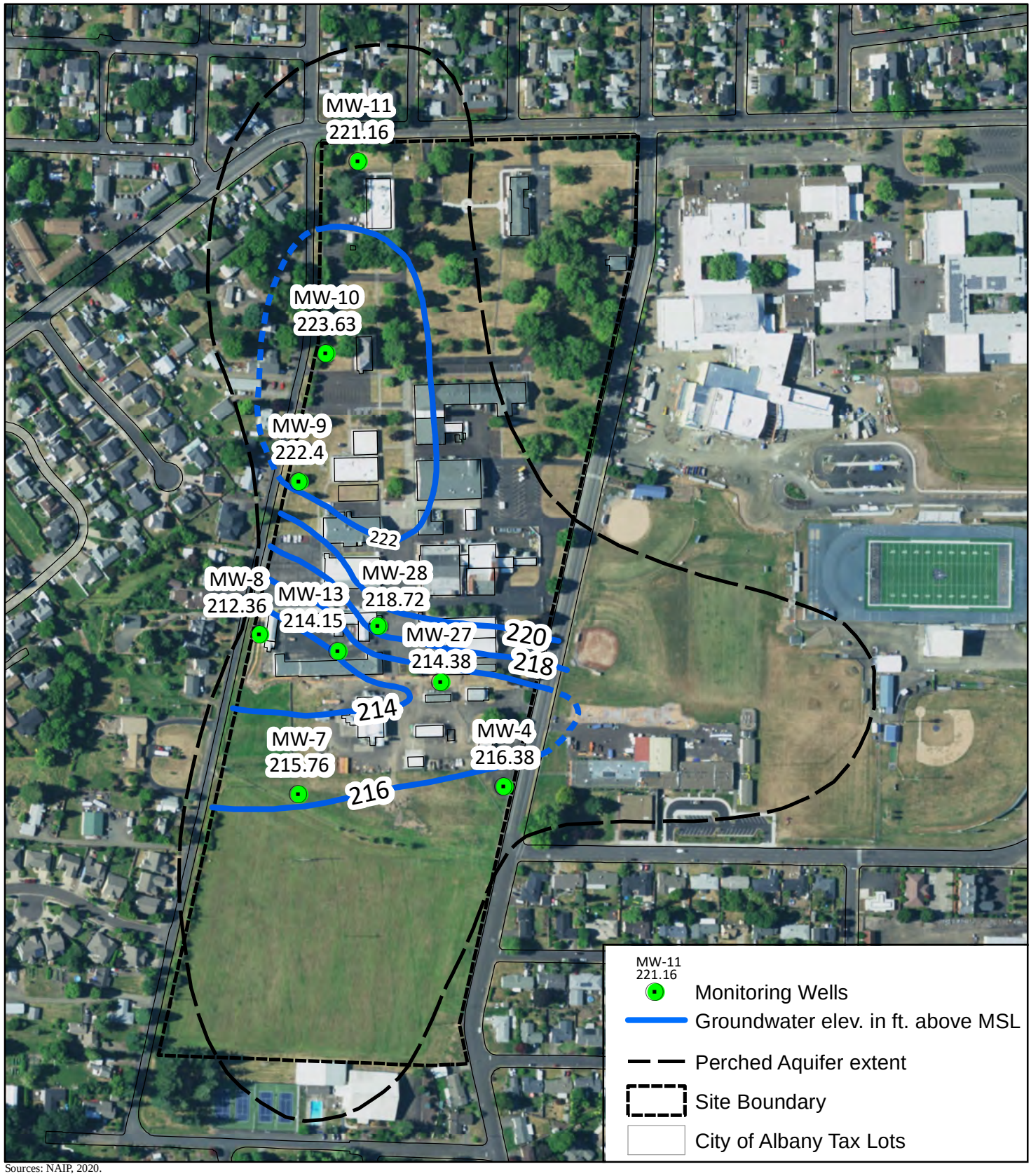
150 75 0 150 300
Feet

SITE MAP

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

MARCH 2023

FIGURE 2



Sources: NAIP, 2020.
Albany GIS, 2007.

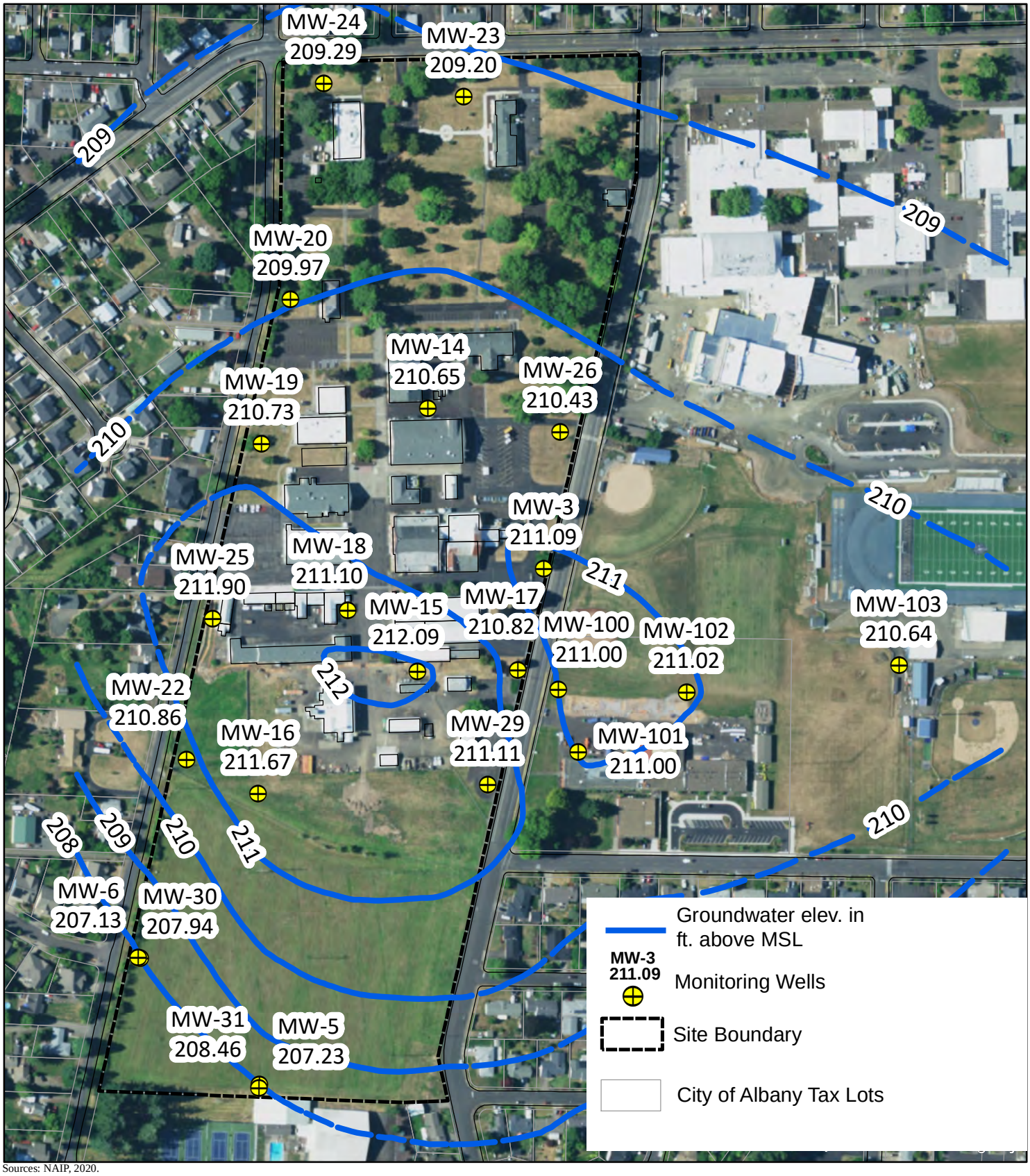
150 75 0 150 300
Feet

GROUNDWATER ELEVATION CONTOURS IN THE PERCHED AQUIFER, MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 3



Sources: NAIP, 2020.
Albany GIS, 2007.

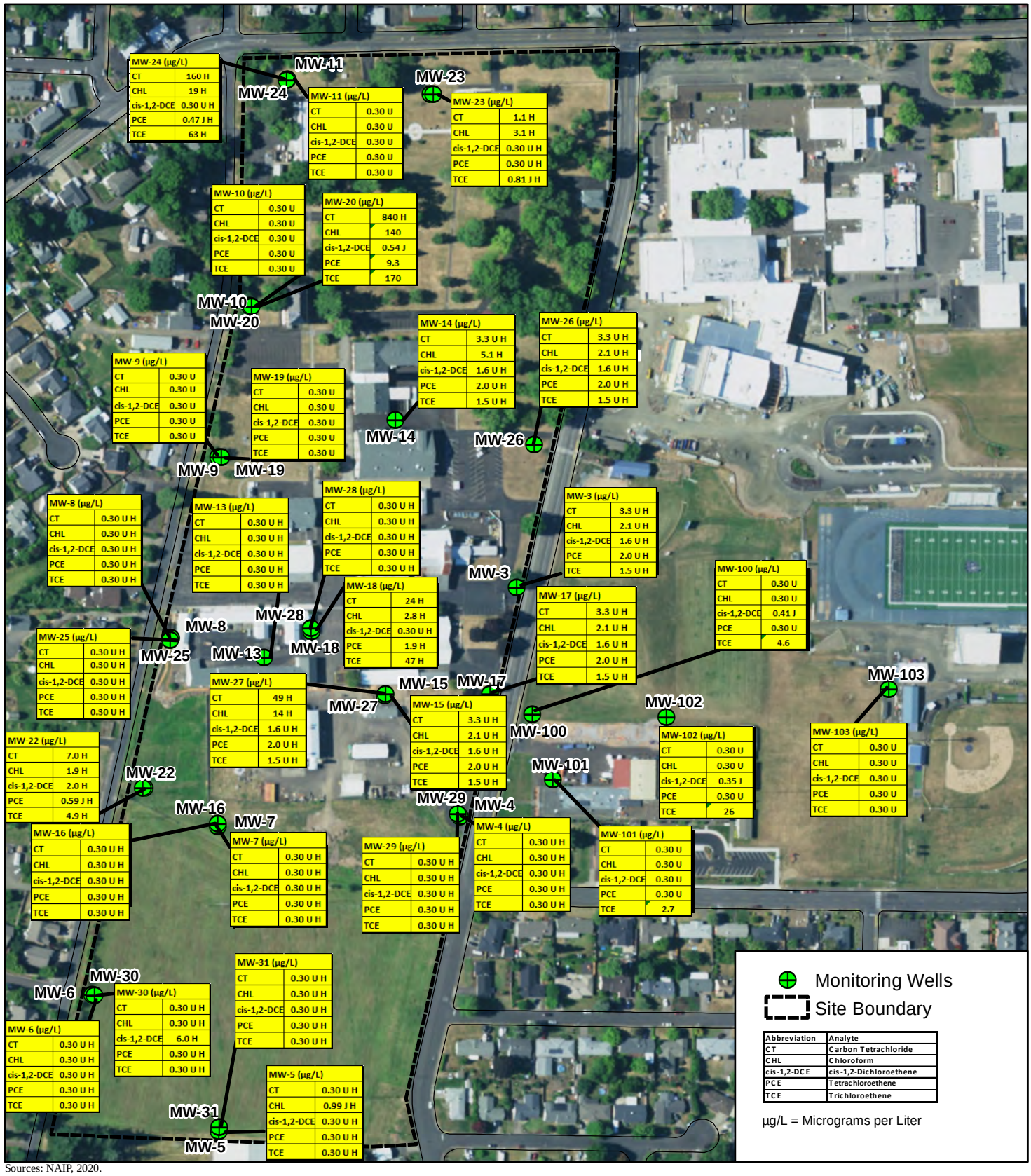
200 100 0 200 400
Feet

GROUNDWATER ELEVATION CONTOURS IN THE GRAVEL AQUIFER, MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 4



Sources: NAIP, 2020.
Albany GIS, 2007.

150 75 0 150 300
Feet

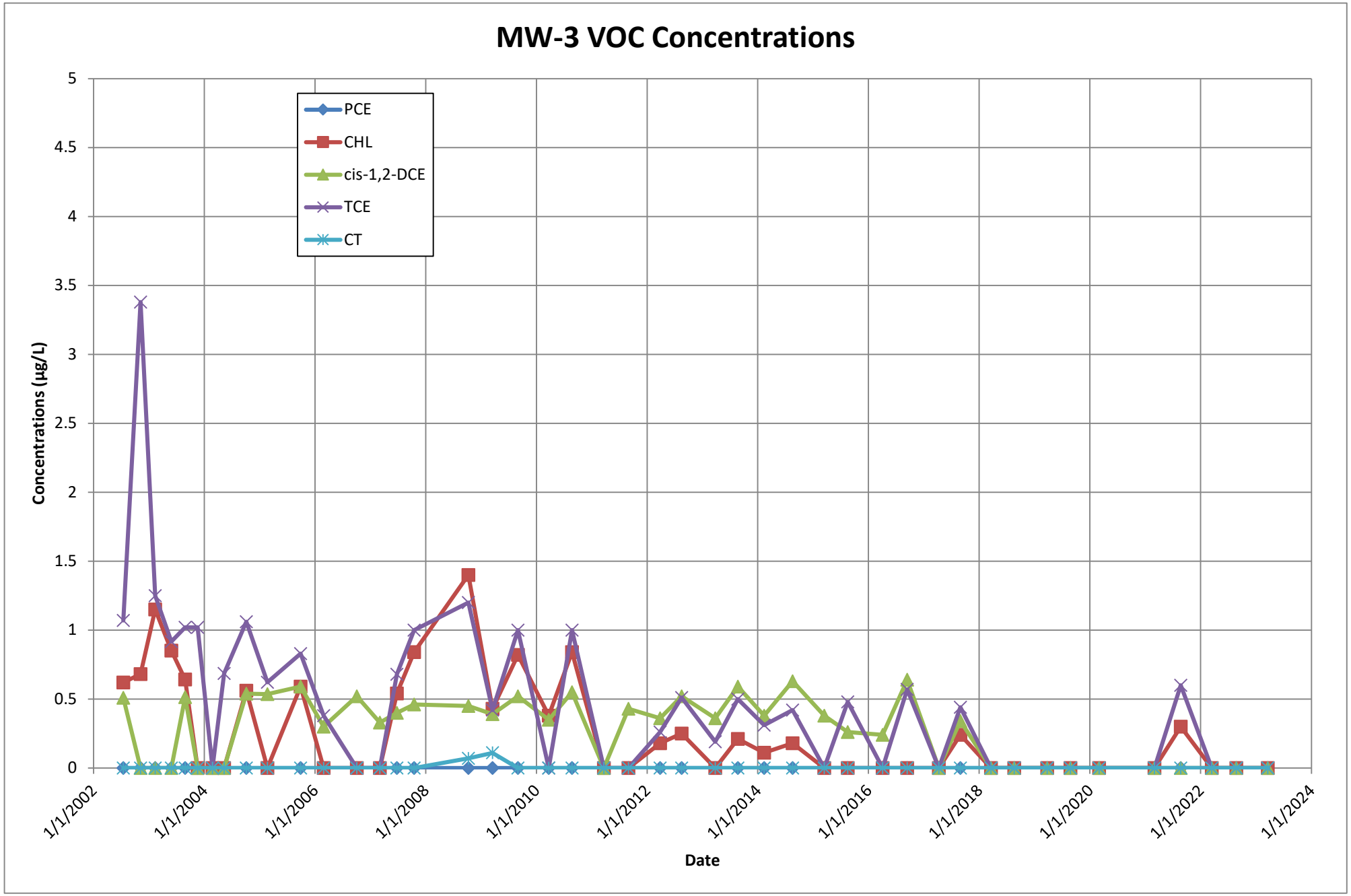
GROUNDWATER ANALYTICAL RESULTS
MARCH 2023

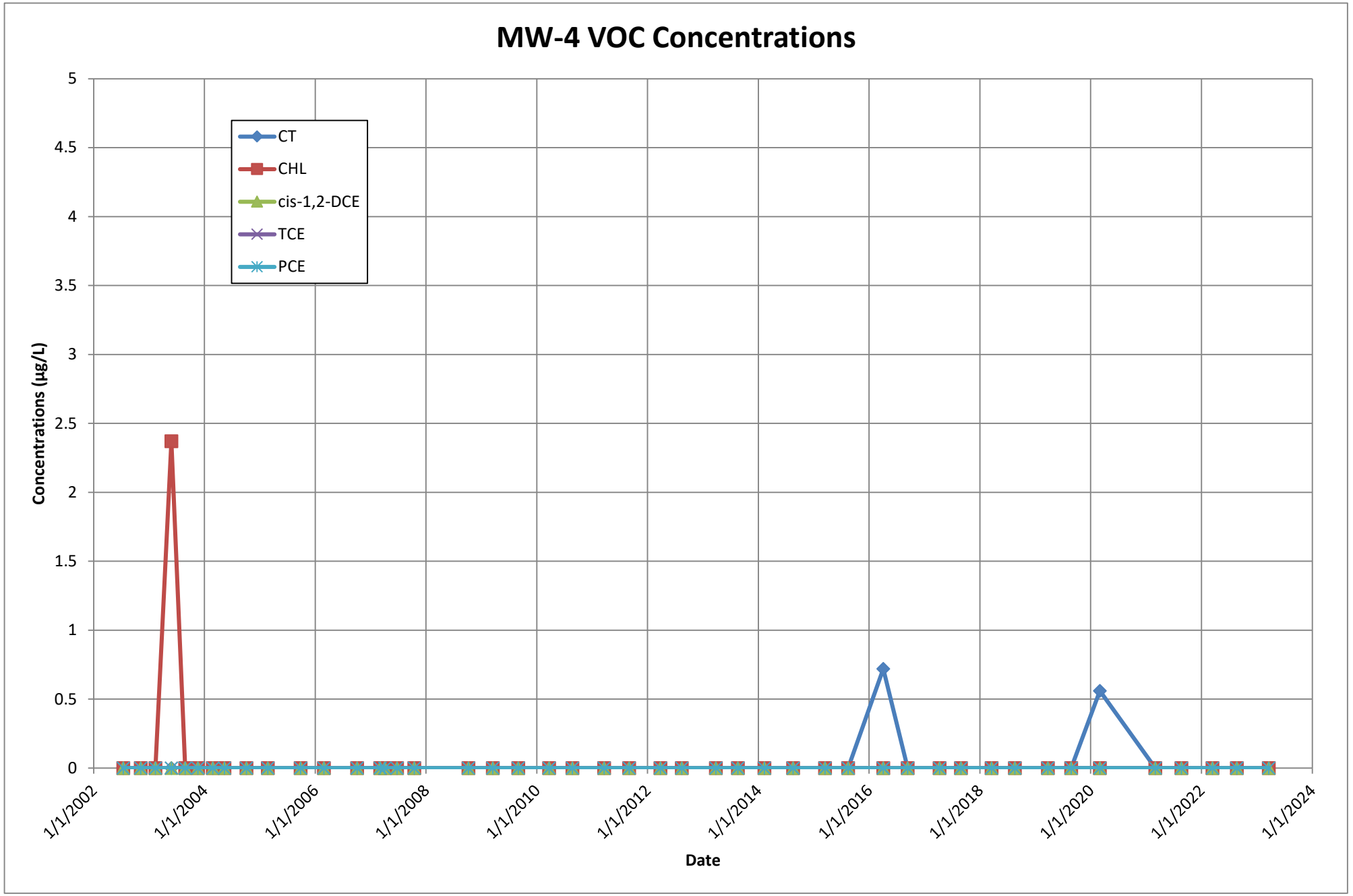
NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

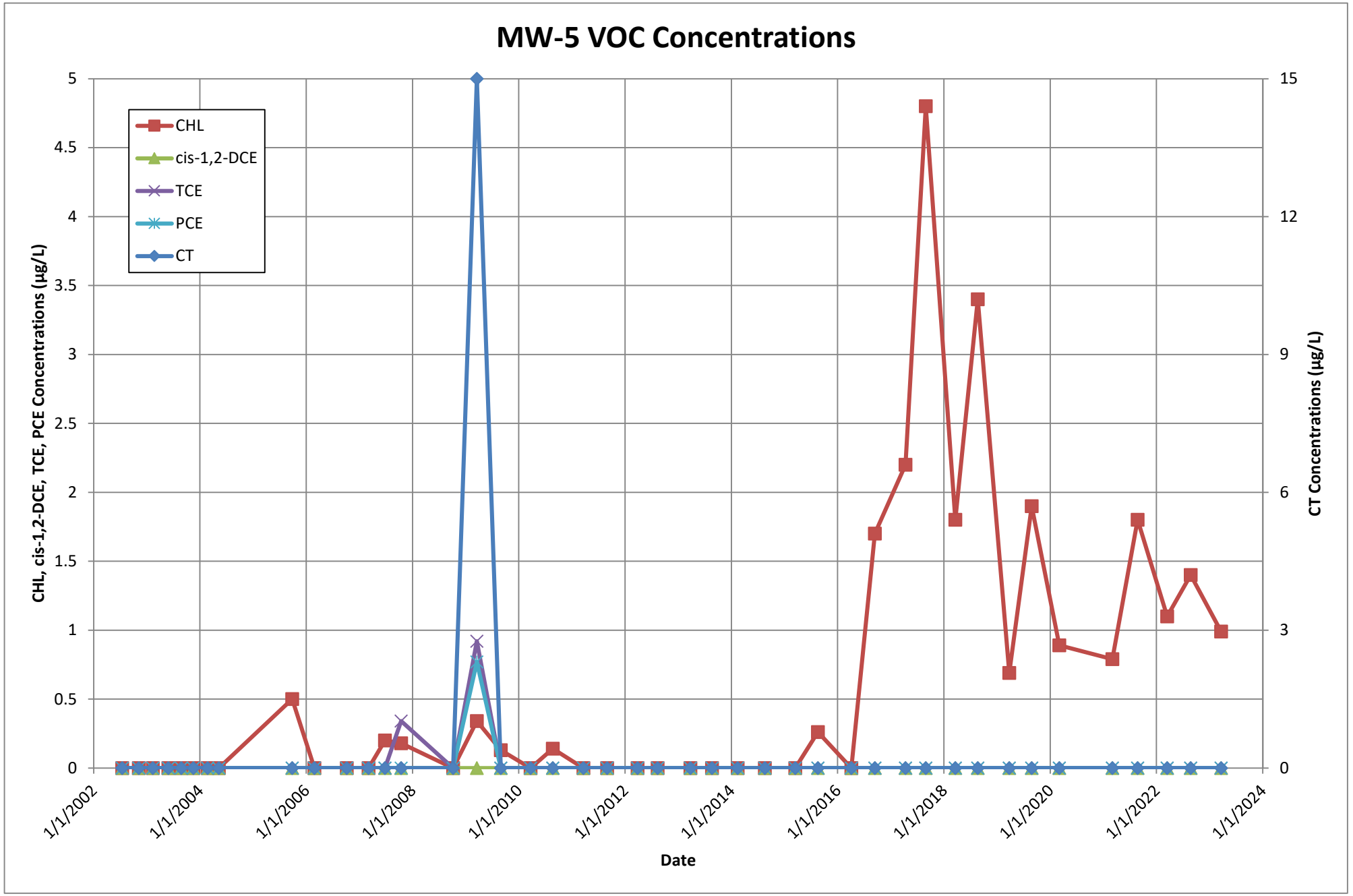
March 2023

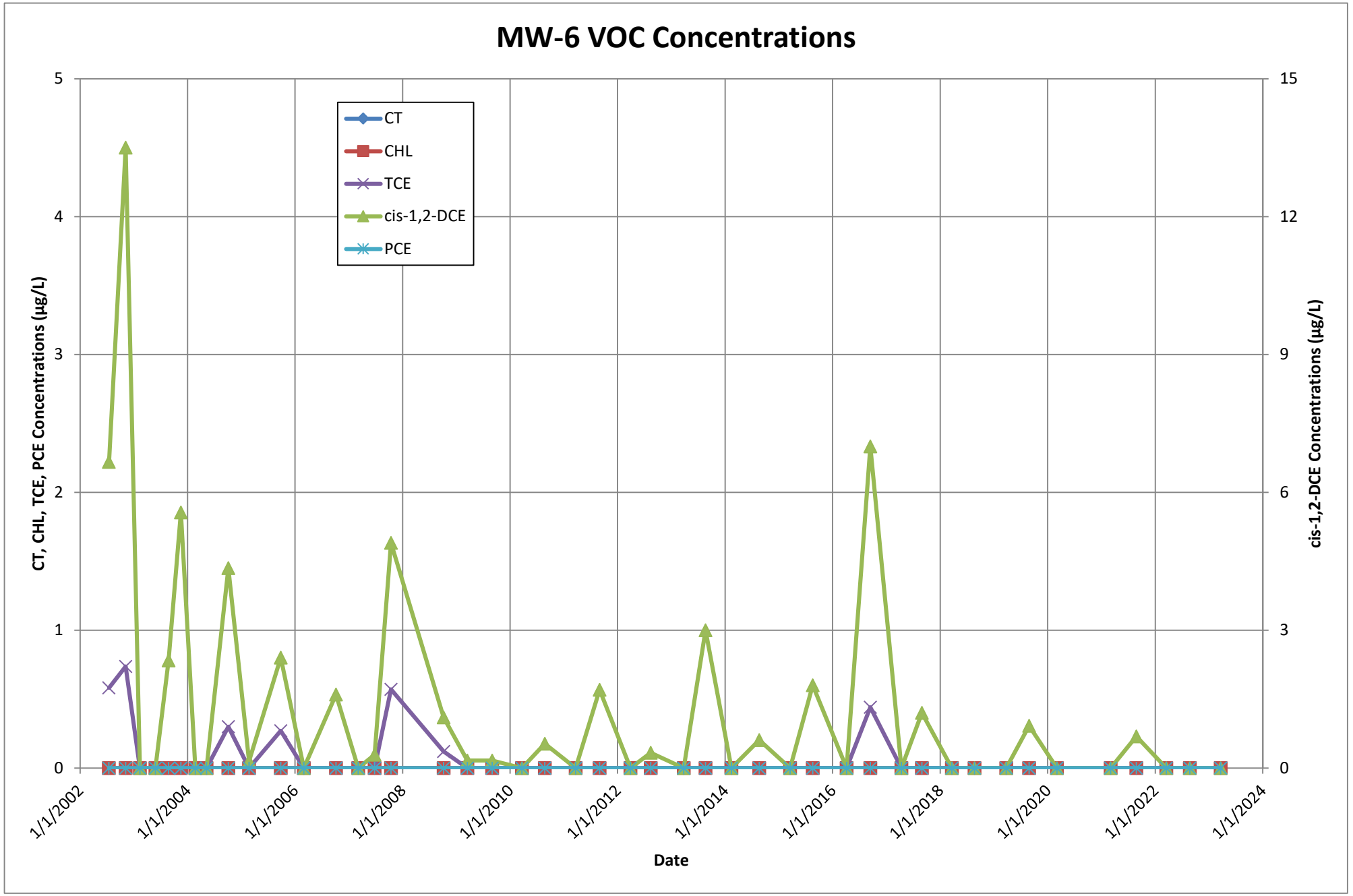
FIGURE 5

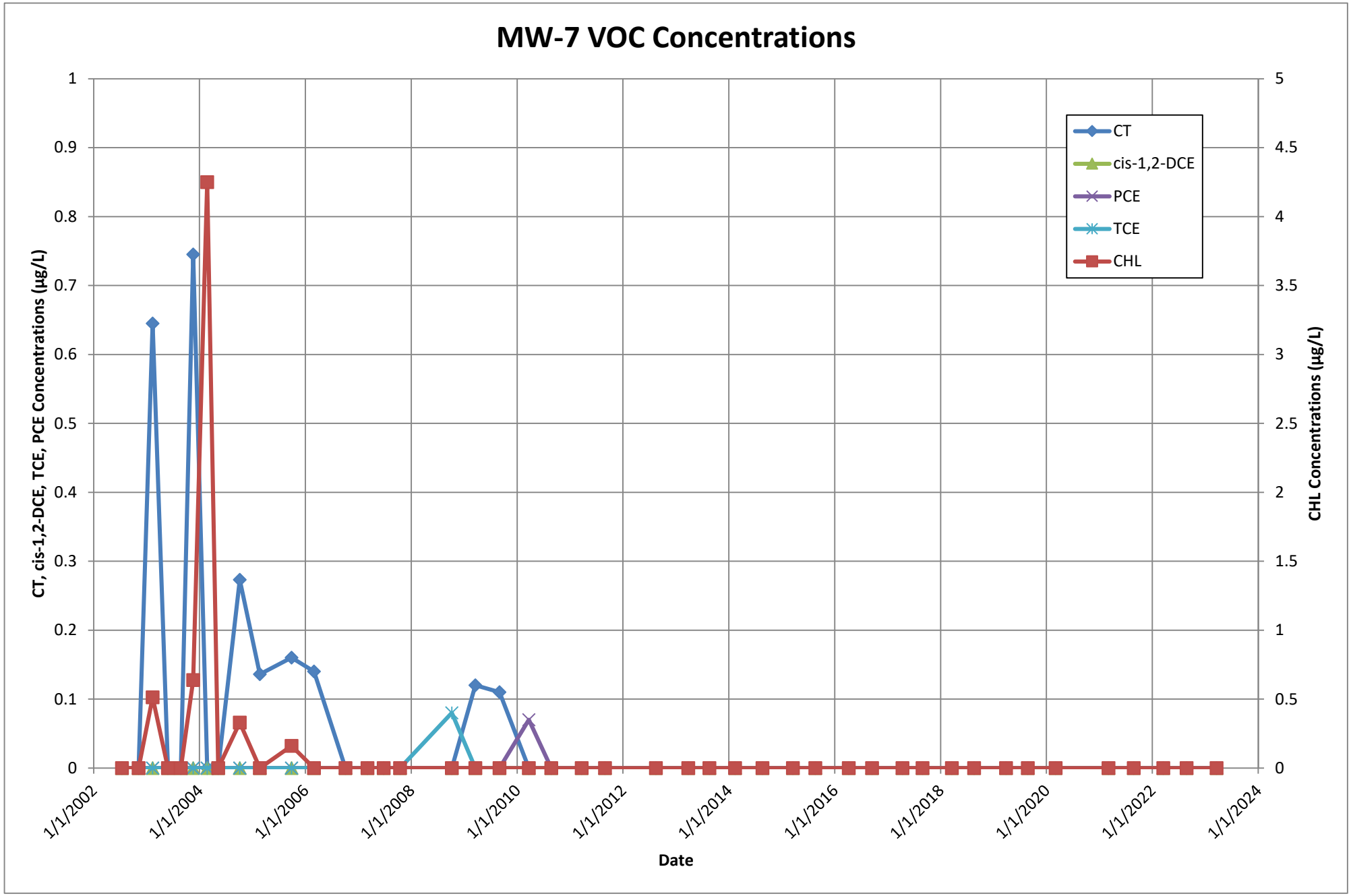
FIGURE 6

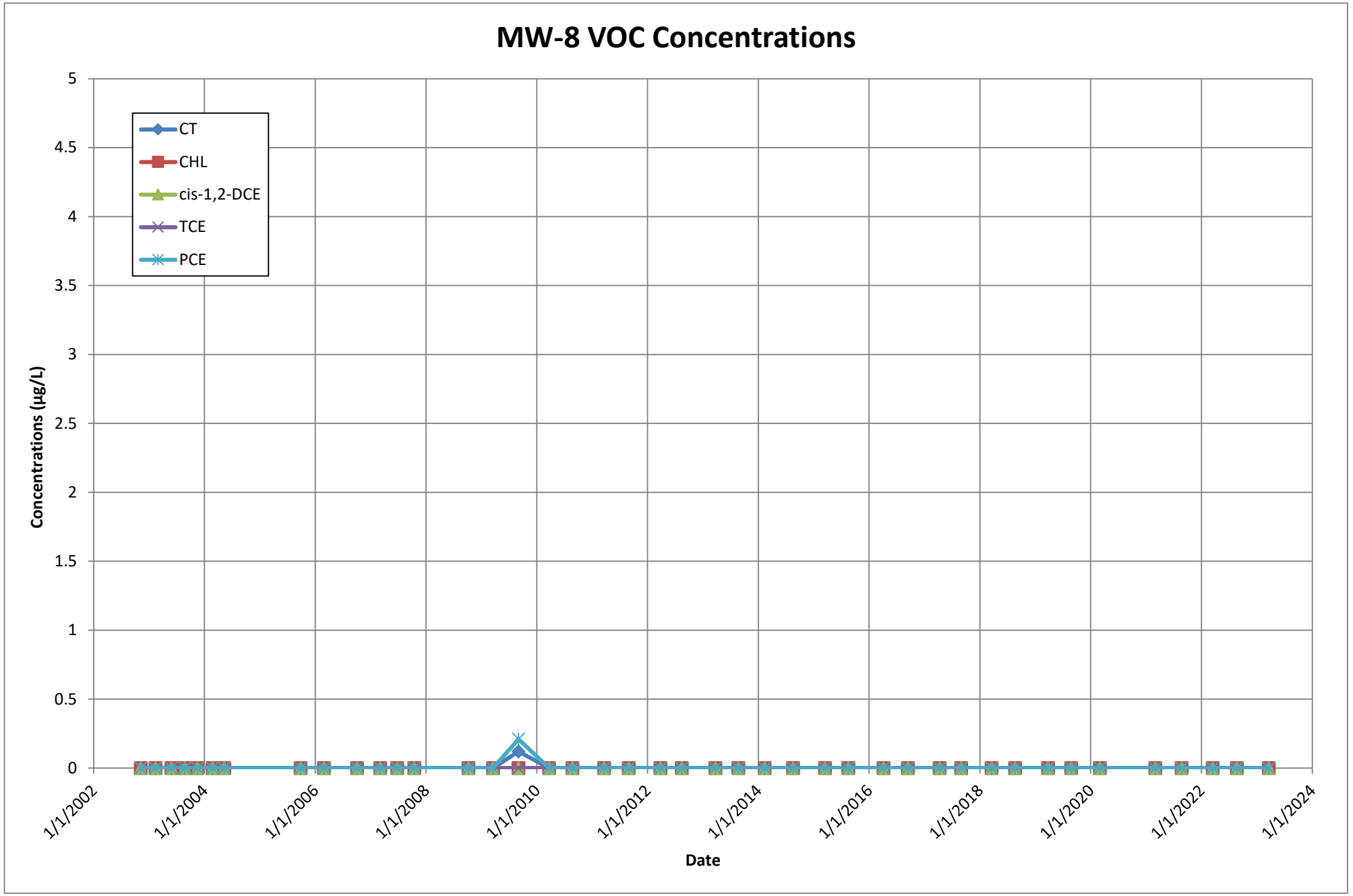

MW-3 VOC Concentrations
PCE
CHL
cis-1,2-DCE
TCE
CT
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

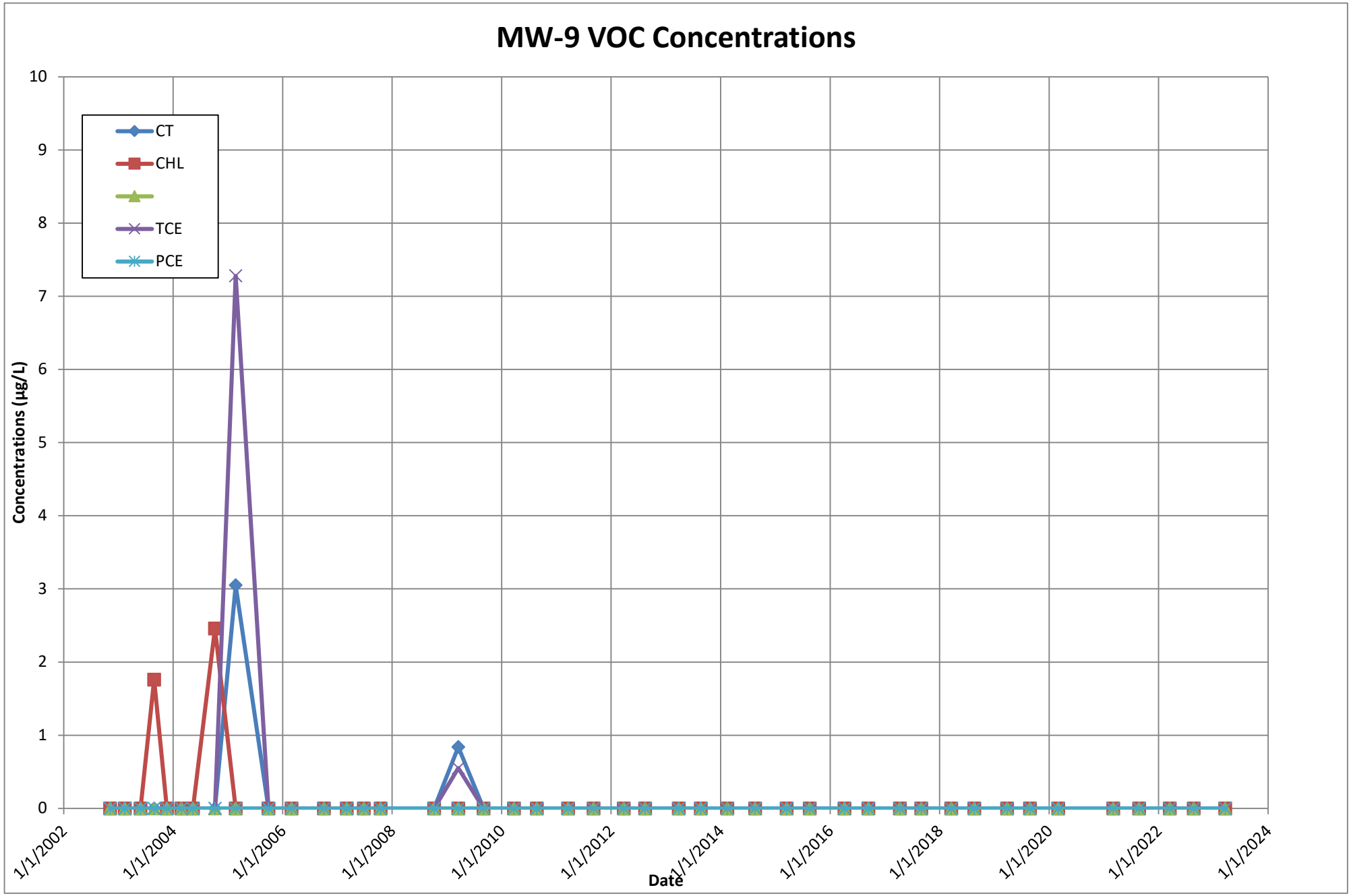

MW-4 VOC Concentrations
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

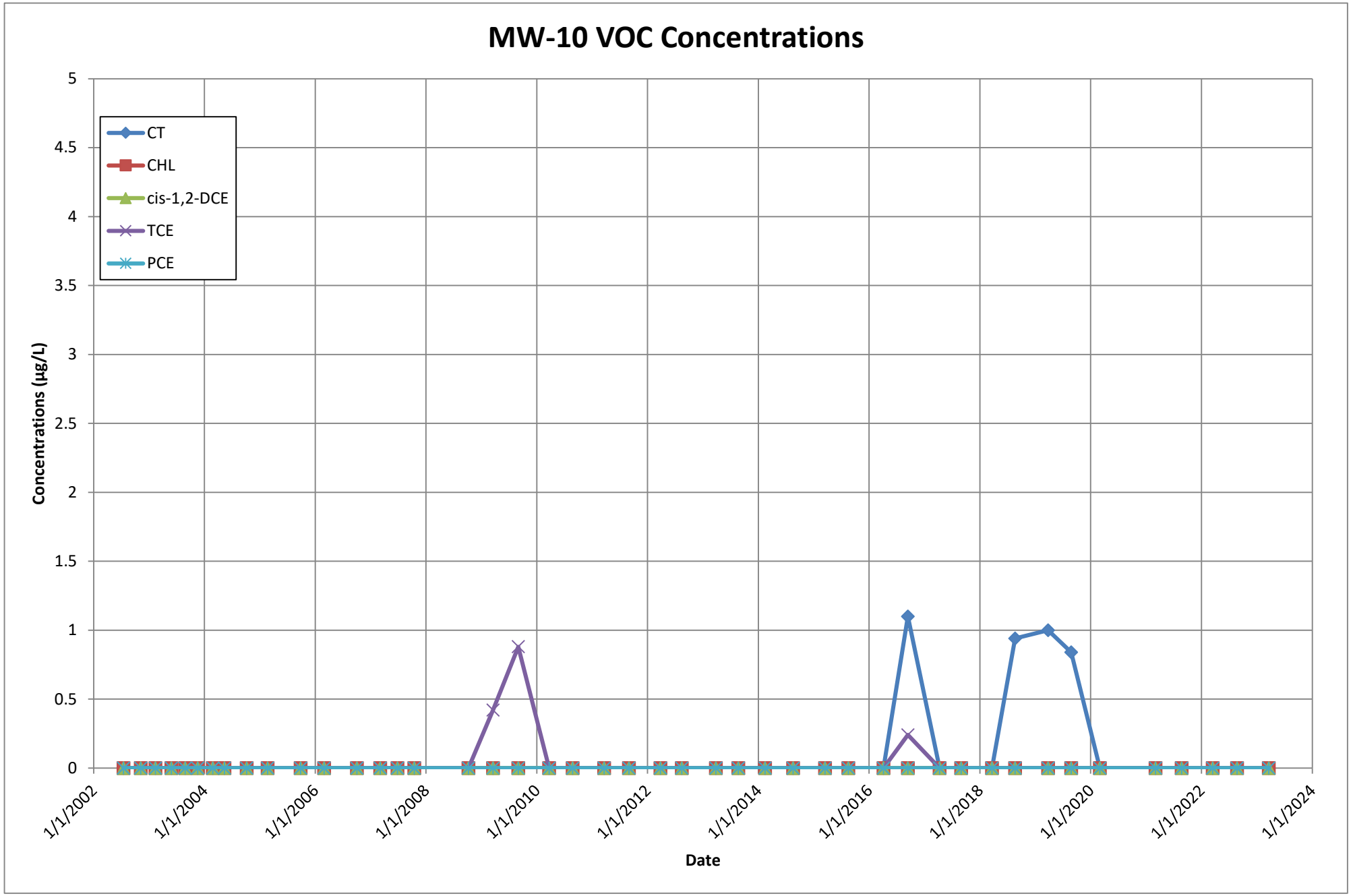

MW-5 VOC Concentrations
CHL
cis-1,2-DCE
TCE
PCE
CT
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
3
6
9
12
15
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

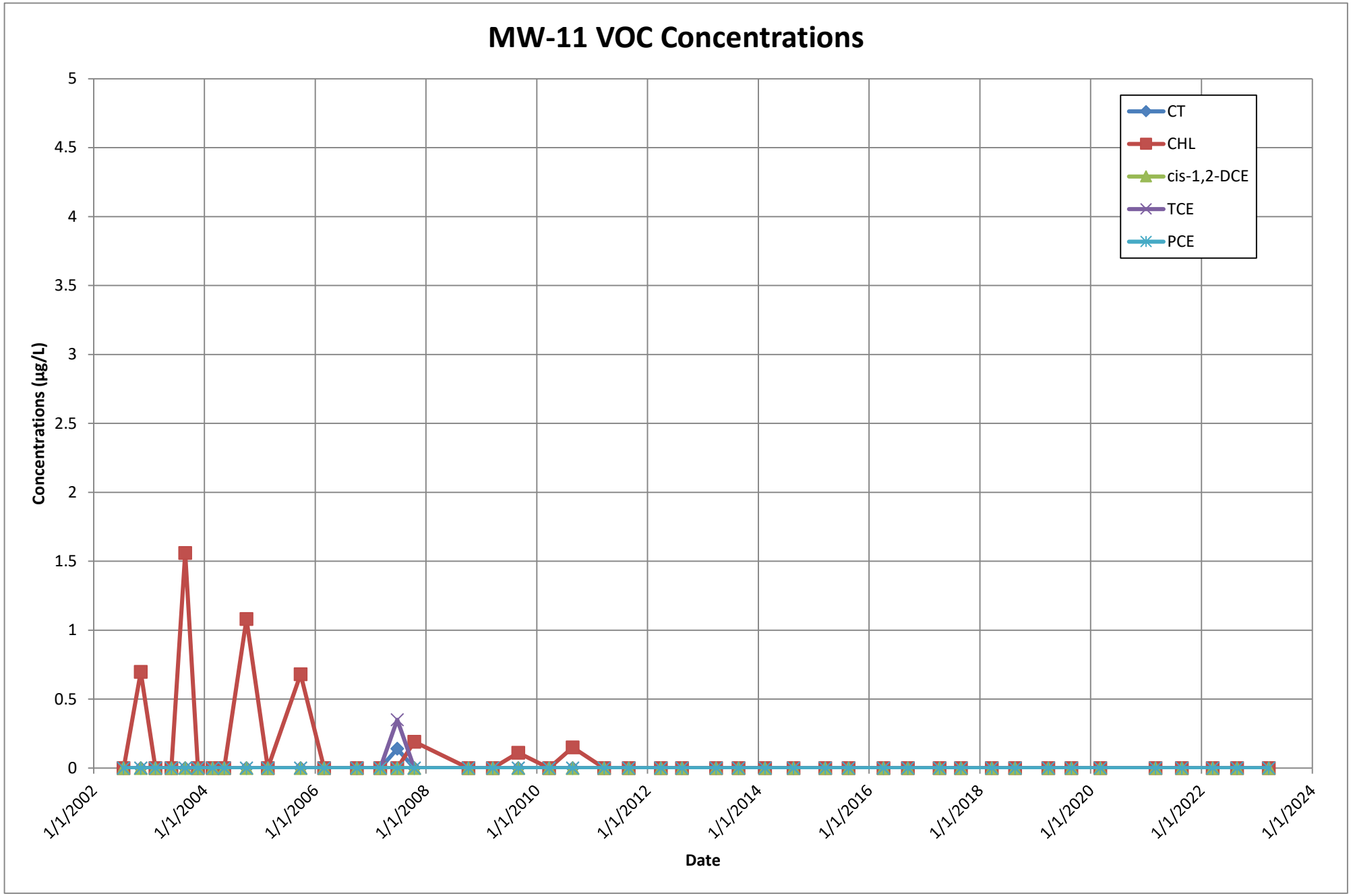

MW-6 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE, PCE Concentrations (µg/L)
cis-1,2-DCE Concentrations (µg/L)
0
1
2
3
4
5
0
3
6
9
12
15
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

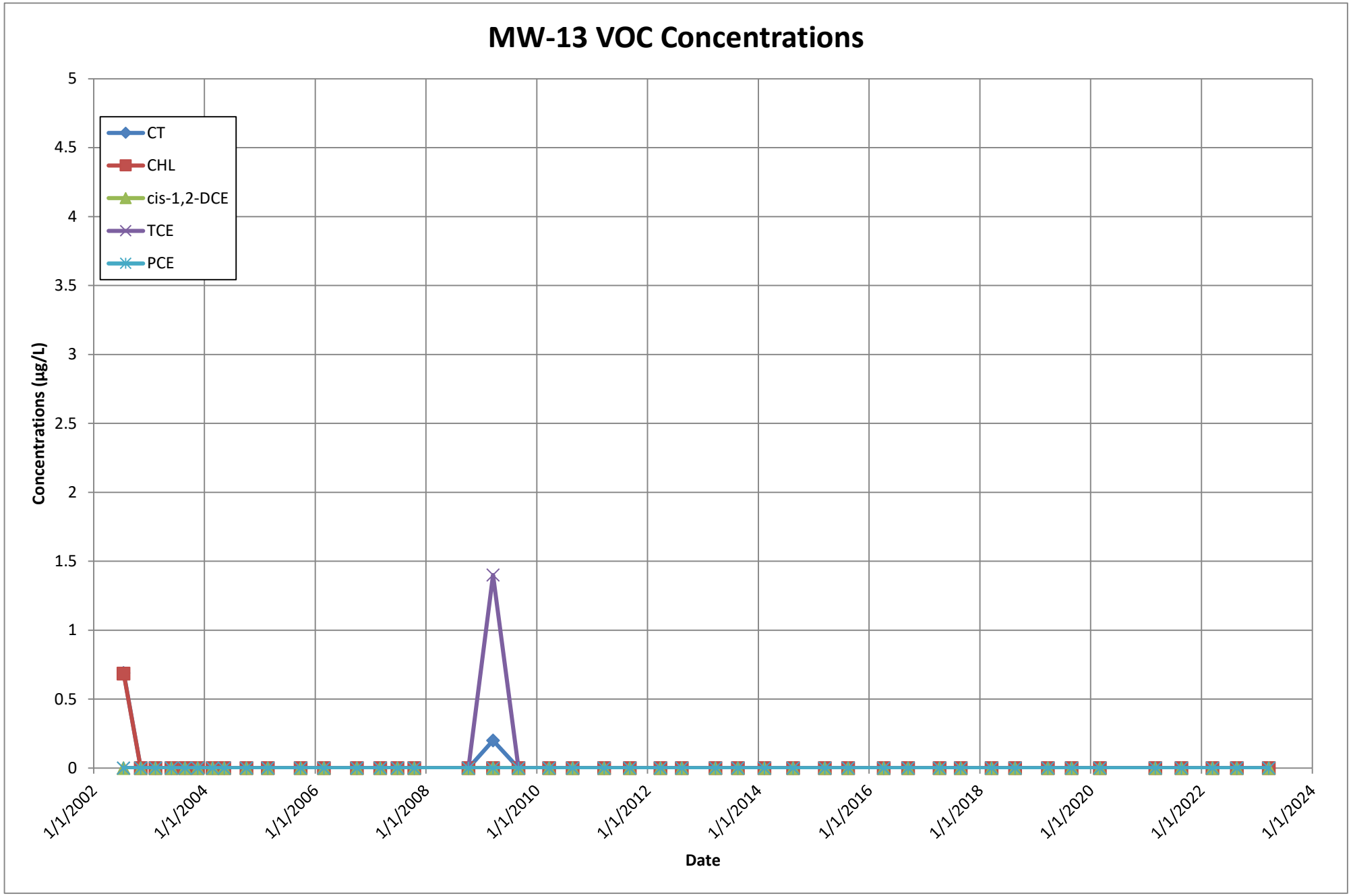

MW-7 VOC Concentrations
CT, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CHL Concentrations (µg/L)
Date
CT
cis-1,2-DCE
PCE
TCE
CHL
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

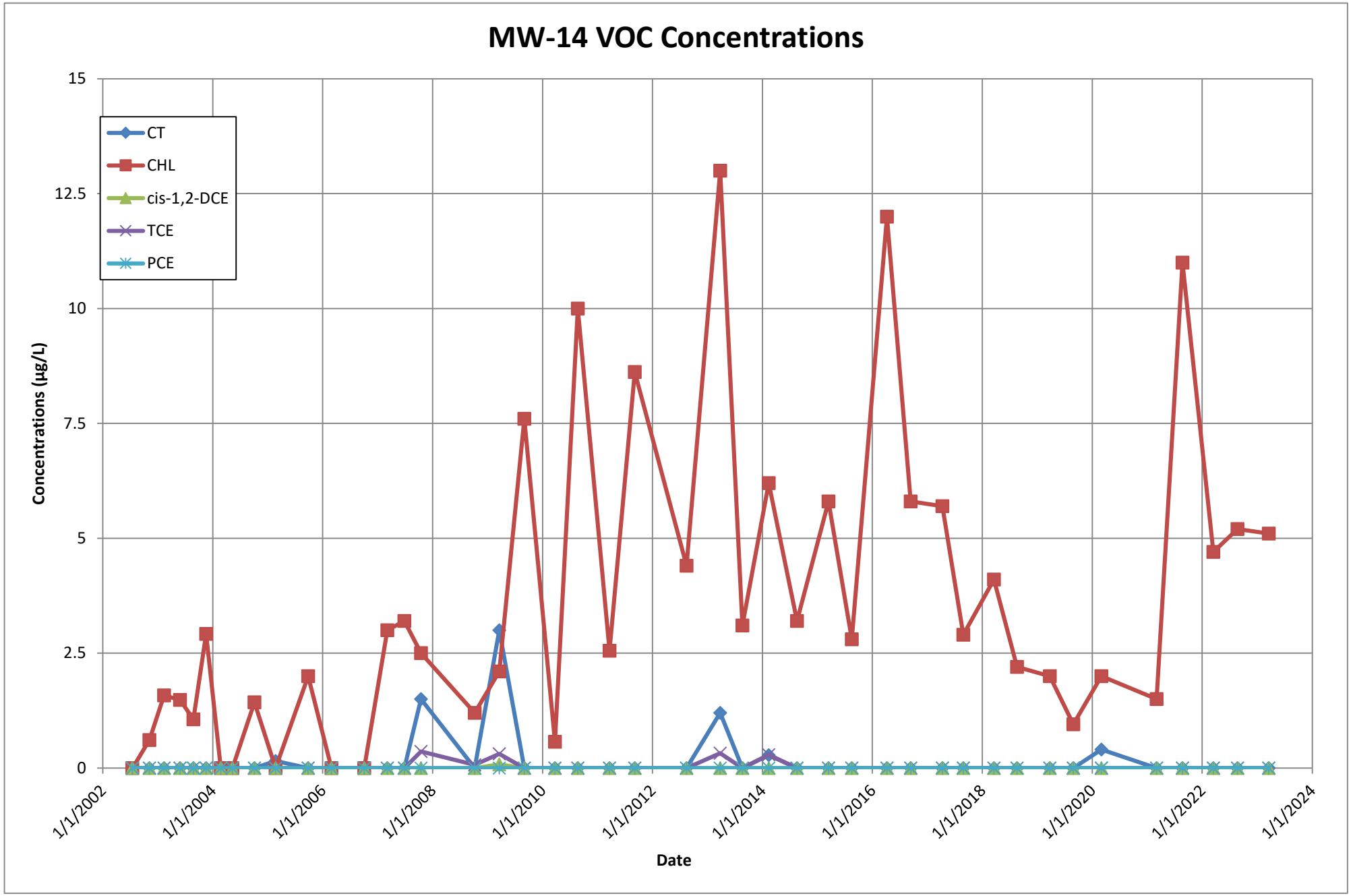

MW-8 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

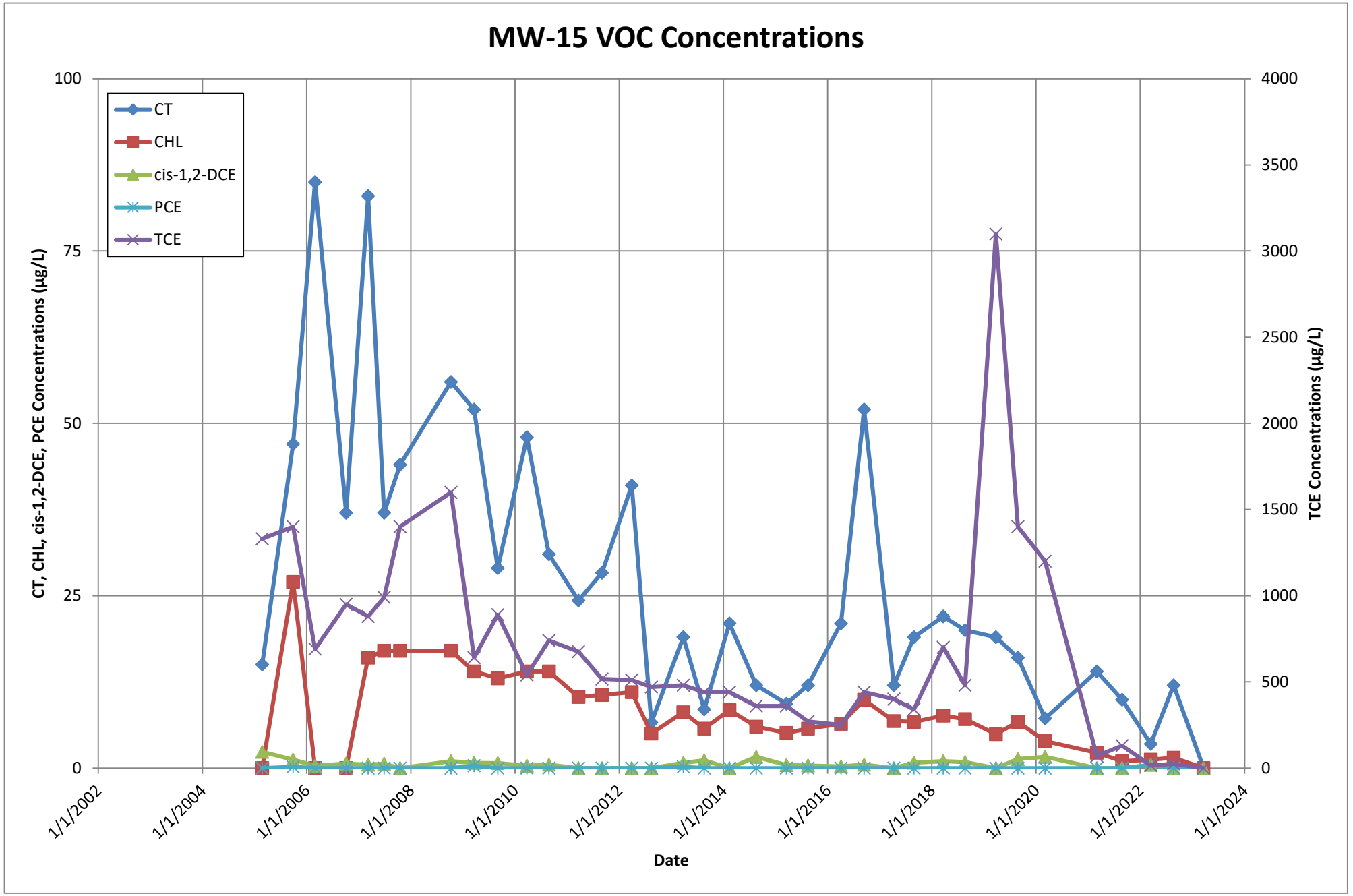

MW-9 VOC Concentrations
CT
CHL
TCE
PCE
Concentrations (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

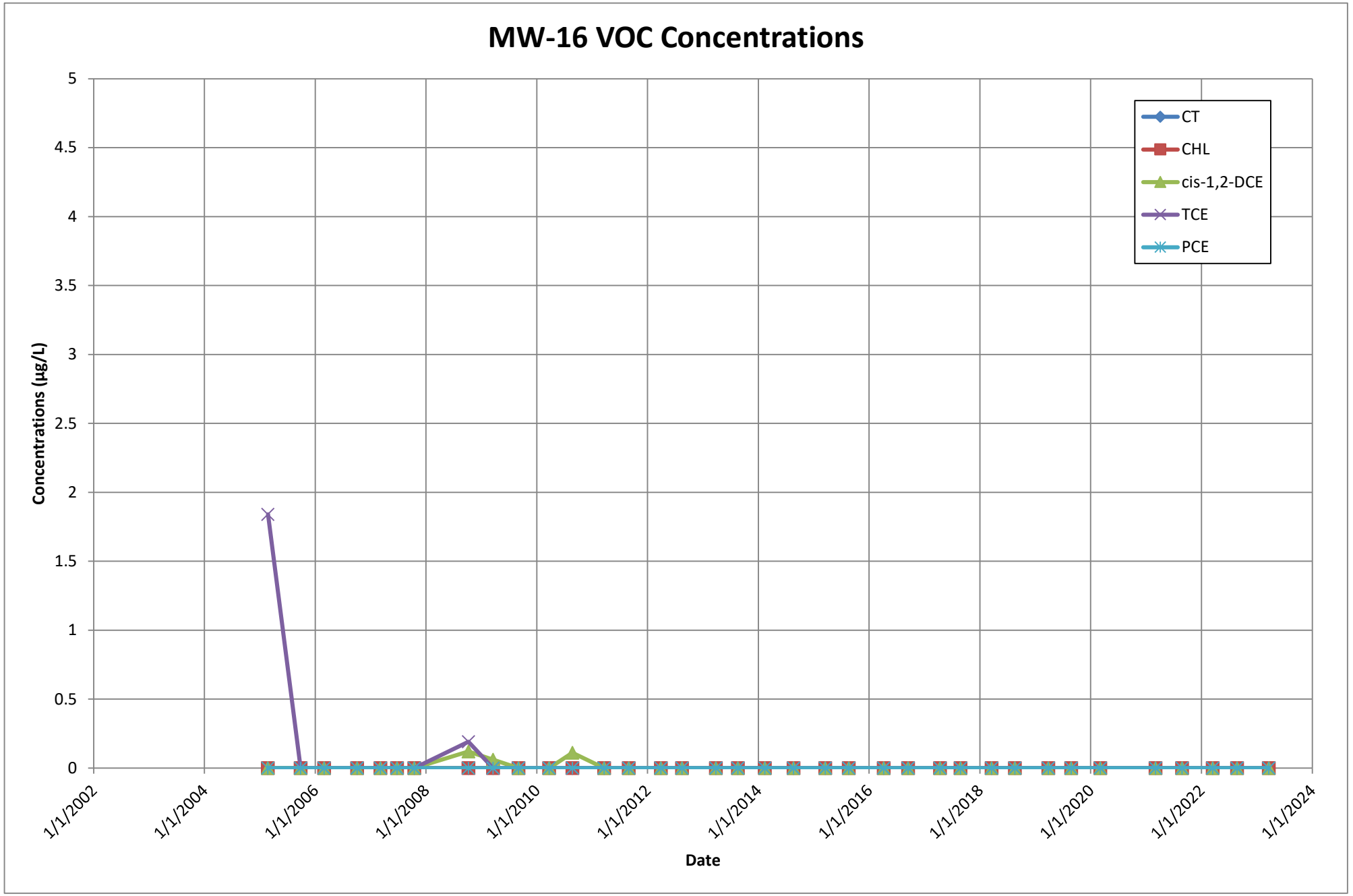

MW-10 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

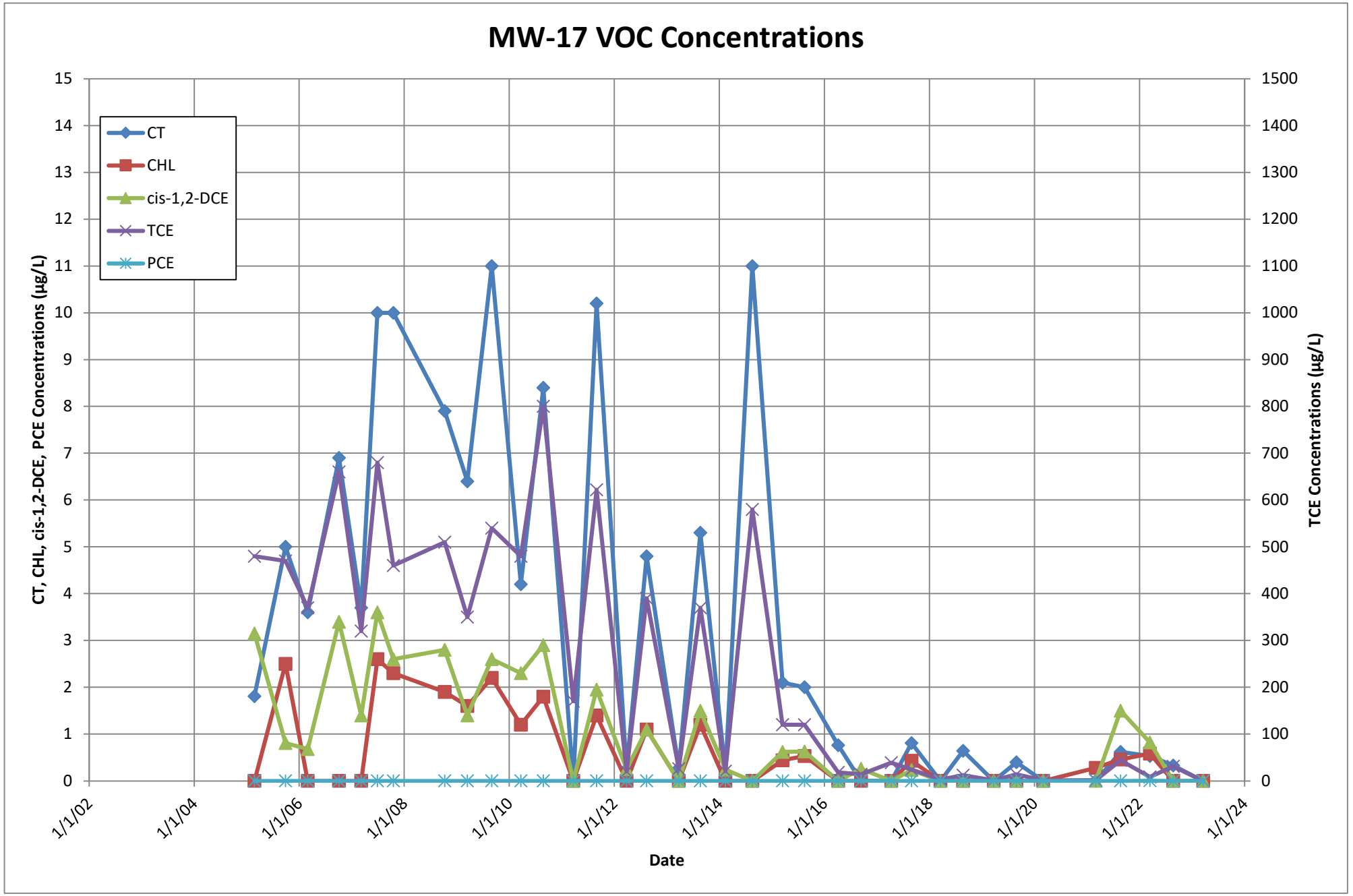

MW-11 VOC Concentrations
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

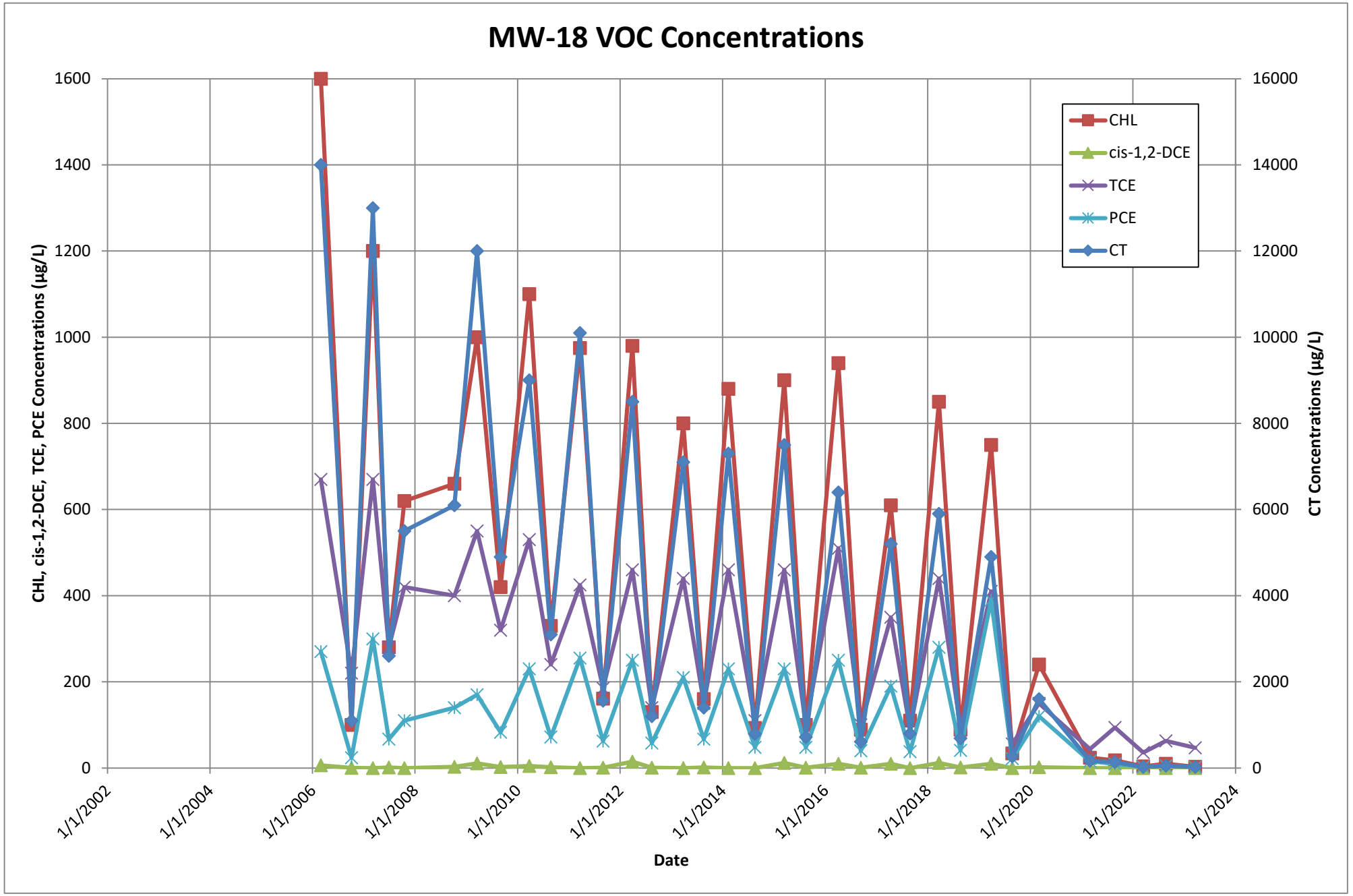

MW-13 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

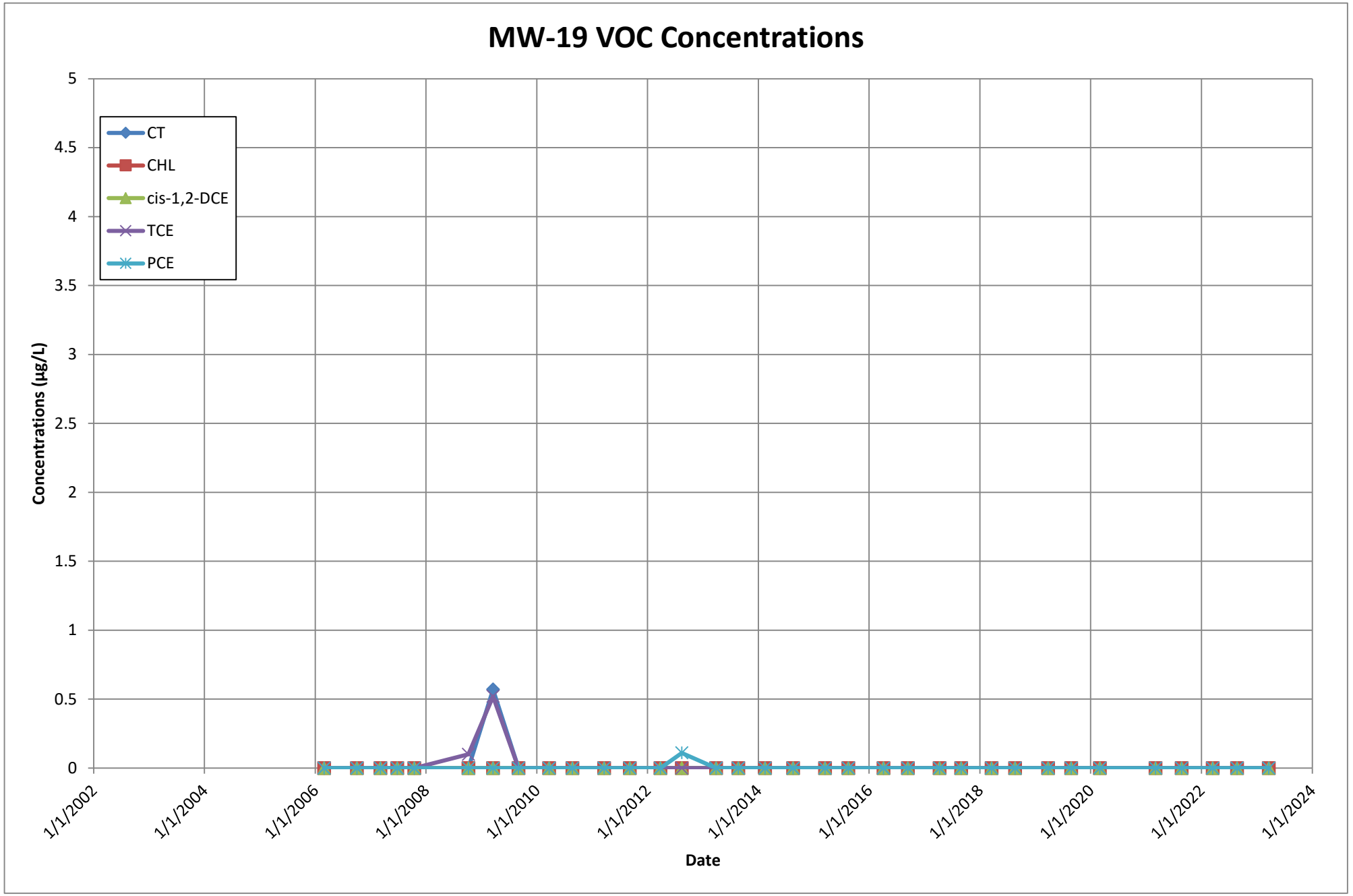

MW-14 VOC Concentrations
15
12.5
10
7.5
5
2.5
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

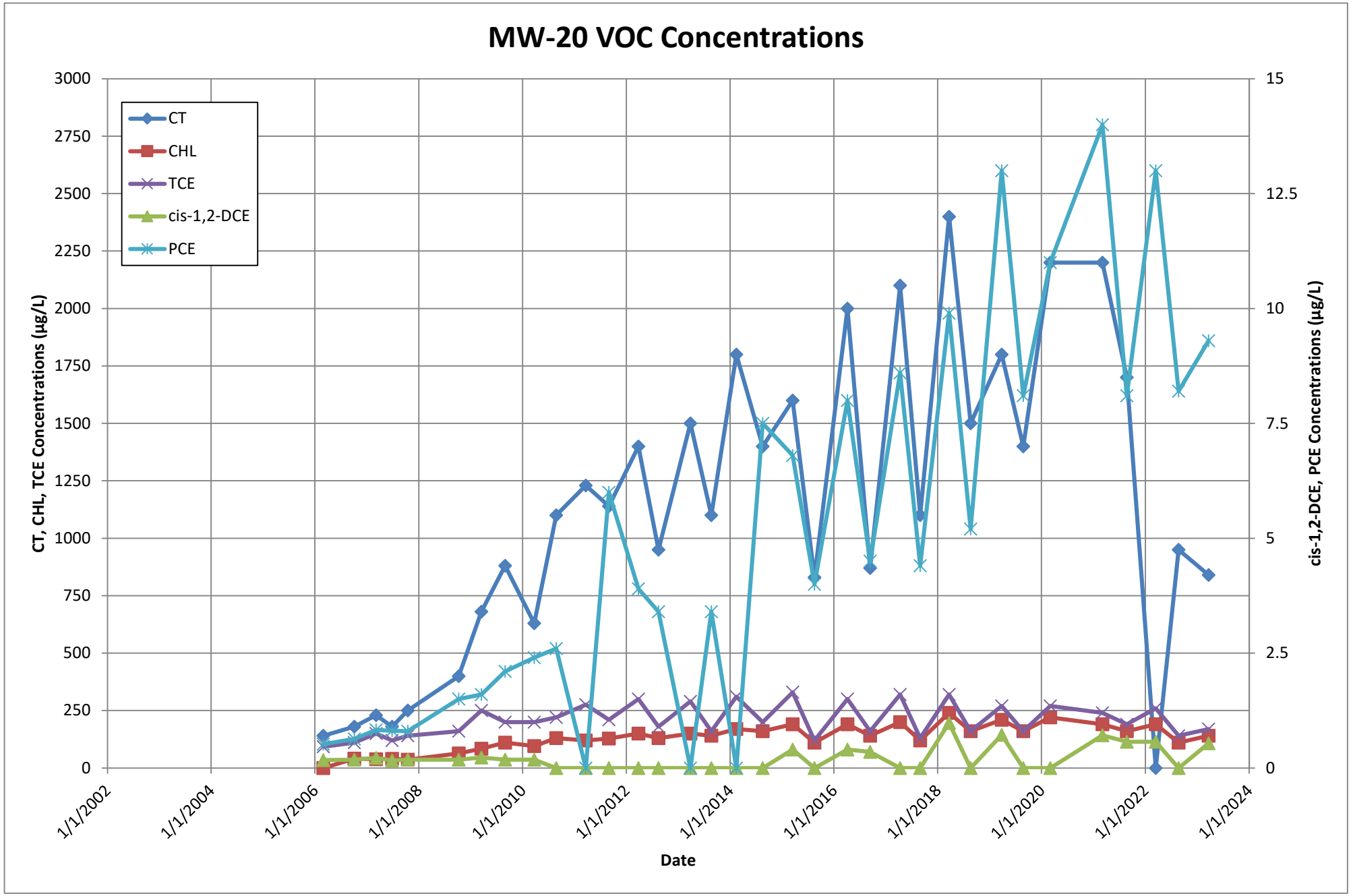

MW-15 VOC Concentrations
CT
CHL
cis-1,2-DCE
PCE
TCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
100
75
50
25
0
4000
3500
3000
2500
2000
1500
1000
500
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

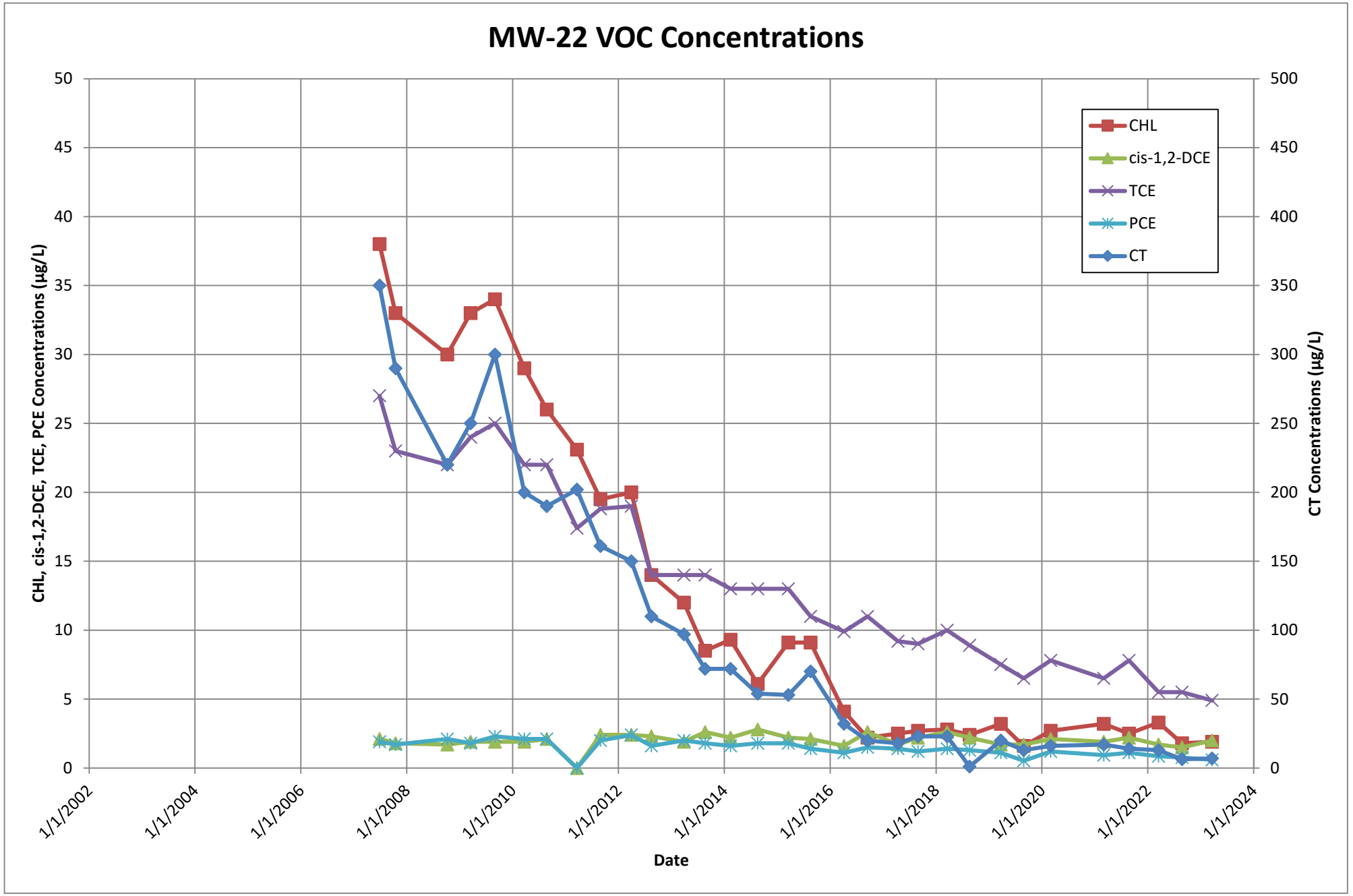

MW-16 VOC Concentrations
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

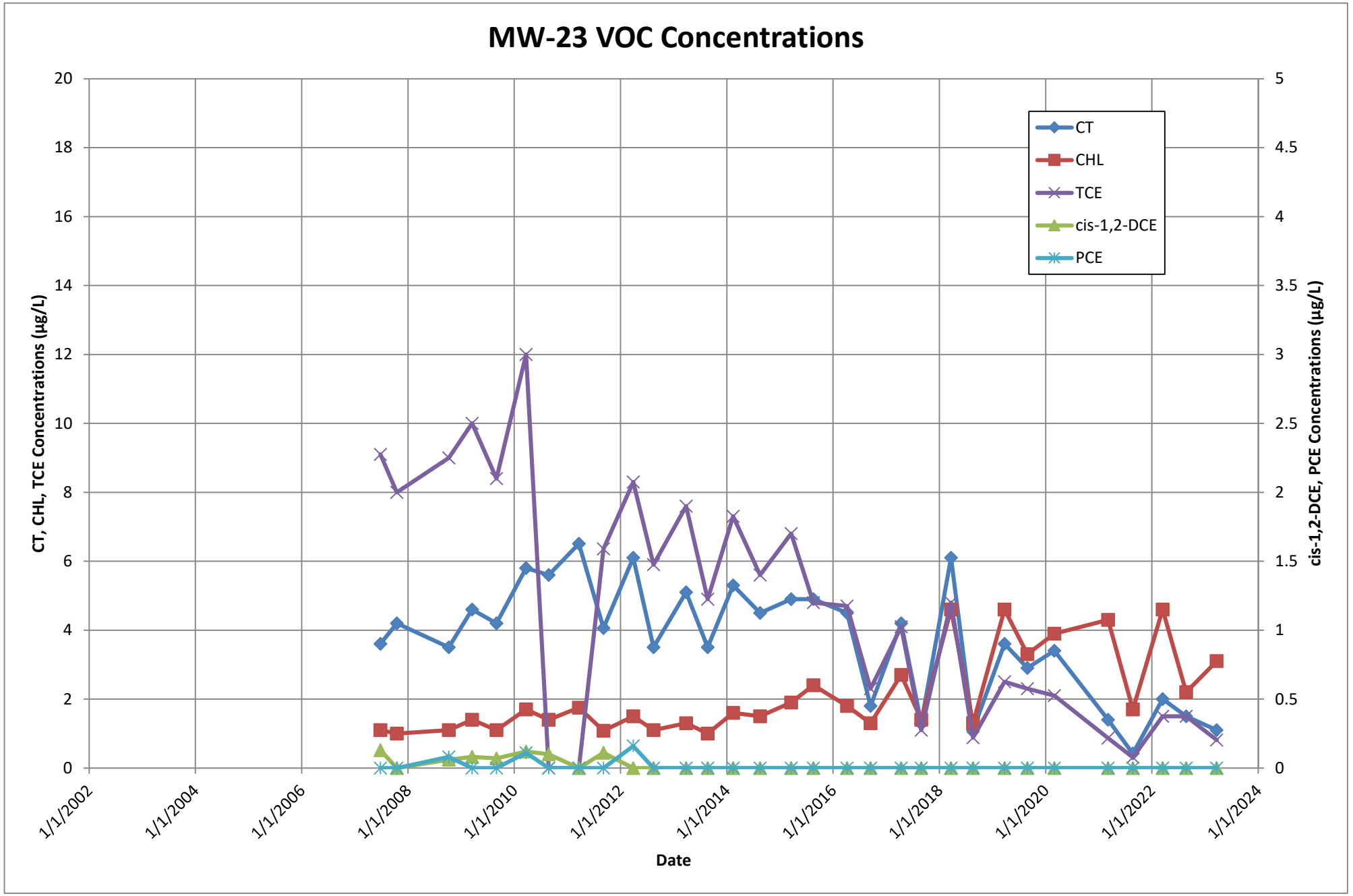

MW-17 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1/1/02
1/1/04
1/1/06
1/1/08
1/1/10
1/1/12
1/1/14
1/1/16
1/1/18
1/1/20
1/1/22
1/1/24

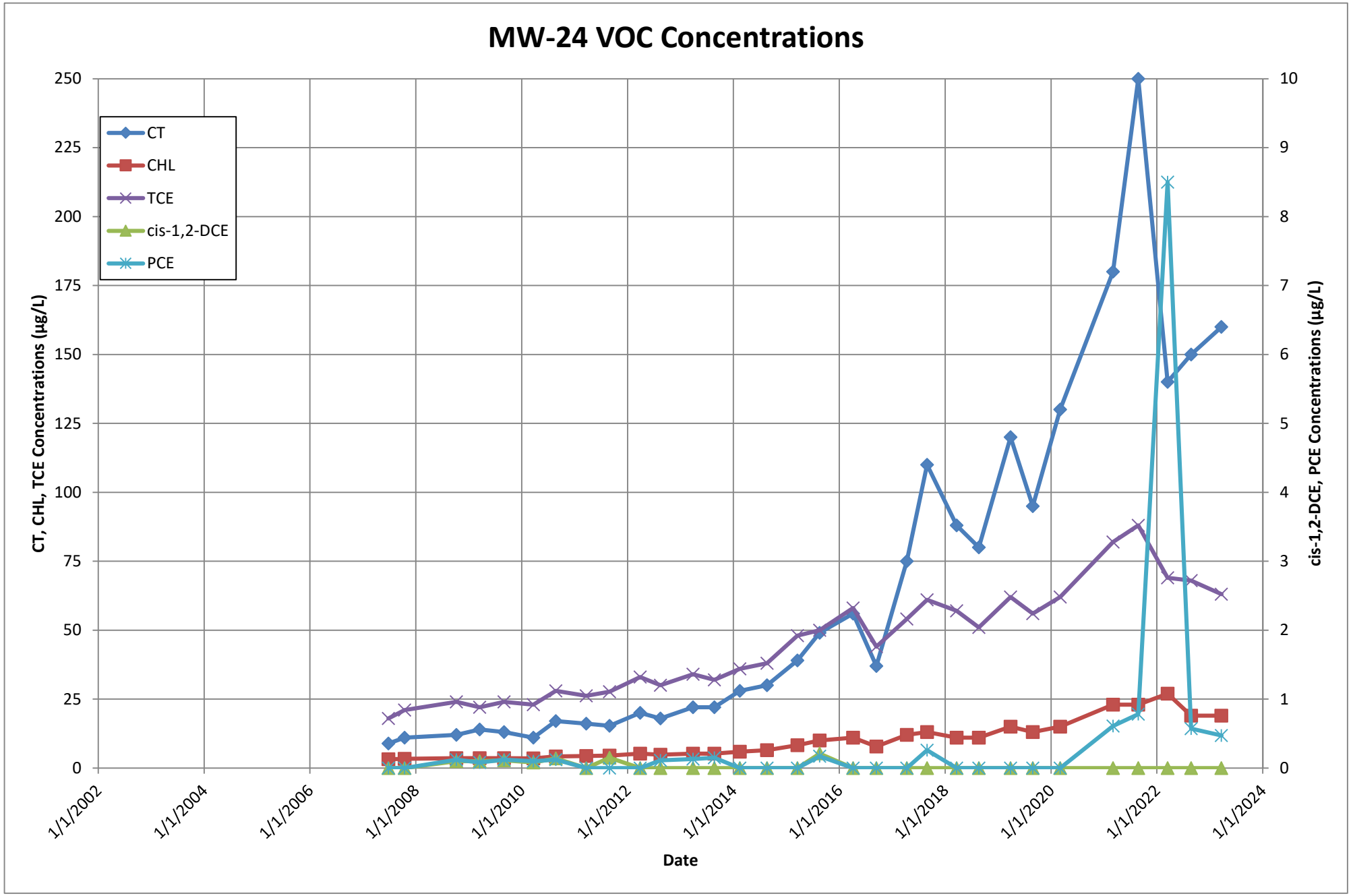

MW-18 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
0
200
400
600
800
1000
1200
1400
1600
2000
4000
6000
8000
10000
12000
14000
16000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

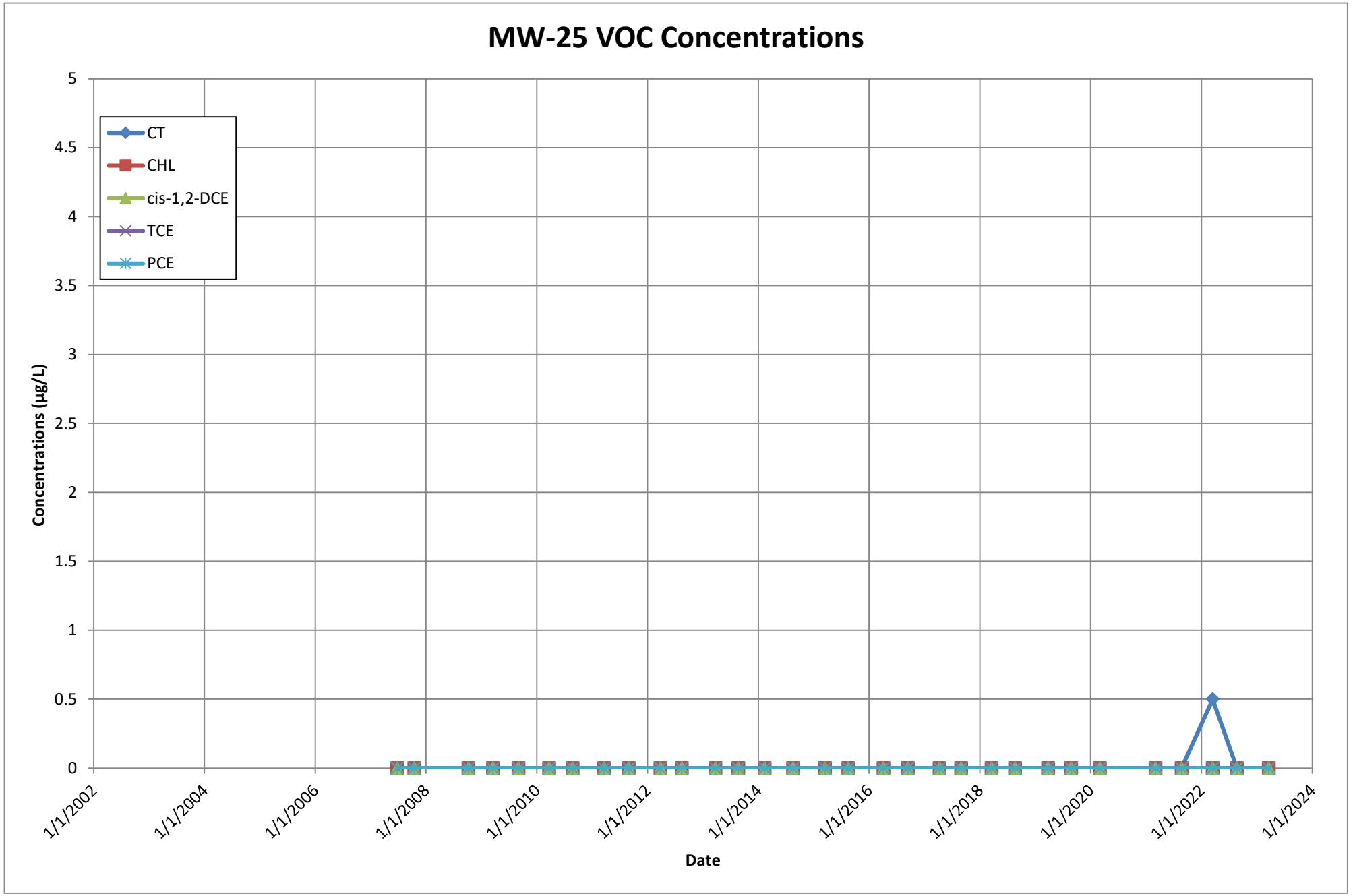

MW-19 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

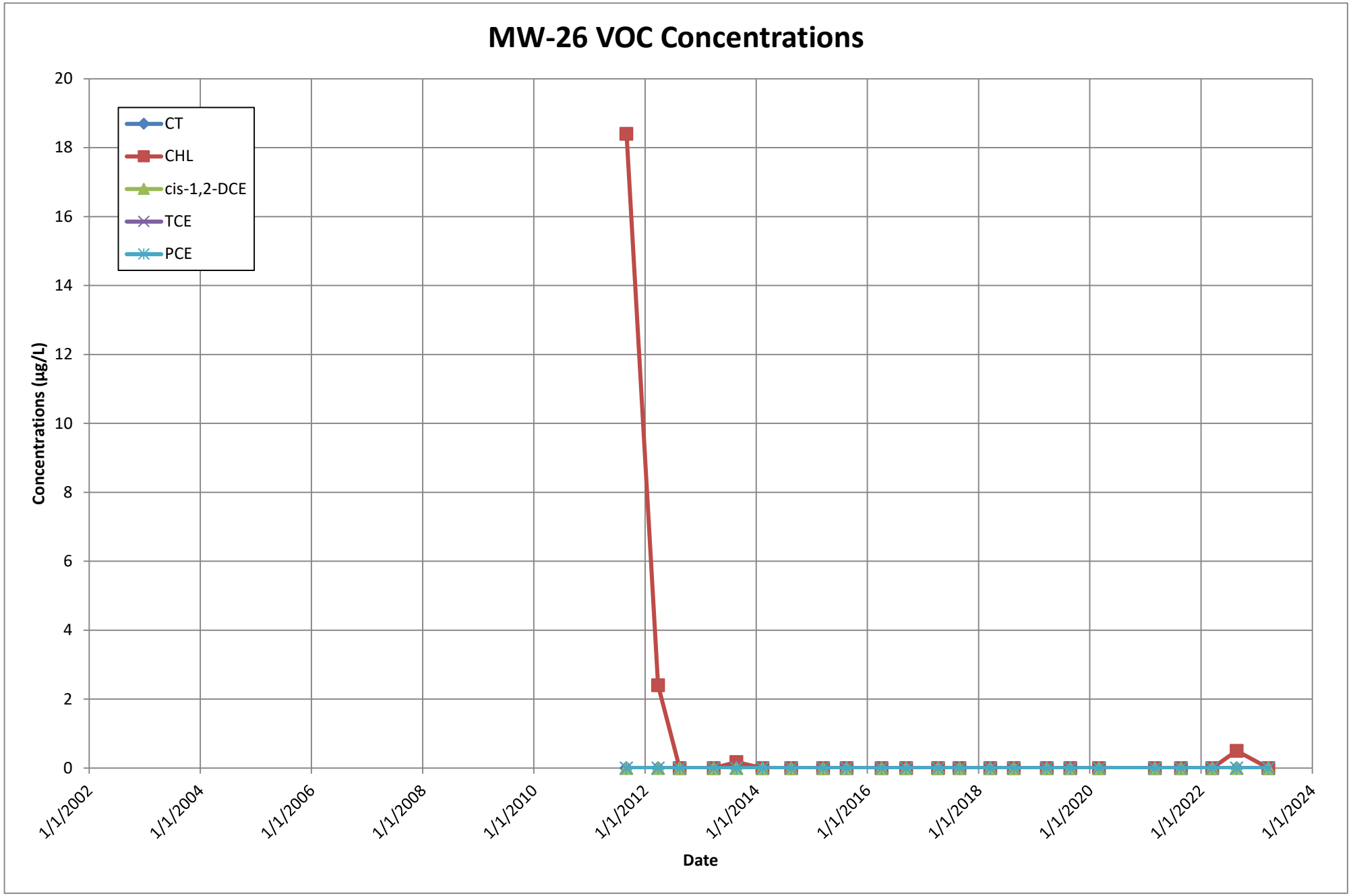

MW-20 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
3000
2750
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
15
12.5
10
7.5
5
2.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

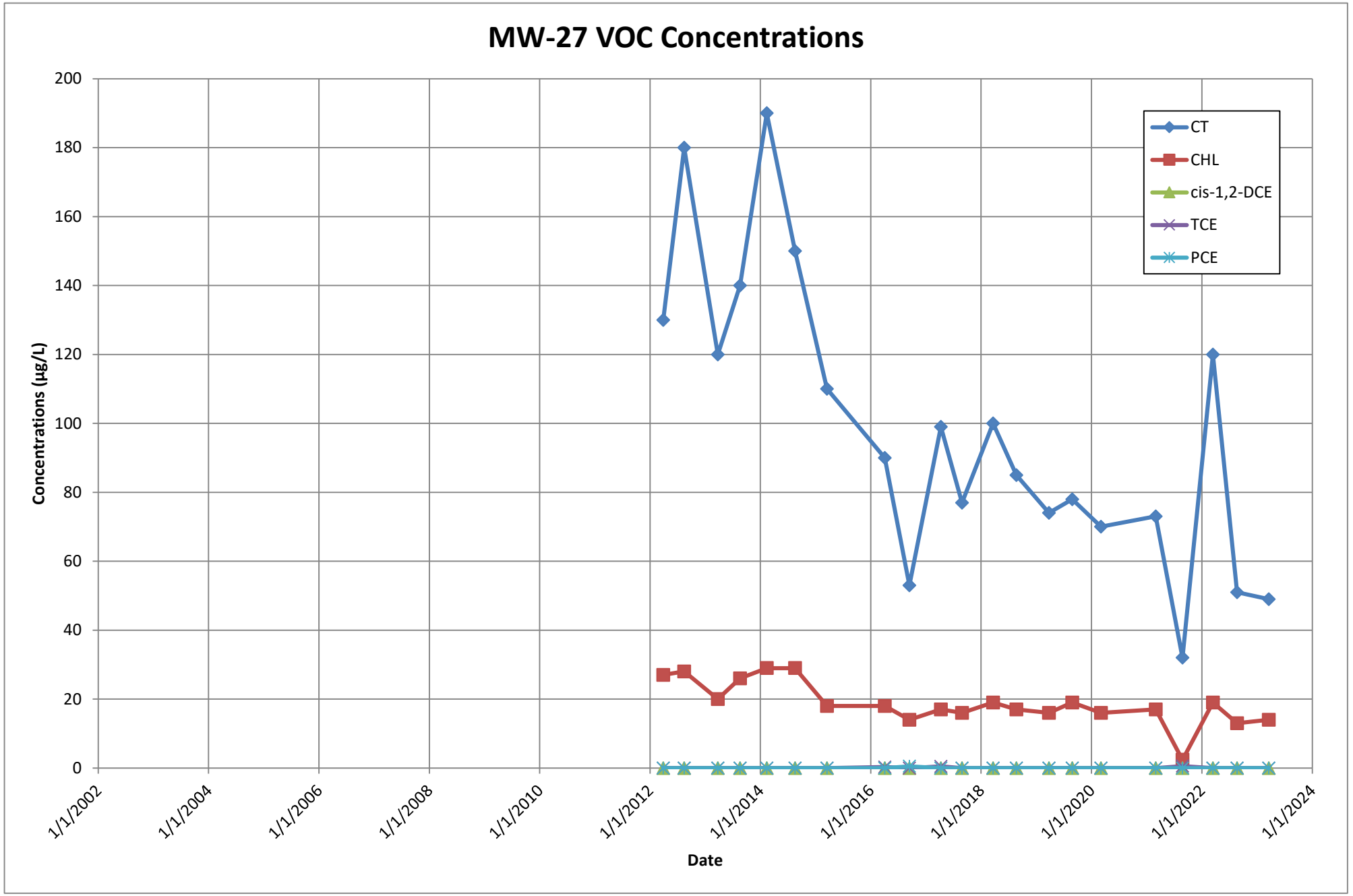

MW-22 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
0
5
10
15
20
25
30
35
40
45
50
0
50
100
150
200
250
300
350
400
450
500
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

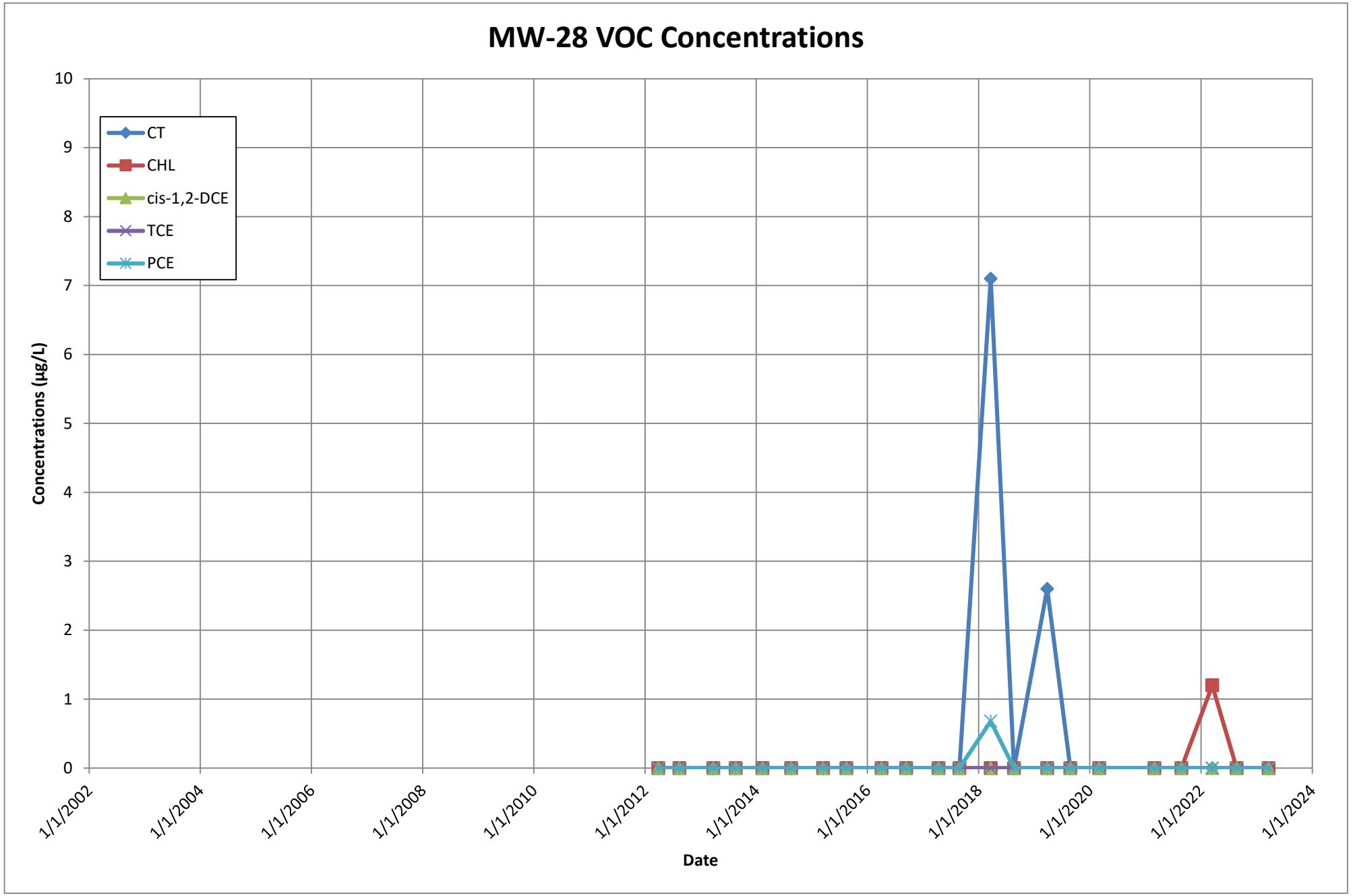

MW-23 VOC Concentrations
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
CT
CHL
TCE
cis-1,2-DCE
PCE
0
2
4
6
8
10
12
14
16
18
20
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

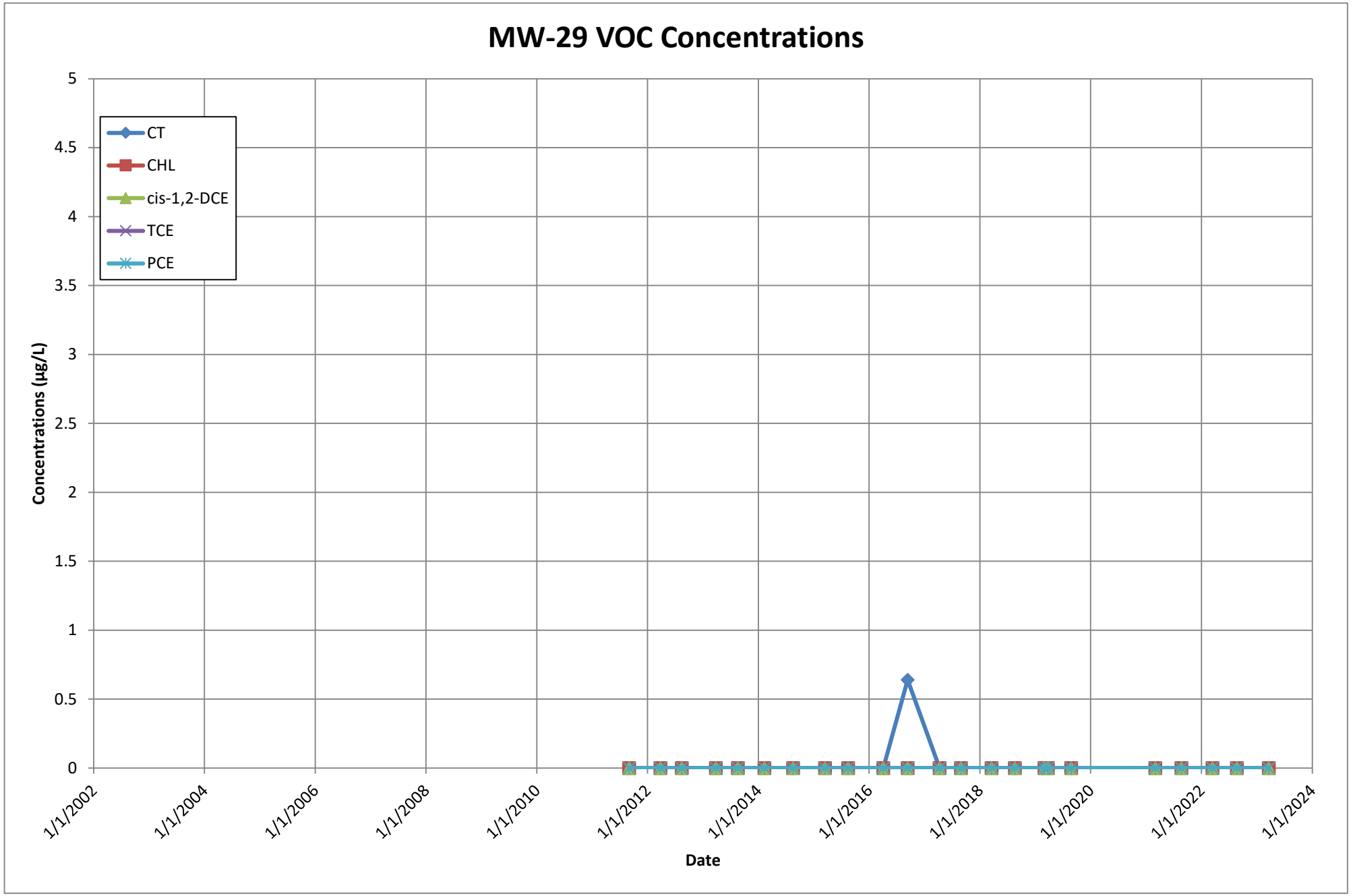

MW-24 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
250
225
200
175
150
125
100
75
50
25
0
10
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024

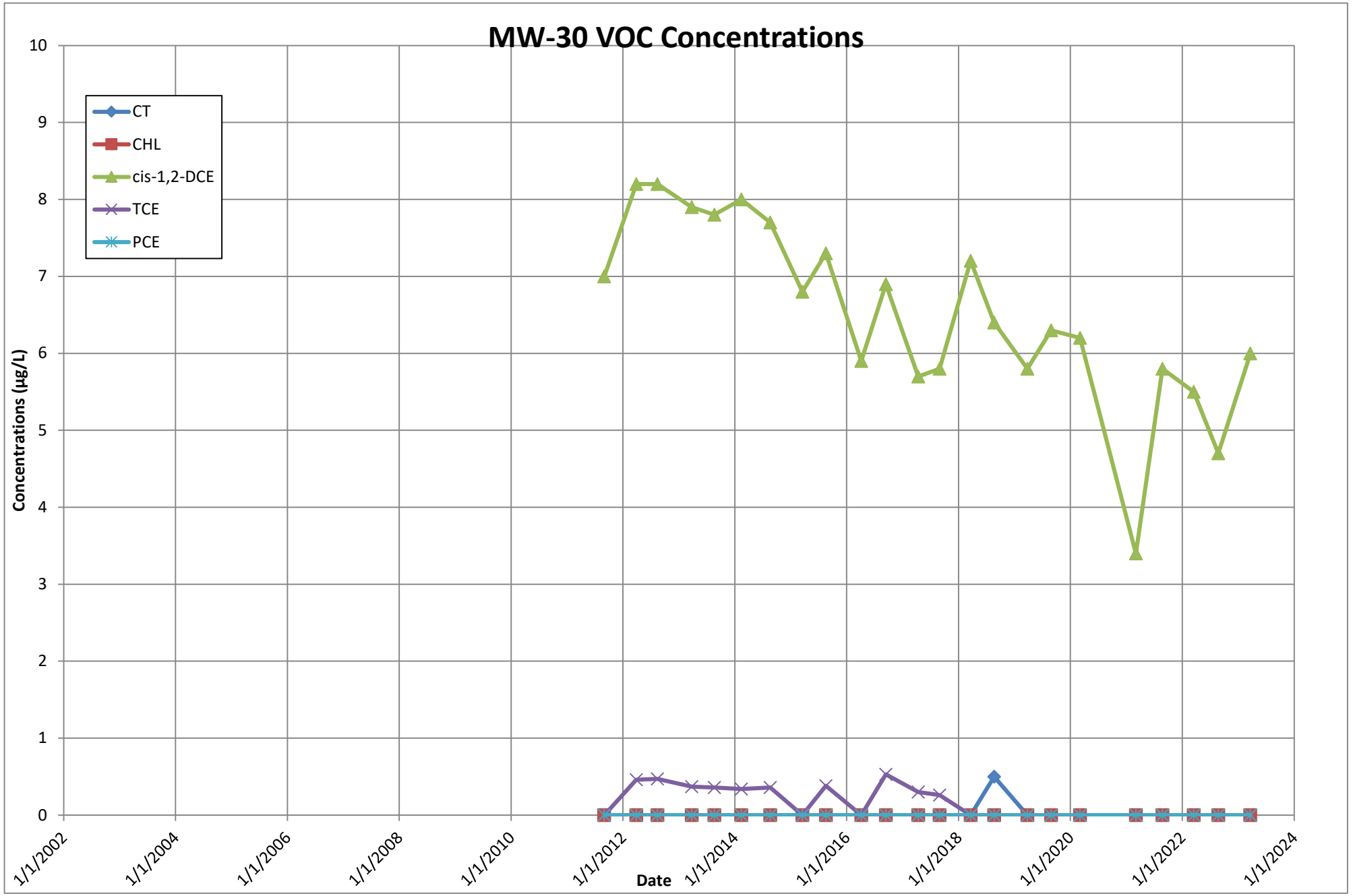

MW-25 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

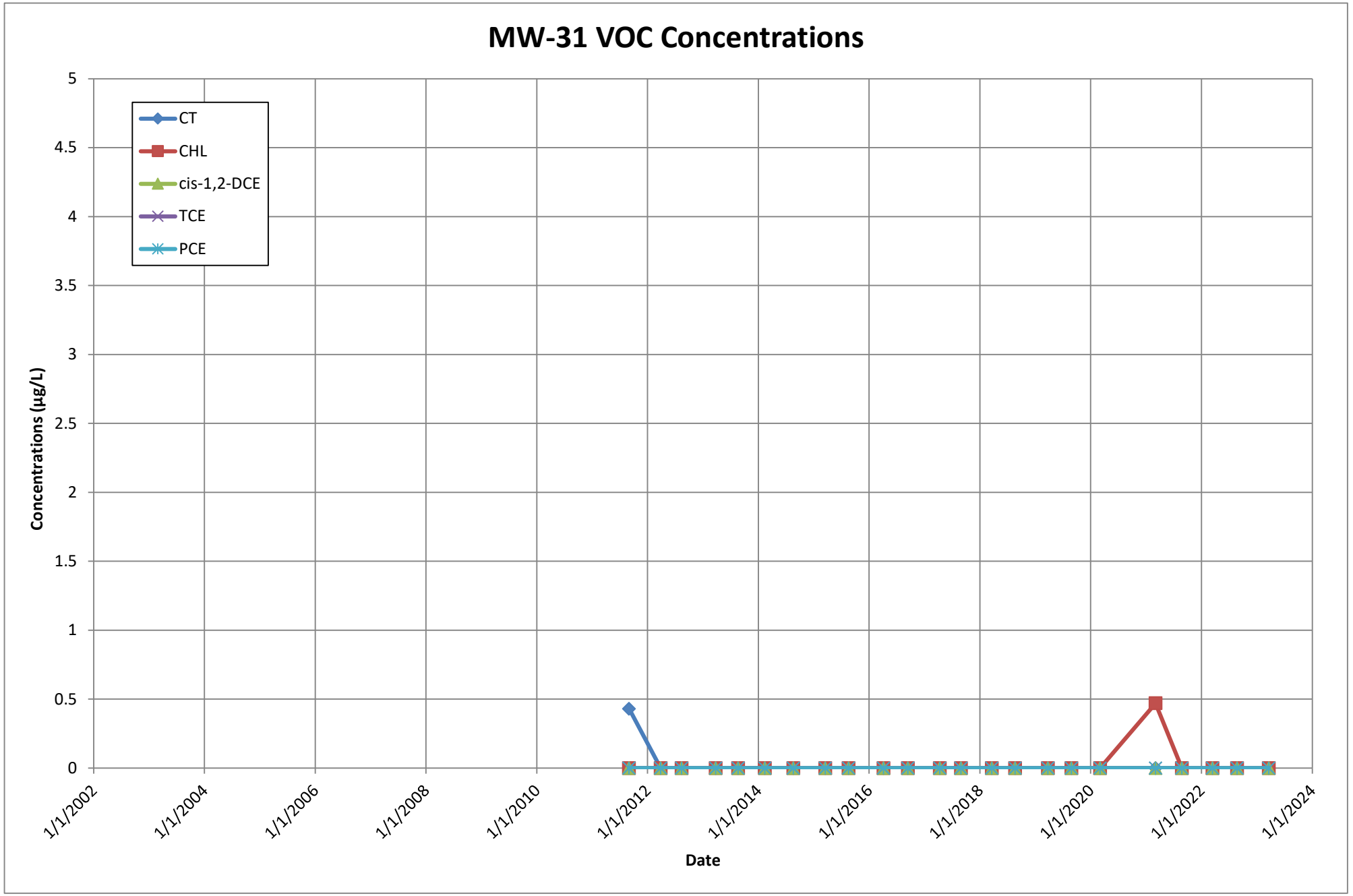

MW-26 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

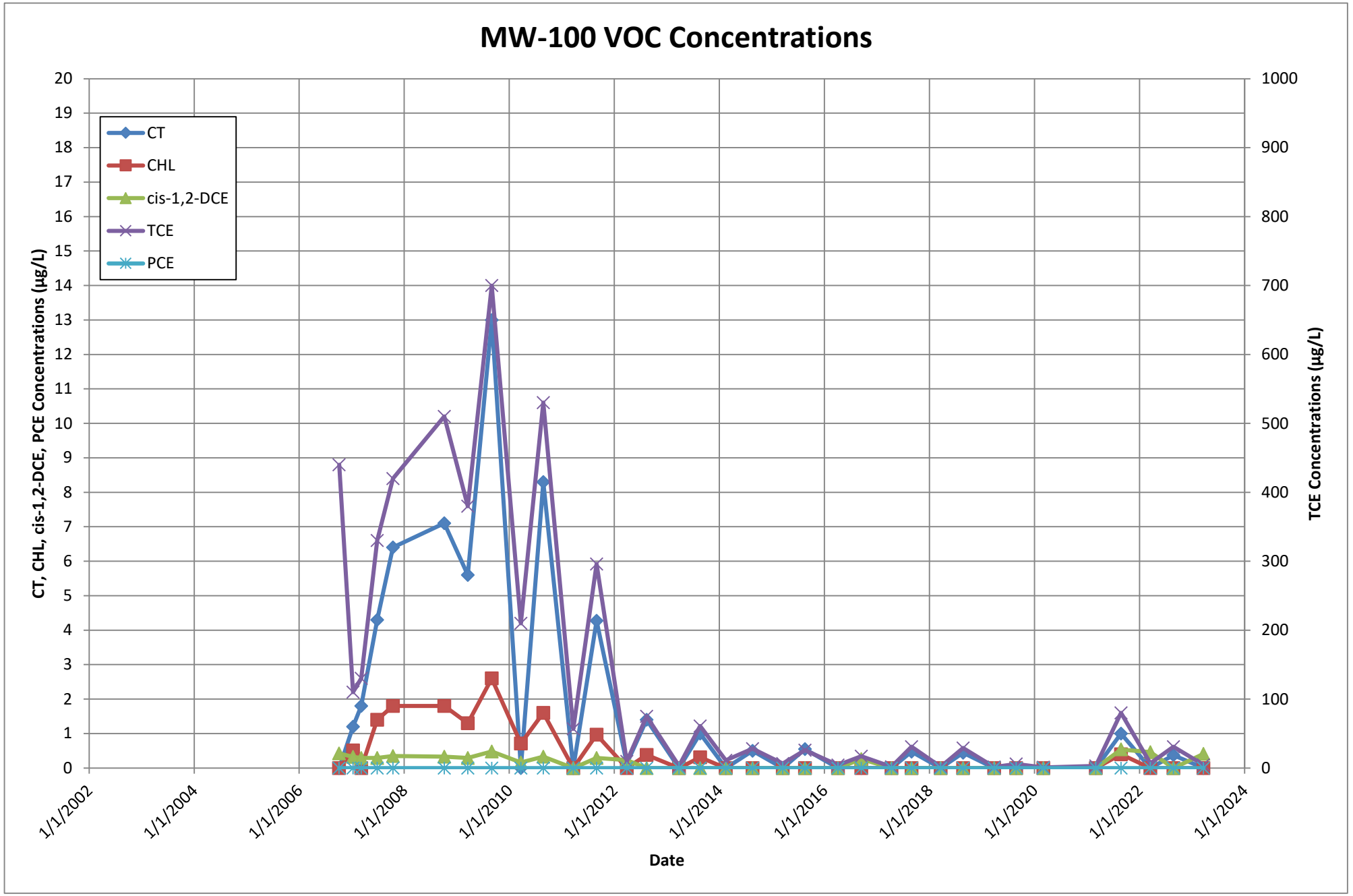

MW-27 VOC Concentrations
Concentrations (µg/L)
200
180
160
140
120
100
80
60
40
20
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

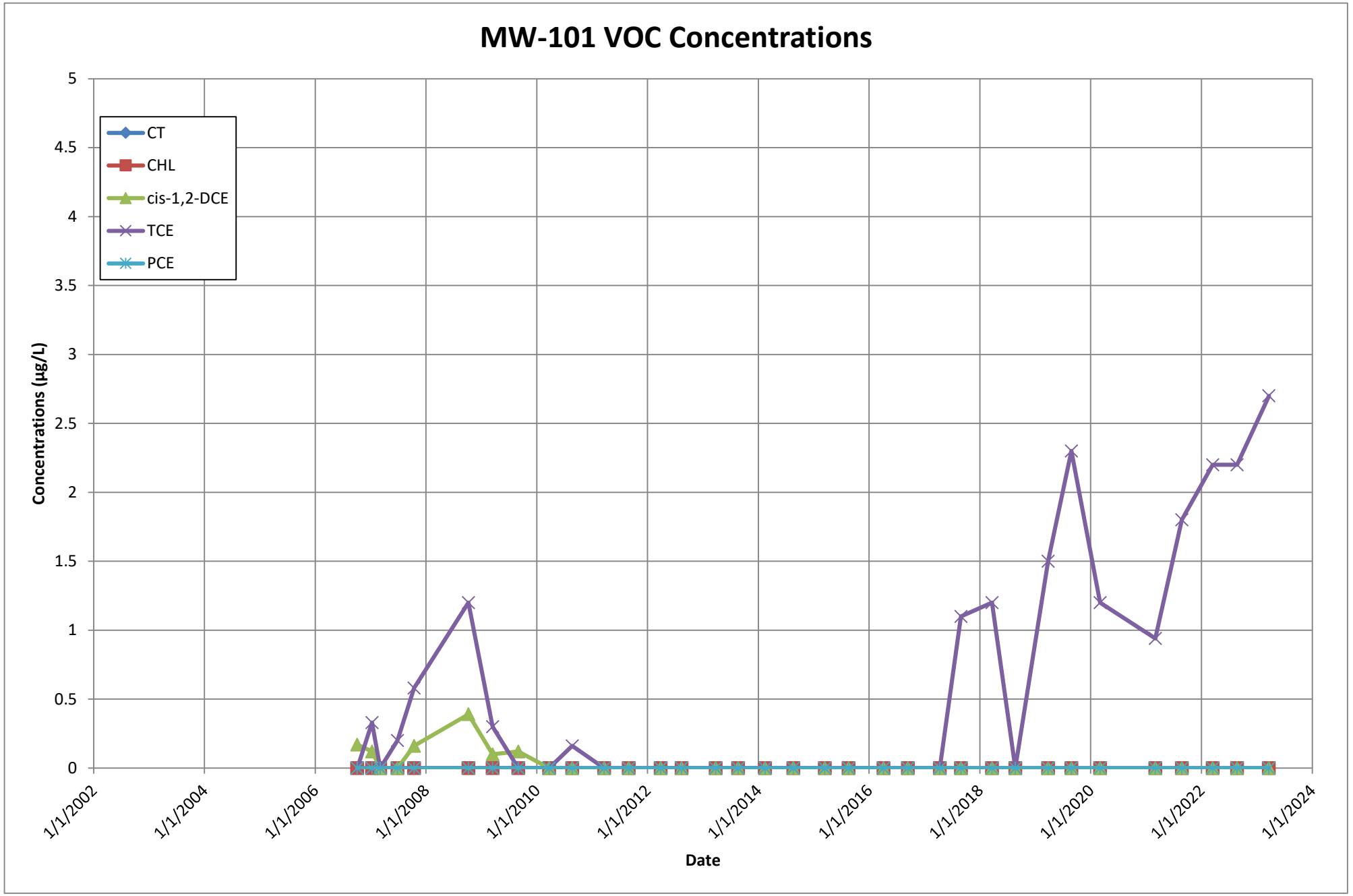

MW-28 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

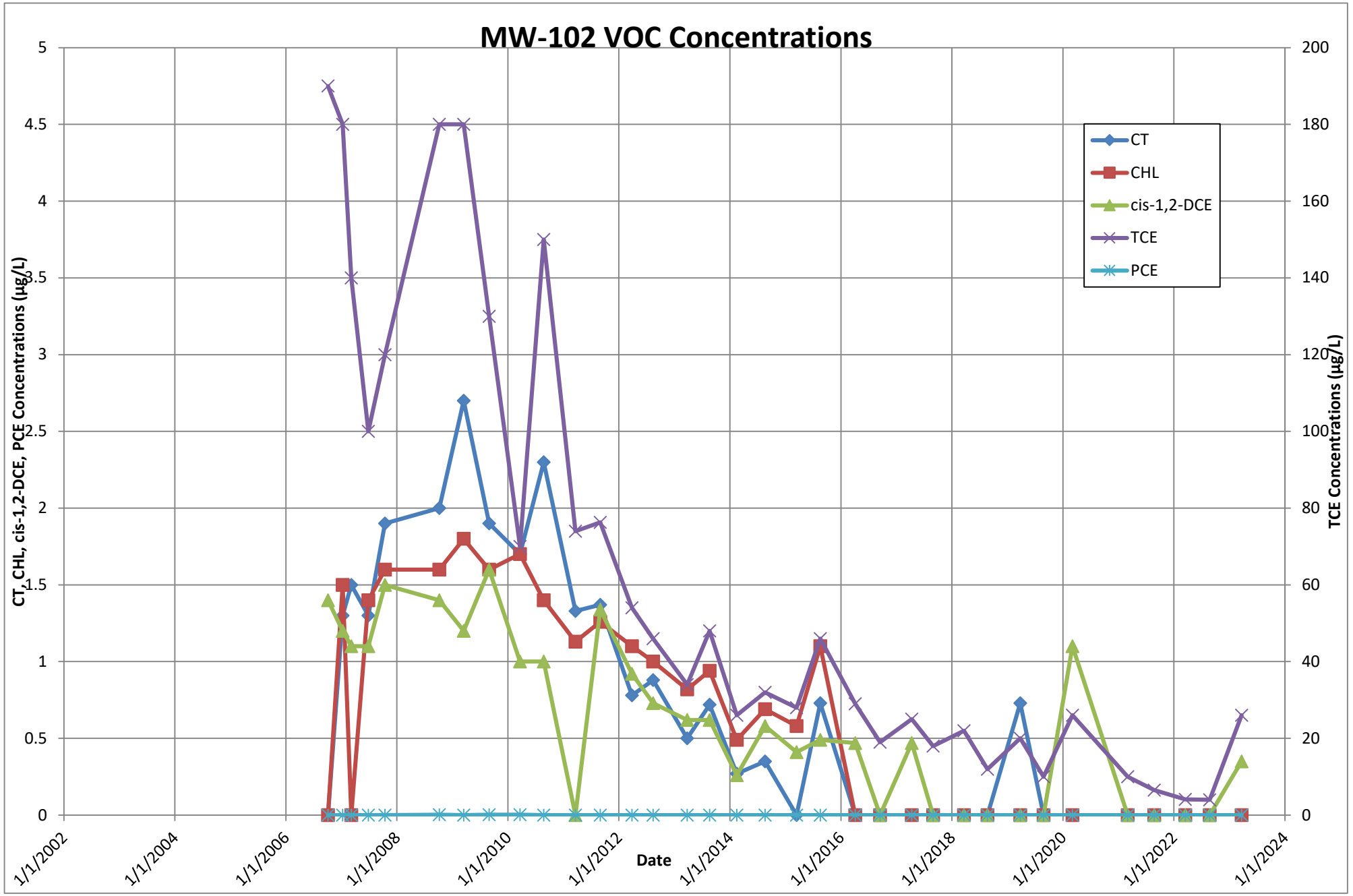

MW-29 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

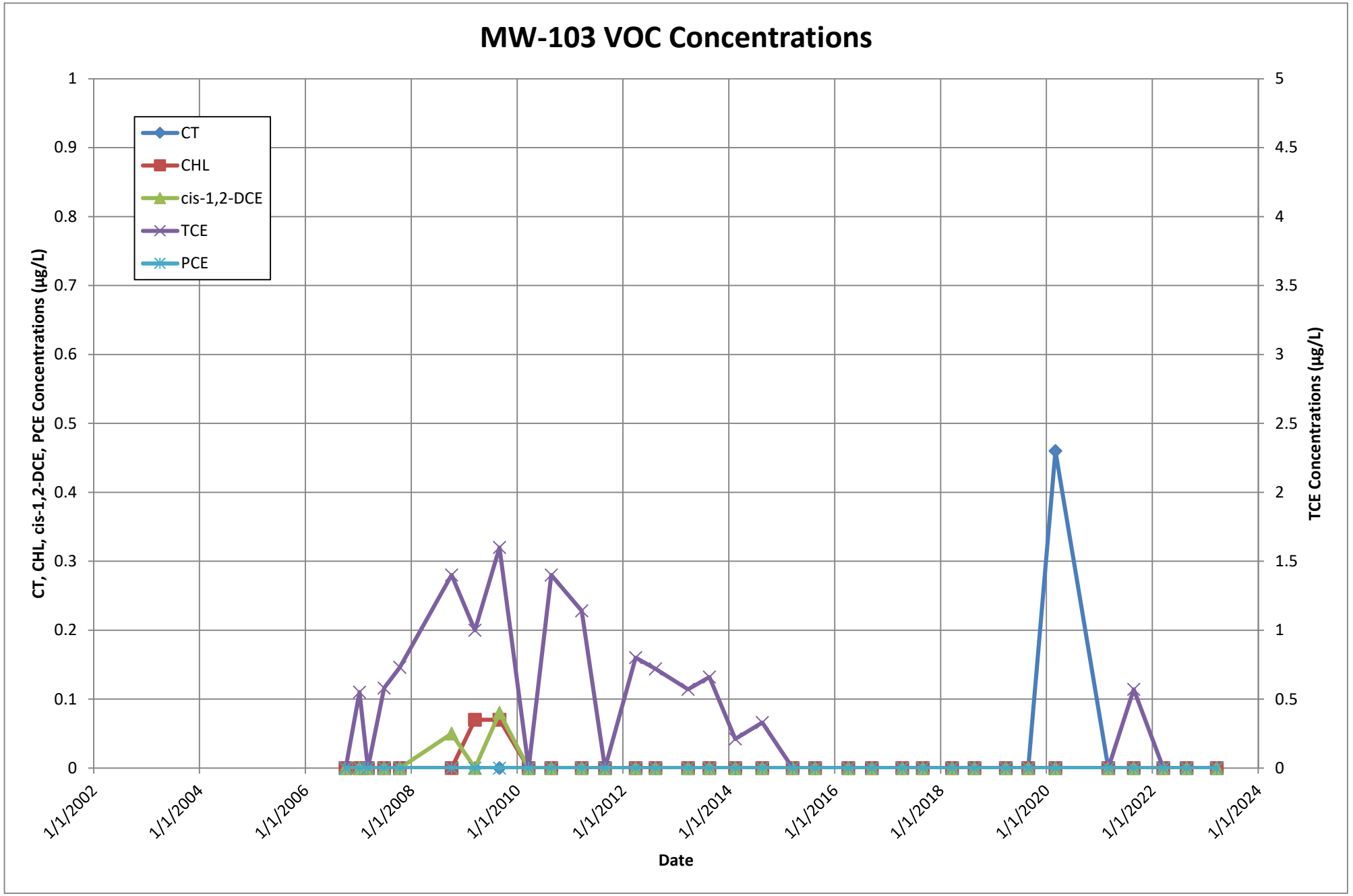

MW-30 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
9
10
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date

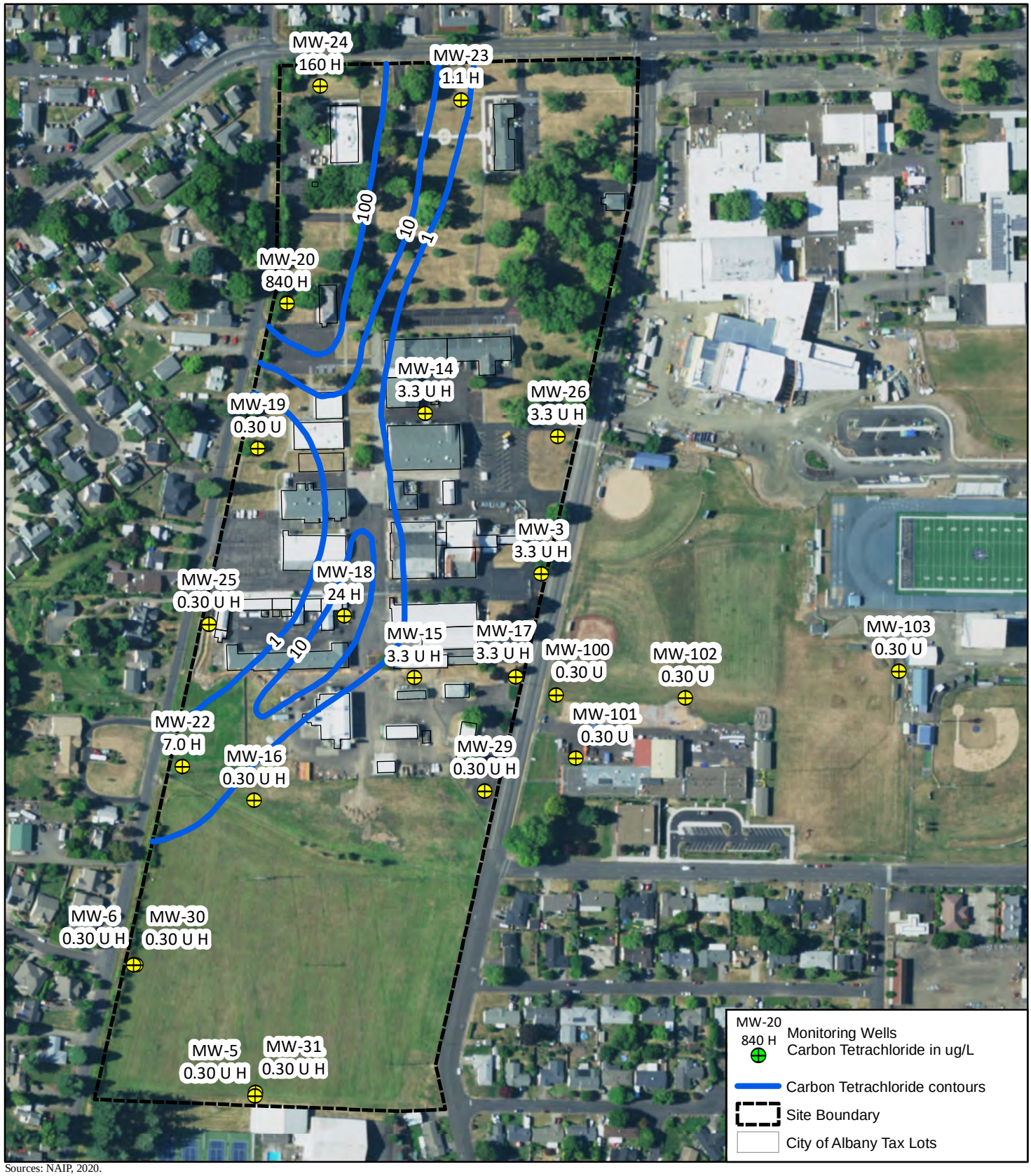

MW-31 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date


MW-100 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
0
100
200
300
400
500
600
700
800
900
1000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024


MW-101 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024
Date


MW-102 VOC Concentrations
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
CT
CHL
cis-1,2-DCE
TCE
PCE
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
20
40
60
80
100
120
140
160
180
200
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024


MW-103 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
1/1/2024



Sources: NAIP, 2020.
Albany GIS, 2007.

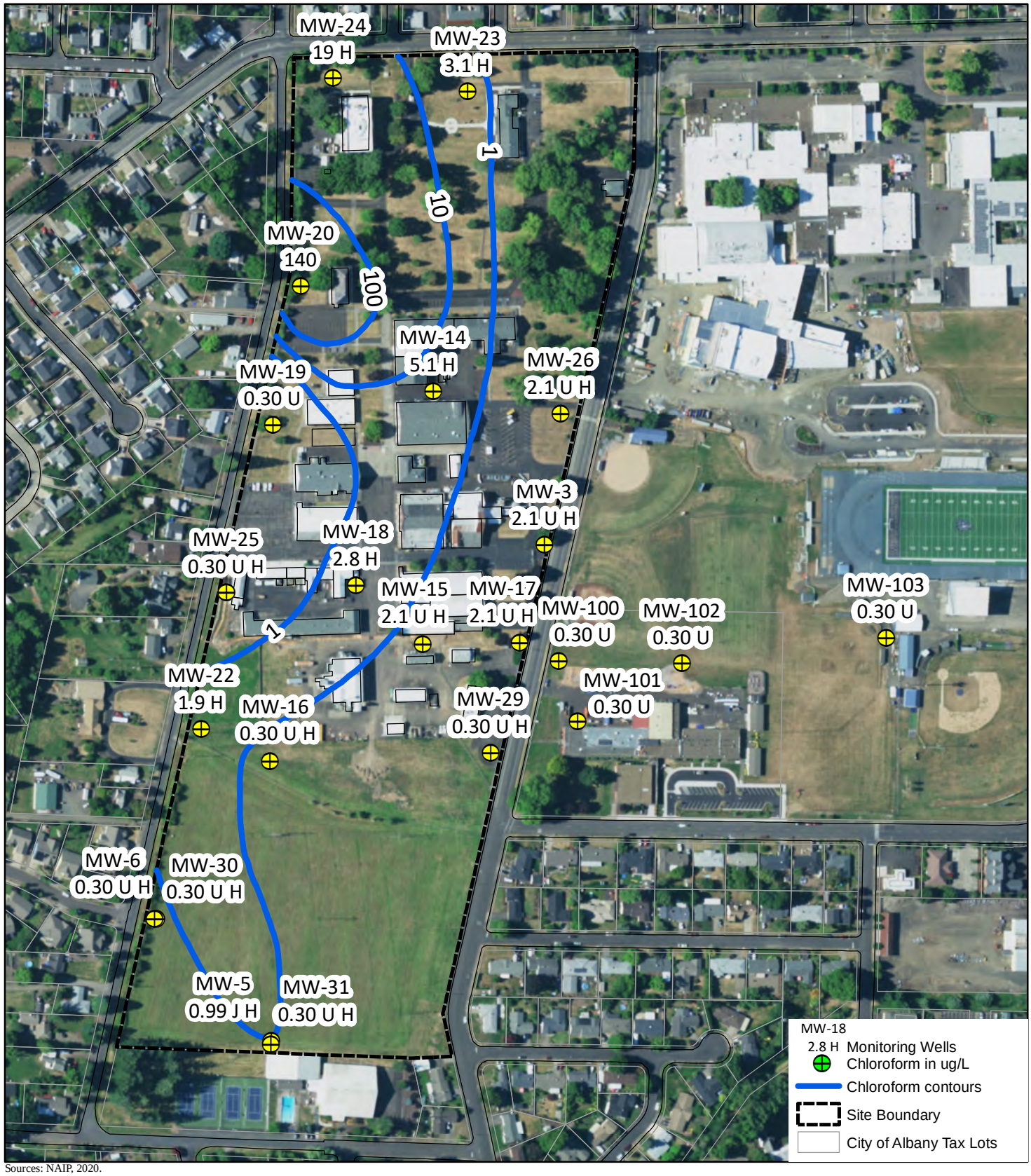
150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE GRAVEL AQUIFER, MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 7



Sources: NAIP, 2020.
Albany GIS, 2007.

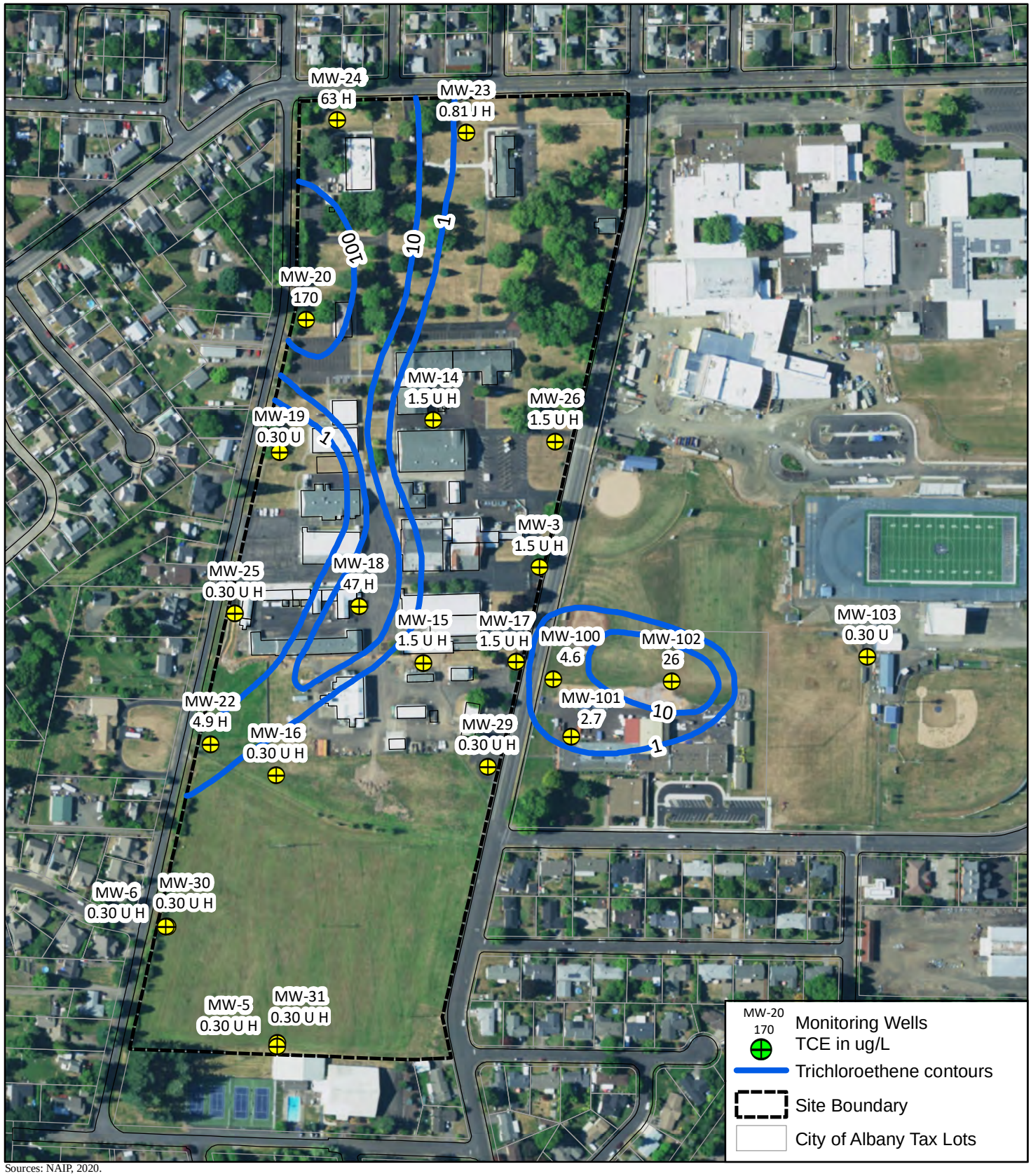
150 75 0 150 300
Feet

CONCENTRATION OF CHLOROFORM IN THE GRAVEL AQUIFER, MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 8



Sources: NAIP, 2020.
Albany GIS, 2007.

150 75 0 150 300
Feet

CONCENTRATION OF TRICHLOROETHENE IN THE GRAVEL AQUIFER, MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 9



Sources: NAIP, 2020.
Albany GIS, 2007.

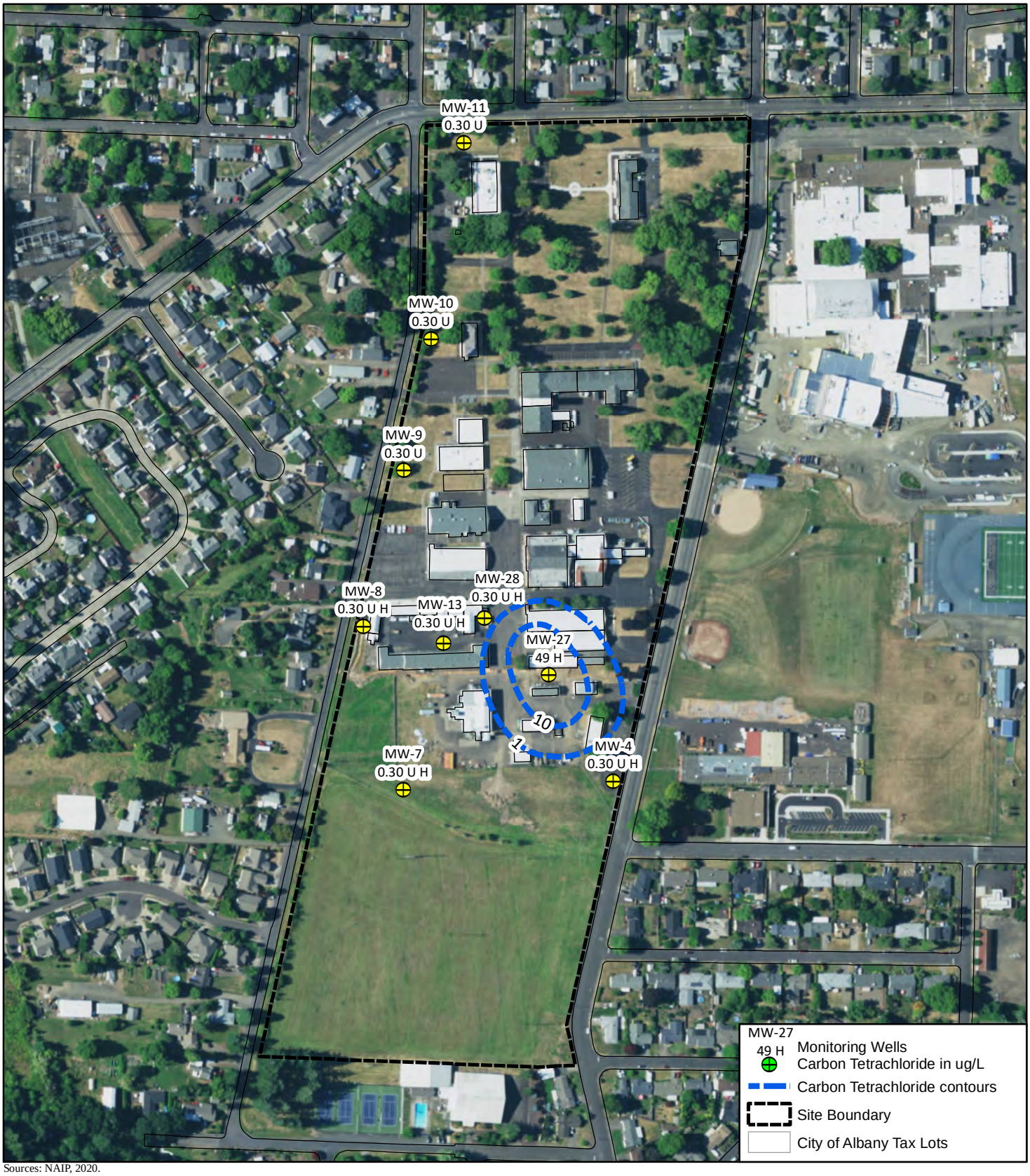
150 75 0 150 300
Feet

CONCENTRATION OF TETRACHLOROETHENE IN THE GRAVEL AQUIFER, MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 10



Sources: NAIP, 2020.
Albany GIS, 2007.

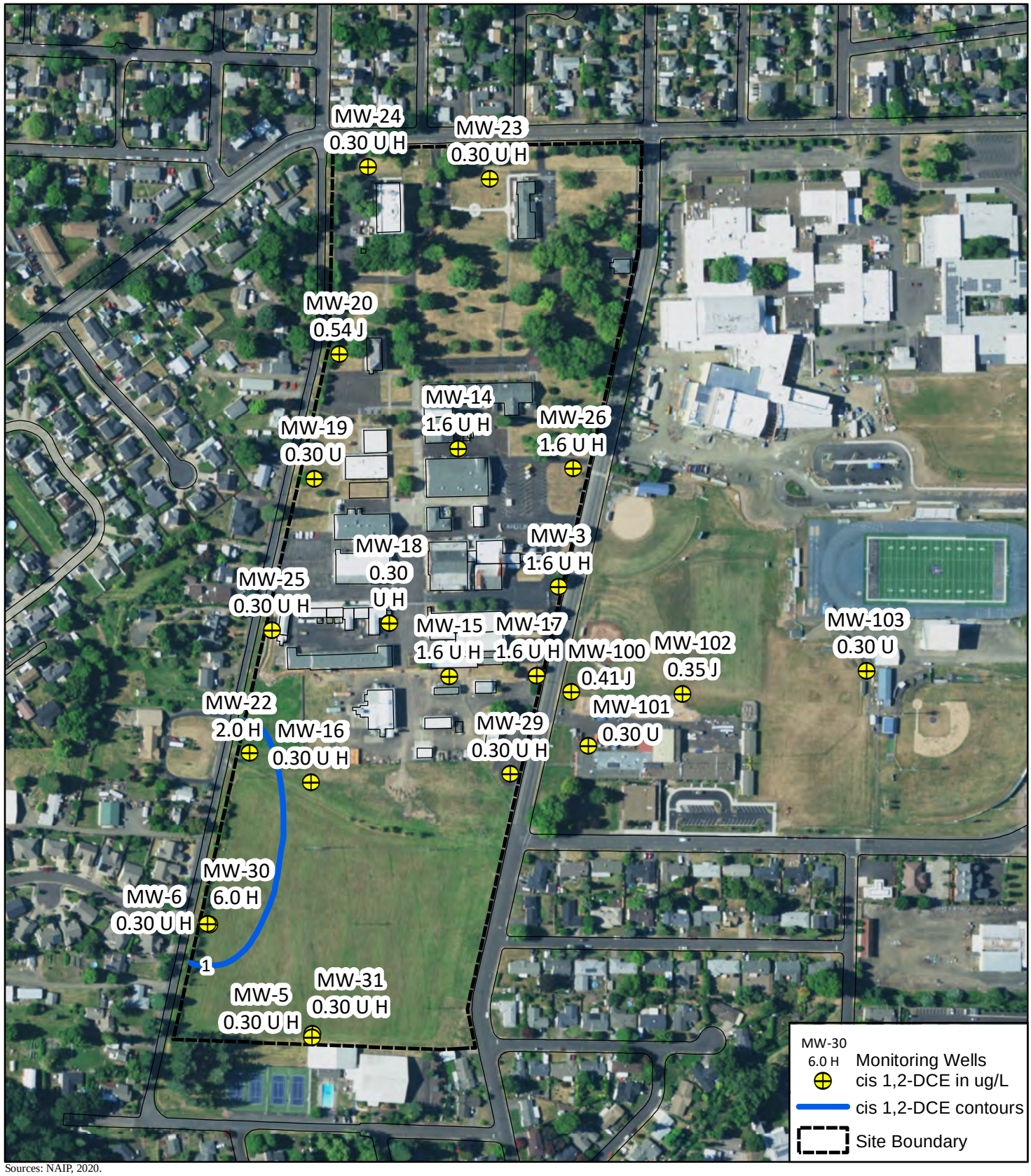
150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE PERCHED AQUIFER MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 11



Sources: NAIP, 2020.
Albany GIS, 2007.

150 75 0 150 300
Feet

CONCENTRATION OF CIS 1,2-DCE IN THE GRAVEL AQUIFER, MARCH 2023

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2023

FIGURE 12

Appendices

Appendix A. Monitoring Well Sampling Field Logs

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: PZ-1A

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 8.97 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: _____

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: _____ End Purge Time: _____

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										

SAMPLE COLLECTION DATA

Sampled by: _____

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): _____

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: _____ End SampleTime: _____

COMMENTS: Gauge Only

PID: _____

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: PZ-1B

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 8.81 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: _____

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: _____ End Purge Time: _____

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										

SAMPLE COLLECTION DATA

Sampled by: _____

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): _____

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: _____ End SampleTime: _____

COMMENTS: Gauge Only

PID: _____

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-1

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2023 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 18.92 (ft)

Total Well Depth 28.32 (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: _____

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: _____ **End Purge Time:** _____

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										

SAMPLE COLLECTION DATA

Sampled by: _____

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): _____

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: _____ **End SampleTime:** _____

COMMENTS: Gauge only

PID: 0.0

MW-3 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW3

Project No.: 0506-1.6 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 8.52 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquaredder

Required Total Purge Volume (gals.): _____

Total Volume Purged: ~0.3gal

Begin Purge Time: 1432 End Purge Time: 1452

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

PURGING VALUES

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
0	0		8.52	7.50	12.90	650	187	9.79	146.7	
1	5		8.56	7.68	14.40	733	96.4	6.67	152.7	
2	10		8.56	7.73	14.40	721	19.7	6.53	147.1	
3	15		8.56	7.75	14.40	722	15.4	6.38	139.4	
4	20		8.56	7.75	14.40	724	14.8	6.35	138.7	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW3, 3/20/23, ~~1430~~ 1453

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1453 End SampleTime: 1455

COMMENTS: Dup 1 collected @ 1456

PID: 0.0

MW-4 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-4

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 1.90 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1412 End Purge Time: 1432

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
~~0~~	~~0~~		~~1.90~~	~~18.20~~						
0	0		1.90	7.29	18.20	1035	36	4.21	128.0	
1	5		1.99	7.16	13.90	1211	18	0.90	73.1	
2	10		2.04	7.17	13.80	1260	10	0.76	64.4	
3	15		2.01	7.18	13.80	1267	7	0.75	61.1	
4	20		2.05	7.16	13.80	1261	9	0.79	63.4	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-4, 3/21/23, 1433

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1433 End SampleTime: 1435

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-5

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 9.85 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1809 End Purge Time: 1829

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		9.85	7.60	13.00	975	210	2.91	-164.5	
1	5		11.07	7.72	13.20	959	260	0.88	-149.2	
2	10		11.38	8.27	13.00	934	22	2.70	-122.2	
3	15		11.67	8.23	13.00	934	19	2.76	-123.4	
4	20									

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-5, 3/21/23,

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1830 End SampleTime: 1832

COMMENTS:

PID: 0.0

MW-6 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-6

Project No.: 0506-116 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 12.35 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1703 End Purge Time: _____

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		12.35	12.72	12.95	216	153	7.27	261.2	
1	5		13.11	7.17	12.20	190	22	7.07	-699.8	
2	10		13.10	7.21	12.20	199	19	7.14	-695.3	
3	15		13.10	7.22	12.20	193	14	7.03	-693.2	
4	20		13.10	7.23	12.20	191	11	7.05	-695.8	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-6, 3/21/23, 1724

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1725 End SampleTime: 1726

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-7

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 1.09 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1020 End Purge Time: 1040

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		1.09	8.97	11.80	672	57	7.81	-598.2	
1	5		2.81	7.54	11.40	926	21	3.93	-508.6	
2	10		3.01	7.57	11.40	931	18	3.78	-478.6	
3	15		3.26	7.58	11.40	928	15	3.74	-476.2	
4	20		3.24	7.60	11.40	924	17	3.76	-475.8	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-7, 3/21/23 1042

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1042 End SampleTime: 1044

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-8

Project No.: 0SD6-16 | Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 | Project Location: Albany, OR

Weather Conditions: Sunny | Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 7.87 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1300 | End Purge Time: 1320

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		7.87	7.24	13.10	487	42	4.86	115.1	
1	5		9.41	8.61	13.30	508	20	1.89	97.4	
2	10		9.44	8.58	13.30	506	17	1.66	98.9	
3	15		9.45	8.55	13.30	513	15	1.60	91.4	
4	20		9.55	8.51	13.30	511	12	1.63	94.8	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-8, 3/21/23, 1321

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1321 | End SampleTime: 1323

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-9

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 1.60 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1009 End Purge Time: 1029

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		1.60	8.46	15.73	444	109	4.40	218.0	
1	5		2.06	7.80	11.90	246	24	0.44	239.2	
2	10		1.70	7.61	11.70	239	20	0.08	160.9	
3	15		1.70	7.60	11.70	231	18	0.08	157.8	
4	20		1.70	7.58	11.70	234	16	0.13	155.6	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-9, 3/22/23, 1030

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1030 End SampleTime: 1032

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-10

Project No.: 0506-16 | Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 | Project Location: Albany, OR

Weather Conditions: Sunny | Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 1.78 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1332 End Purge Time: 1352

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		1.78	7.41	16.88	390	101	6.49	166.1	
1	5		2.30	7.85	14.00	308	30	2.23	142.9	
2	10		2.34	7.91	13.80	306	19	2.08	22.1	
3	15		2.40	7.90	13.80	309	18	1.99	20.8	
4	20		2.36	7.92	13.80	302	18	1.96	19.7	

SAMPLE COLLECTION DATA

Sampled by: Charel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-10, 3/22/23, 1355

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1355 End SampleTime: 1357

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-11

Project No.: 0506-16 | Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 | Project Location: Albany, OR

Weather Conditions: Sunny | Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 6.57 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1428 | End Purge Time: 1448

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		6.57	7.18	20.70	403	1116	6.88	154.4	
1	5		7.40	7.27	12.80	202	22	5.30	157.2	
2	10		7.60	7.28	12.80	204	19	5.30	78.5	
3	15		7.74	7.25	12.80	205	18	5.26	75.3	
4	20		7.83	7.25	12.80	202	18	5.30	71.1	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-11, 3/22/23, 1450

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1450 | End SampleTime: 1452

COMMENTS:

PID: 0.0

MW-13 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-13

Project No.: 0506-[illegible] Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 9.16 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1201 End Purge Time: 1216

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		9.16	7.51	14.30	622	71	5.48	122.6	
1	5		10.05	7.15	14.00	625	19	2.64	122.9	
2	10		10.13	7.07	14.00	619	15	2.65	126.7	
3	15		10.25	7.09	14.00	615	12	2.60	129.7	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): ~~MW-8~~ MW-13, 3/21/23,

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1217 End SampleTime: 1219

COMMENTS:

PID: 0.0

MW-14 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-14

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Rain Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.12 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: ~~YSI~~ Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1255 End Purge Time: 1310

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.17	7.87	14.30	426	18.3	8.04	185.6	
1	5	M.T.	~~14.40~~	8.15	14.40	421	16.2	8.05	101.4	
2	10		14.17	8.17	14.40	413	12.7	8.04	96.1	
3	15		14.17	8.17	14.40	410	11.2	8.06	94.6	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW14, 3/20/23, 1312

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1312 End SampleTime: 1315

COMMENTS:

PID: 0.0

MW-15 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-15

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 10.87 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1547 End Purge Time: 1607

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (±> 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		10.87	7.48	13.50	873	22.8	6.61	155.3	
1	5		11.89	7.29	14.70	836	18.4	2.73	157.4	
2	10		11.89	7.26	14.70	693	11.1	4.47	163.2	
3	15		11.89	7.21	14.70	678	11.7	4.54	162.1	
4	20		11.89	7.20	14.70	680	8.2	4.55	159.6	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-15, 3/20/23, 1608

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1608 End SampleTime: 1610

COMMENTS:

PID: 0.0

MW-16 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-16

Project No.: 0506-16
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: Overcast
Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 5.90 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: Aquareader
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 0944 End Purge Time: 1009

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		~~5.90~~	7.72	16.45	873	3181	5.78	81.8	
1	5		5.90	7.66	11.85	933	1351	4.81	99.9	
2	10		5.90	8.93	11.80	917	871	3.54	45.0	
3	15		5.90	7.65	11.00	928	23	3.53	48.0	
4	20		5.90	7.68	11.00	920	25	3.51	41.7	
5	25		5.90	7.68	11.00	925	21	3.52	43.4	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW-16, 3/21/23,
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.: _____

Sample Start Time: 1010 End SampleTime: 1012
COMMENTS:

PID: 0.0

MW-17 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-17

Project No.: 0506-16
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: Overcast
Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 8.02 (ft)
Total Well Depth (ft)
Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: AquaReader
Required Total Purge Volume (gals.):
Total Volume Purged:
Begin Purge Time: 1621 End Purge Time: 1641

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		8.02	7.44	14.05	900	27.1	4.92	149.9	
1	5		7.80	7.34	14.90	849	10.9	2.29	153.6	
2	10		7.80	7.31	14.90	857	8.4	~~1.88~~	155.4	DO- 1.88
3	15		7.80	7.32	14.90	858	8.9	1.78	161.0	
4	20		7.80	7.32	14.90	859	8.0	1.76	160.9	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW-17, 3/20/23, 1642
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.:

Sample Start Time: 1642 End SampleTime: 1644
COMMENTS:

PID: 0.0

MW-18 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-18

Project No.: 0506-16
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: sunny
Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 12.90 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: Aquareader
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1106 End Purge Time: 1121

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		12.90	7.22	17.80	1009	54	6.84	98.4	
1	5		12.95	7.19	16.30	1073	22	2.56	108.3	
2	10		12.95	7.20	16.40	1072	18	2.54	108.5	
3	15		12.98	7.21	16.40	1084	19	2.44	110.0	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW-18, 3/21/23 1123
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.:

Sample Start Time: 1123 End SampleTime: 1125
COMMENTS:

PID: 0.0

Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-19

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 13.47 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1048 End Purge Time: 1108

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		13.47	7.21	13.80	446	474	3.30	-217.4	
1	5		13.91	7.28	14.50	577	29	2.22	218.4	
2	10		13.97	7.25	14.50	569	21	2.26	215.3	
3	15		14.06	7.25	14.50	568	17	2.30	217.8	
4	20		14.09	7.26	14.50	570	15	2.33	213.4	

SAMPLE COLLECTION DATA

Sampled by: Charel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-19, 3/22/23, 1112

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1110 End SampleTime: 1112

COMMENTS:

PID: 0.0

MW-20 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-20

Project No.: 0506 - 16
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: Sunny
Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 15.65 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: Aquareader
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1300 End Purge Time: 1320

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES						1210				
0	0		15.65	8.08	15.15	~~131.8~~	101	5.71	131.3	
1	5		15.70	7.82	14.60	1306	26	2.14	133.1	
2	10		15.70	7.95	14.60	1310	21	0.89	132.0	
3	15		15.70	7.91	14.60	1301	19	0.75	129.9	
4	20		15.70	7.93	14.60	1299	19	0.68	126.6	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW-20, 3/22/23, 1320
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.:

Sample Start Time: 1321 End SampleTime: 1323
COMMENTS: Dup 2 collected @ 1325
PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-21

Project No.: 0506 - 16 **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2023 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 5.58 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment:

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: **End Purge Time:**

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										

SAMPLE COLLECTION DATA

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump **Sampled by:** Channel Long

Sample I.D. (Name, Date, Time):

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: **End SampleTime:**

COMMENTS: Measure Only

PID: 0.0

MW-22 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-22

Project No.: 0506-16
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: Sunny
Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 5.71 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: Aquareader
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1538 End Purge Time: 1558

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		5.71	7.83	20.81	726	131	6.70	102.2	
1	5		5.72	7.84	13.88	1002	122	3.01	-32.4	
2	10		5.73	7.83	13.40	1093	28	0.55	-38.5	
3	15		5.70	7.80	13.40	1084	27	0.56	-42.9	
4	20		5.70	7.78	13.40	1069	19	0.49	-44.7	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW-22, 3/21/23, 1600
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.:

Sample Start Time: 1600 End SampleTime: 1602
COMMENTS:

PID: 0.0

MW-23 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-23

Project No.: 0506-16
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: Sunny
Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 18.67 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: Aquareader
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1149 End Purge Time: 1209

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		18.67	9.52	16.75	890	95	8.54	142.5	
1	5		18.70	8.60	14.60	834	33	7.14	168.7	
2	10		18.70	8.42	14.40	815	31	6.25	174.8	
3	15		18.70	8.45	14.40	801	25	6.31	171.2	
4	20		18.70	8.49	14.40	799	26	6.29	171.8	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW-23, 3/22/23, 1210
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.: _____

Sample Start Time: 1210 End SampleTime: 1212
COMMENTS:

PID: 0.0

MW-24 Metals

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-24

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 18.20 ~~18~~ (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1453 End Purge Time: ~~1~~1508

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		18.20	6.59	14.60	890	100	8.11	112.4	
1	5		18.24	7.14	14.40	994	23	1.44	110.6	
2	10		18.26	7.19	14.40	994	22	1.39	110.2	
3	15		18.26	7.15	14.40	989	20	1.38	109.5	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-24, 3/22/23, 1510

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1510 End SampleTime: 1512

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-25

Project No.: 65016-116
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: Sunny
Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 8.48 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: Aqua reader
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1235 End Purge Time: 1255

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		8.48	7.29	12.60	557	61	7.67	122.2	
1	5		8.81	7.11	13.50	613	16	2.29	128.2	
2	10		8.86	7.28	13.50	599	12	1.69	129.8	
3	15		8.90	7.30	13.50	604	8	1.61	124.8	
4	20		8.97	7.35	13.70	595	8	1.60	117.6	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW-25, 3/21/23, 1256
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.:

Sample Start Time: 1256 End SampleTime: 1258
COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW26

Project No.: 0506-16
Client: NETL-Albany
Project Name: First SA Wet Season Event 2023
Project Location: Albany, OR
Weather Conditions: Rain
Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 10.20 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: #5 Aquareader
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1343 End Purge Time: 1403

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		10.20	8.17	13.30	582	21.7	6.65	-527.9	
1	5	12.70	7.12	14.20	561	19.3	5.07	-502.8		
2	10		13.18	7.08	14.40	564	16.8	4.23	-497.3	
3	15		14.24	7.08	14.40	567	10.2	4.05	-494.9	
4	20		14.83	7.06	14.40	566	10.7	4.03	-489.7	

SAMPLE COLLECTION DATA

Sampled by: Channel Long
Sampling Method(s) & Equip: Low Flow using QED Bladder Pump
Sample I.D. (Name, Date, Time): MW26, 3/20/23, 1405
Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A
QA/QC Sample I.D.: _____

Sample Start Time: 1405 End SampleTime: 1408
COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-27

Project No.: 0506-06 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/20/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 8.42 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1527 End Purge Time: 1542

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		8.42	7.75	13.80	832	25.8	9.12	163.6	
1	5		9.74	7.95	13.10	829	17.3	7.42	171.7	
2	10		10.02	7.84	13.10	815	12.6	6.73	142.8	
3	15		10.09	7.87	13.10	816	11.5	6.63	138.7	
4	20		10.39	7.87	13.10	824	8.7	6.59	135.3	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW27, 3/20/23, 1543

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1543 End SampleTime: 1545

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-28

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2023 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 4.80 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aqua reader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1130 **End Purge Time:** 1145

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		4.80	18.25 → 7.85		344	73	6.96	136.2	
1	5		5.98	7.74	14.30	348	21	5.55	130.5	
2	10		7.63	7.81	14.30	357	17	5.44	127.8	
3	15		8.28	7.80	14.30	376	13	5.41	123.2	

SAMPLE COLLECTION DATA Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-28, 3/21/22, 1146

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1146 **End SampleTime:** 1148

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-29

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 6.82 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1438 End Purge Time: 1458

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		6.82	7.06	19.63	1661	24	6.58	58.3	
1	5		7.48	7.26	16.10	1525	19	4.37	59.4	
2	10		8.04	7.32	16.20	1591	16	1.63	23.8	
3	15		8.25	7.38	16.20	[illegible]	11	1.58	21.4	
4	20		8.31	7.38	16.20	1611↑	8	1.59	20.7	
						1614↑				

SAMPLE COLLECTION DATA

Sampling Method(s) & Equip: Sampled by: Channel Long

Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-29, 3/21/23, 14

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1459 End SampleTime: 1501

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-30

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2023 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 11.32 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1637 **End Purge Time:** 1657

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		11.32	7.88	14.18	1152	173	3.43	-100.0	
1	5		12.14	7.92	14.30	1669	89	0.91	-256.6	
2	10		12.30	7.94	14.30	1079	21	0.06	-380.6	
3	15		12.32	7.97	14.30	1088	19	0.00	-387.2	
4	20		12.32	7.97	14.30	1083	12	0.00		

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-30, 3/21/23, 1658

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1658 **End SampleTime:** 1700

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-31

Project No.: 0506-110 | Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 | Project Location: Albany, OR

Weather Conditions: Sunny | Sampling Date: 3/21/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 9.32 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1742 | End Purge Time: 1802

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		9.32	7.36	14.75	886	195	5.00	-90.0	
1	5		9.19	7.57	13.55	919	23	1.55	-263.1	
2	10		9.20	7.64	13.50	966	20	0.99	-288.2	
3	15		9.20	7.61	13.50	968	18	0.96	-294.3	
4	20		9.20	7.68	13.50	967	14	0.89	-298.4	

SAMPLE COLLECTION DATA

Sampled by: Channel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW-31, 3/21/23,

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1803 | End SampleTime: 1805

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-100

Project No.: 0506-16 | Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 | Project Location: Albany, OR

Weather Conditions: Overcast / rain | Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 7.37 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquaread er

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1624 | End Purge Time: 1644

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		7.37	7.50	16.90	1612	265	4.38	91.1	
1	5		7.40	7.34	14.80	1631	24	0.63	1.6	
2	10		7.40	7.49	14.80	1634	21	0.40	103.0	
3	15		7.40	7.47	14.80	1636	17	0.38	98.6	
4	20		7.40	7.48	14.80	1632	17	0.35	96.5	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-100, 3/22/23, 1645

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1645 | End SampleTime: 1647

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-101

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: ~~Cloud~~ Overcast Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 7.54 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1555 End Purge Time: 1615

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		7.54	7.59	18.05	1030	147	7.19	130.5	
1	5		7.58	7.42	16.30	1037	20	3.48	122.8	
2	10		7.58	7.39	16.30	1037	19	3.27	124.3	
3	15		7.58	7.37	16.30	1036	17	3.22	127.6	
4	20		7.58	7.42	16.30	1038	17	3.18	129.1	

SAMPLE COLLECTION DATA

Sampled by: Cmarel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-101, 3/22/23, 1617

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1617 End SampleTime: 1619

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-102

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 6.62 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquareader

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1652 End Purge Time: 1712

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

PURGING VALUES

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
0	0		6.62	7.89	14.75	1648	198	4.23	65.2	
1	5		6.66	7.70	14.23	1355	338	2.19	68.4	
2	10		6.66	7.76	14.20	1533	21	0.21	62.5	
3	15		6.66	7.78	14.20	1537	20	0.25	60.8	
4	20		6.66	7.78	14.20	1531	15	0.28	63.2	

SAMPLE COLLECTION DATA

Sampled by: _____

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-102, 3/22/23, 1715

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1715 End SampleTime: 1717

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-103

Project No.: 0506-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2023 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/22/23

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 5.87 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Aquaread

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1728 End Purge Time: 1748

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		5.87	7.99	15.78	1040	115	7.31	65.3	
1	5		5.89	7.67	13.70	1094	27	2.60	76.2	
2	10		5.90	7.68	13.70	1099	25	2.58	73.6	
3	15		5.90	7.68	13.70	1091	20	2.51	73.0	
4	20		5.90	7.68	13.70	1099	20	2.53	70.9	

SAMPLE COLLECTION DATA

Sampled by: Charel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW-103, 3/22/23, 17

Sample Analytical Parameters/Method: (VOCs)Method 8260D

QA/QC Sample I.D.: _____

Sample Start Time: 1750 End SampleTime: 1752

COMMENTS:

PID: 0.0

Appendix B. EuroFins Laboratories Analytical Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mark Thomas
WE2 Support Services
1450 Queen Avenue SW
Albany, Oregon 97321

Generated 4/17/2023 2:34:43 PM

JOB DESCRIPTION

Dept of Energy- NETL - Albany, OR

JOB NUMBER

180-154079-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

my EOL

Eurofins Pittsburgh

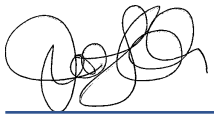
Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Generated
4/17/2023 2:34:43 PM

Authorized for release by
Jill Colussy, Project Manager I
Jill.Colussy@et.eurofinsus.com
(412)963-2444

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Definitions/Glossary 5
Certification Summary 6
Sample Summary 7
Method Summary 8
Lab Chronicle 9
Client Sample Results 18
QC Sample Results 77
QC Association Summary 117
Chain of Custody 122
Receipt Checklists 130

Job ID: 180-154079-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative
180-154079-1

Receipt
The samples were received on 3/24/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

The laboratory received a broken VOA vial for samples MW-3 (180-154079-5), MW-14 (180-154079-15), and MW-17 (180-154079-29). There was sufficient sample volume remaining for analysis,

GC/MS VOA
Due to sample capacity and short staff, the Pittsburgh laboratory sent the majority of the samples in this Job to the Eurofins Lancaster laboratory to try to meet the holding times. Several of the samples were analyzed outside of the holding times. All of the samples were analyzed within 4 days of the holding times. The results have been flagged with an "H" qualifier.

Sample MW-20 (180-154079-32) and MW-22 (180-154079-33) were analyzed from VOA vials that had headspace.

The continuing calibration verification (CCV) analyzed in batch 180-431682 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene (RF). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.: (CCVIS 180-431682/5).

The continuing calibration verification (CCV) associated with batch 410-360836 recovered above the upper control limit for Hexachlorobutadiene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

The continuing calibration verification (CCV) associated with batch 410-360918 recovered above the upper control limit for Bromoform, Carbon tetrachloride, Bromochloromethane and Tetrachloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

The continuing calibration verification (CCV) associated with batch 410-361348 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

The continuing calibration verification (CCV) associated with batch 410-362909 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed and non-detections of the affected analytes are reported. Any detections are considered estimated.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	PA-2151	02-06-24

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	PA200001	04-17-23

Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-23

Sample Summary

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-154079-5	MW-3	Water	03/20/23 14:53	03/24/23 10:30
180-154079-6	MW-4	Water	03/21/23 14:33	03/24/23 10:30
180-154079-7	MW-5	Water	03/21/23 18:30	03/24/23 10:30
180-154079-8	MW-6	Water	03/21/23 17:25	03/24/23 10:30
180-154079-9	MW-7	Water	03/21/23 10:42	03/24/23 10:30
180-154079-10	MW-8	Water	03/21/23 13:21	03/24/23 10:30
180-154079-11	MW-9	Water	03/22/23 10:30	03/24/23 10:30
180-154079-12	MW-10	Water	03/22/23 13:55	03/24/23 10:30
180-154079-13	MW-11	Water	03/22/23 14:50	03/24/23 10:30
180-154079-14	MW-13	Water	03/21/23 12:17	03/24/23 10:30
180-154079-15	MW-14	Water	03/20/23 13:12	03/24/23 10:30
180-154079-16	MW-27	Water	03/20/23 15:43	03/24/23 10:30
180-154079-17	MW-28	Water	03/21/23 11:46	03/24/23 10:30
180-154079-18	MW-29	Water	03/21/23 14:59	03/24/23 10:30
180-154079-19	MW-30	Water	03/21/23 16:58	03/24/23 10:30
180-154079-20	MW-31	Water	03/21/23 18:03	03/24/23 10:30
180-154079-21	MW-100	Water	03/22/23 16:45	03/24/23 10:30
180-154079-22	MW-101	Water	03/22/23 16:17	03/24/23 10:30
180-154079-23	MW-102	Water	03/22/23 17:15	03/24/23 10:30
180-154079-24	MW-103	Water	03/22/23 17:50	03/24/23 10:30
180-154079-25	DUP-1	Water	03/20/23 14:56	03/24/23 10:30
180-154079-26	DUP-2	Water	03/22/23 13:25	03/24/23 10:30
180-154079-27	MW-15	Water	03/20/23 16:08	03/24/23 10:30
180-154079-28	MW-16	Water	03/21/23 10:10	03/24/23 10:30
180-154079-29	MW-17	Water	03/20/23 16:42	03/24/23 10:30
180-154079-30	MW-18	Water	03/21/23 11:23	03/24/23 10:30
180-154079-31	MW-19	Water	03/22/23 11:10	03/24/23 10:30
180-154079-32	MW-20	Water	03/22/23 13:21	03/24/23 10:30
180-154079-33	MW-22	Water	03/21/23 16:00	03/24/23 10:30
180-154079-34	MW-23	Water	03/22/23 12:10	03/24/23 10:30
180-154079-35	MW-24	Water	03/22/23 15:10	03/24/23 10:30
180-154079-36	MW-25	Water	03/21/23 12:56	03/24/23 10:30
180-154079-37	MW-26	Water	03/20/23 14:05	03/24/23 10:30

Method Summary

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
EPA 8260D	Volatile Organic Compounds by GC/MS	SW846	EET PIT
200.7 Rev 4.4	Metals (ICP)	EPA	EET SEA
200.8	Metals (ICP/MS)	EPA	EET SEA
245.1	Mercury (CVAA)	EPA	EET SEA
200.7	Preparation, Total Metals	EPA	EET SEA
200.8	Preparation, Total Metals	EPA	EET SEA
245.1	Preparation, Mercury	EPA	EET SEA
5030C	Purge and Trap	SW846	EET PIT
5030C	Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW-3
Lab Sample ID: 180-154079-5
Date Collected: 03/20/23 14:53
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260D		1	5 mL	5 mL	431682	04/07/23 16:31	J1T	EET PIT
	Instrument ID: CHHP5									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:31	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:48	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	421990	03/31/23 11:29	DLV	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 15:14	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-4
Lab Sample ID: 180-154079-6
Date Collected: 03/21/23 14:33
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360825	04/05/23 01:38	TQ4J	ELLE
	Instrument ID: 9915									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:34	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:51	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	421990	03/31/23 11:29	DLV	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 15:16	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-5
Lab Sample ID: 180-154079-7
Date Collected: 03/21/23 18:30
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360825	04/05/23 02:00	TQ4J	ELLE
	Instrument ID: 9915									

Client Sample ID: MW-6
Lab Sample ID: 180-154079-8
Date Collected: 03/21/23 17:25
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360825	04/05/23 02:22	TQ4J	ELLE
	Instrument ID: 9915									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW-6
Lab Sample ID: 180-154079-8
Date Collected: 03/21/23 17:25
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:38	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:53	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:12	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-7
Lab Sample ID: 180-154079-9
Date Collected: 03/21/23 10:42
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360836	04/05/23 02:15	TQ4J	ELLE
	Instrument ID: 26285									

Client Sample ID: MW-8
Lab Sample ID: 180-154079-10
Date Collected: 03/21/23 13:21
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 02:16	Y6ZN	ELLE
	Instrument ID: 15830									

Client Sample ID: MW-9
Lab Sample ID: 180-154079-11
Date Collected: 03/22/23 10:30
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361347	04/05/23 22:00	K4WN	ELLE
	Instrument ID: 15648									

Client Sample ID: MW-10
Lab Sample ID: 180-154079-12
Date Collected: 03/22/23 13:55
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361347	04/05/23 22:20	K4WN	ELLE
	Instrument ID: 15648									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW-11
Lab Sample ID: 180-154079-13
Date Collected: 03/22/23 14:50
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361347	04/05/23 22:40	K4WN	ELLE
	Instrument ID: 15648									

Client Sample ID: MW-13
Lab Sample ID: 180-154079-14
Date Collected: 03/21/23 12:17
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 02:37	Y6ZN	ELLE
	Instrument ID: 15830									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:41	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:57	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:15	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-14
Lab Sample ID: 180-154079-15
Date Collected: 03/20/23 13:12
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260D		1	5 mL	5 mL	431682	04/07/23 16:07	J1T	EET PIT
	Instrument ID: CHHP5									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:45	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:59	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:17	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-27
Lab Sample ID: 180-154079-16
Date Collected: 03/20/23 15:43
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260D		1	5 mL	5 mL	431682	04/07/23 15:43	J1T	EET PIT
	Instrument ID: CHHP5									

Lab Chronicle

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-28
Date Collected: 03/21/23 11:46
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 02:57	Y6ZN	ELLE
	Instrument ID: 15830									

Client Sample ID: MW-29
Date Collected: 03/21/23 14:59
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 03:18	Y6ZN	ELLE
	Instrument ID: 15830									

Client Sample ID: MW-30
Date Collected: 03/21/23 16:58
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 03:38	Y6ZN	ELLE
	Instrument ID: 15830									

Client Sample ID: MW-31
Date Collected: 03/21/23 18:03
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 03:59	Y6ZN	ELLE
	Instrument ID: 15830									

Client Sample ID: MW-100
Date Collected: 03/22/23 16:45
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361347	04/05/23 23:00	K4WN	ELLE
	Instrument ID: 15648									

Client Sample ID: MW-101
Date Collected: 03/22/23 16:17
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361347	04/05/23 23:20	K4WN	ELLE
	Instrument ID: 15648									

Lab Chronicle

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-102
Date Collected: 03/22/23 17:15
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361347	04/05/23 23:40	K4WN	ELLE
	Instrument ID: 15648									

Client Sample ID: MW-103
Date Collected: 03/22/23 17:50
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361348	04/05/23 22:47	K4WN	ELLE
	Instrument ID: 23297									

Client Sample ID: DUP-1
Date Collected: 03/20/23 14:56
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260D		1	5 mL	5 mL	431682	04/07/23 16:55	J1T	EET PIT
	Instrument ID: CHHP5									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:48	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:03	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:19	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: DUP-2
Date Collected: 03/22/23 13:25
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361348	04/05/23 23:10	K4WN	ELLE
	Instrument ID: 23297									
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	363893	04/13/23 18:58	TQ4J	ELLE
	Instrument ID: 9915									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:52	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:05	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:21	JL	EET SEA
	Instrument ID: TAC103									

Lab Chronicle

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-15

Date Collected: 03/20/23 16:08
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260D		1	5 mL	5 mL	431682	04/07/23 14:31	J1T	EET PIT
	Instrument ID: CHHP5									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 20:04	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:20	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:23	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-16

Date Collected: 03/21/23 10:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 04:19	Y6ZN	ELLE
	Instrument ID: 15830									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 20:07	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:23	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:26	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-17

Date Collected: 03/20/23 16:42
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260D		1	5 mL	5 mL	431682	04/07/23 12:32	J1T	EET PIT
	Instrument ID: CHHP5									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 20:11	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:25	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:28	JL	EET SEA
	Instrument ID: TAC103									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW-18
Lab Sample ID: 180-154079-30
Date Collected: 03/21/23 11:23
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	360918	04/05/23 04:40	Y6ZN	ELLE
	Instrument ID: 15830									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 20:14	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:28	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:30	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-19
Lab Sample ID: 180-154079-31
Date Collected: 03/22/23 11:10
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361348	04/05/23 23:32	K4WN	ELLE
	Instrument ID: 23297									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 20:18	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:31	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:32	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-20
Lab Sample ID: 180-154079-32
Date Collected: 03/22/23 13:21
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361348	04/05/23 23:55	K4WN	ELLE
	Instrument ID: 23297									
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	362279	04/08/23 03:32	K4WN	ELLE
	Instrument ID: 9915									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 20:21	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 15:34	FCW	EET SEA
	Instrument ID: TAC110									

Lab Chronicle

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-20
Date Collected: 03/22/23 13:21
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:39	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-22
Date Collected: 03/21/23 16:00
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	362909	04/11/23 17:30	K4WN	ELLE
	Instrument ID: 9915									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 20:25	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:04	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:41	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-23
Date Collected: 03/22/23 12:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361348	04/06/23 00:17	K4WN	ELLE
	Instrument ID: 23297									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 19:21	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:39	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:43	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-24
Date Collected: 03/22/23 15:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	361348	04/06/23 00:40	K4WN	ELLE
	Instrument ID: 23297									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-154079-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW-24
Lab Sample ID: 180-154079-35
Date Collected: 03/22/23 15:10
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.7 Rev 4.4		1			422505	04/05/23 18:52	JLS	EET SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	422333	04/04/23 18:24	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	422463	04/05/23 14:07	FCW	EET SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	422176	04/03/23 15:51	TMH	EET SEA
Total/NA	Analysis	245.1		1			422344	04/04/23 16:45	JL	EET SEA
	Instrument ID: TAC103									

Client Sample ID: MW-25
Lab Sample ID: 180-154079-36
Date Collected: 03/21/23 12:56
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	362909	04/11/23 17:52	K4WN	ELLE
	Instrument ID: 9915									

Client Sample ID: MW-26
Lab Sample ID: 180-154079-37
Date Collected: 03/20/23 14:05
Matrix: Water
Date Received: 03/24/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260D		1	5 mL	5 mL	431682	04/07/23 12:08	J1T	EET PIT
	Instrument ID: CHHP5									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Analyst References:

Lab: EET PIT
  Batch Type: Analysis
    J1T = Jianwu Tang
Lab: EET SEA
  Batch Type: Prep
    DLV = Diana Vallelunga
    TMH = Tammy Hua
  Batch Type: Analysis
    FCW = Fred Woo
    JL = Jensen Lees
    JLS = Joshua Sloan
Lab: ELLE
  Batch Type: Analysis
    K4WN = Miranda Campbell
    TQ4J = Corie Mellinger
    Y6ZN = Marissa Drexinger

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-3
Date Collected: 03/20/23 14:53
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-5
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	5.0	2.9	ug/L			04/07/23 16:31	1
Chloromethane	ND	H	5.0	3.9	ug/L			04/07/23 16:31	1
Vinyl chloride	ND	H	5.0	3.7	ug/L			04/07/23 16:31	1
Bromomethane	ND	H	5.0	4.5	ug/L			04/07/23 16:31	1
Chloroethane	ND	H	5.0	2.6	ug/L			04/07/23 16:31	1
Trichlorofluoromethane	ND	H	5.0	1.5	ug/L			04/07/23 16:31	1
1,1-Dichloroethene	ND	H	5.0	2.9	ug/L			04/07/23 16:31	1
Methylene Chloride	ND	H	5.0	3.9	ug/L			04/07/23 16:31	1
Methyl tert-butyl ether	ND	H	5.0	3.7	ug/L			04/07/23 16:31	1
trans-1,2-Dichloroethene	ND	H	5.0	2.5	ug/L			04/07/23 16:31	1
1,1-Dichloroethane	ND	H	5.0	1.8	ug/L			04/07/23 16:31	1
2,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 16:31	1
cis-1,2-Dichloroethene	ND	H	5.0	1.6	ug/L			04/07/23 16:31	1
Bromochloromethane	ND	H	5.0	1.9	ug/L			04/07/23 16:31	1
Chloroform	ND	H	5.0	2.1	ug/L			04/07/23 16:31	1
1,1,1-Trichloroethane	ND	H	5.0	2.5	ug/L			04/07/23 16:31	1
Carbon tetrachloride	ND	H	5.0	3.3	ug/L			04/07/23 16:31	1
1,1-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 16:31	1
Benzene	ND	H	5.0	2.0	ug/L			04/07/23 16:31	1
1,2-Dichloroethane	ND	H	5.0	1.5	ug/L			04/07/23 16:31	1
Trichloroethene	ND	H	5.0	1.5	ug/L			04/07/23 16:31	1
1,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 16:31	1
Dibromomethane	ND	H	5.0	2.2	ug/L			04/07/23 16:31	1
Dichlorobromomethane	ND	H	5.0	2.4	ug/L			04/07/23 16:31	1
cis-1,3-Dichloropropene	ND	H	5.0	1.6	ug/L			04/07/23 16:31	1
Toluene	ND	H	5.0	1.7	ug/L			04/07/23 16:31	1
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 16:31	1
1,1,2-Trichloroethane	ND	H	5.0	2.4	ug/L			04/07/23 16:31	1
Tetrachloroethene	ND	H	5.0	2.0	ug/L			04/07/23 16:31	1
1,3-Dichloropropane	ND	H	5.0	2.6	ug/L			04/07/23 16:31	1
Chlorodibromomethane	ND	H	5.0	2.4	ug/L			04/07/23 16:31	1
Ethylene Dibromide	ND	H	5.0	2.7	ug/L			04/07/23 16:31	1
Chlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:31	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	3.9	ug/L			04/07/23 16:31	1
Ethylbenzene	ND	H	5.0	2.2	ug/L			04/07/23 16:31	1
m-Xylene & p-Xylene	ND	H	5.0	1.9	ug/L			04/07/23 16:31	1
o-Xylene	ND	H	5.0	2.4	ug/L			04/07/23 16:31	1
Styrene	ND	H	5.0	1.3	ug/L			04/07/23 16:31	1
Bromoform	ND	H	5.0	2.6	ug/L			04/07/23 16:31	1
Isopropylbenzene	ND	H	5.0	2.3	ug/L			04/07/23 16:31	1
Bromobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:31	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	3.0	ug/L			04/07/23 16:31	1
1,2,3-Trichloropropane	ND	H	5.0	2.8	ug/L			04/07/23 16:31	1
N-Propylbenzene	ND	H	5.0	2.1	ug/L			04/07/23 16:31	1
2-Chlorotoluene	ND	H	5.0	1.9	ug/L			04/07/23 16:31	1
4-Chlorotoluene	ND	H	5.0	1.8	ug/L			04/07/23 16:31	1
tert-Butylbenzene	ND	H	5.0	1.8	ug/L			04/07/23 16:31	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.3	ug/L			04/07/23 16:31	1
sec-Butylbenzene	ND	H	5.0	2.4	ug/L			04/07/23 16:31	1

Client Sample ID: MW-3

Date Collected: 03/20/23 14:53
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-5

Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND	H	5.0	2.2	ug/L			04/07/23 16:31	1
1,3-Dichlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:31	1
1,4-Dichlorobenzene	ND	H	5.0	1.0	ug/L			04/07/23 16:31	1
n-Butylbenzene	ND	H	5.0	3.8	ug/L			04/07/23 16:31	1
1,2-Dichlorobenzene	ND	H	5.0	2.0	ug/L			04/07/23 16:31	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	3.1	ug/L			04/07/23 16:31	1
1,2,4-Trichlorobenzene	ND	H	5.0	3.7	ug/L			04/07/23 16:31	1
Hexachlorobutadiene	ND	H	5.0	1.8	ug/L			04/07/23 16:31	1
Naphthalene	ND	H	5.0	3.9	ug/L			04/07/23 16:31	1
1,2,3-Trichlorobenzene	ND	H	5.0	3.5	ug/L			04/07/23 16:31	1
1,3,5-Trimethylbenzene	ND	H	5.0	1.7	ug/L			04/07/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*53 - 124*		*04/07/23 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 151*		*04/07/23 16:31*	*1*
4-Bromofluorobenzene (Surr)	*95*		*49 - 118*		*04/07/23 16:31*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 132*		*04/07/23 16:31*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.31**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:31	1
Calcium	**23**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:31	1
Iron	**0.70**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:31	1
Magnesium	**12**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:31	1
Potassium	**0.69**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:31	1
Sodium	**9.2**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:31	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00045**	**J**	0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:48	1
Antimony	**0.00018**	**J**	0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:48	1
Barium	**0.0071**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:48	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:48	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:48	1
Chromium	**0.0011**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:48	1
Cobalt	**0.00056**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:48	1
Copper	ND		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:48	1
Lead	**0.00022**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:48	1
Manganese	**0.017**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:48	1
Nickel	**0.00066**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:48	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:48	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:48	1
Thallium	**0.000043**	**J**	0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:48	1
Vanadium	**0.0059**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:48	1
Zinc	**0.0013**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:48	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		03/31/23 11:29	04/04/23 15:14	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-4
Date Collected: 03/21/23 14:33
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 01:38	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 01:38	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 01:38	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 01:38	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 01:38	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 01:38	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 01:38	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 01:38	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 01:38	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 01:38	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 01:38	1
Naphthalene	**1.9**	**J H**	5.0	1.0	ug/L			04/05/23 01:38	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-4
Date Collected: 03/21/23 14:33
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 01:38	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 01:38	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 01:38	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 01:38	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/05/23 01:38*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/05/23 01:38*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/05/23 01:38*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/05/23 01:38*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:34	1
Calcium	**38**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:34	1
Iron	**2.5**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:34	1
Magnesium	**19**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:34	1
Potassium	**1.1**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:34	1
Sodium	**17**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:34	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0092**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:51	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:51	1
Barium	**0.079**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:51	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:51	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:51	1
Chromium	**0.00081**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:51	1
Cobalt	**0.00065**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:51	1
Copper	ND		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:51	1
Lead	**0.00010**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:51	1
Manganese	**0.81**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:51	1
Nickel	**0.0036**		0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:51	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:51	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:51	1
Thallium	**0.000031**	**J**	0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:51	1
Vanadium	**0.0066**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:51	1
Zinc	**0.0011**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:51	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		03/31/23 11:29	04/04/23 15:16	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-5
Date Collected: 03/21/23 18:30
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 02:00	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 02:00	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:00	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 02:00	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 02:00	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 02:00	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Chloroform	**0.99**	**J H**	1.0	0.30	ug/L			04/05/23 02:00	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 02:00	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 02:00	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 02:00	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:00	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 02:00	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 02:00	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1

Client Sample ID: MW-5

Date Collected: 03/21/23 18:30
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 02:00	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:00	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 02:00	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:00	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*04/05/23 02:00*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/05/23 02:00*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/05/23 02:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/05/23 02:00*	*1*

Client Sample ID: MW-6

Date Collected: 03/21/23 17:25
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 02:22	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 02:22	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:22	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 02:22	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 02:22	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-6

Date Collected: 03/21/23 17:25
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 02:22	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 02:22	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 02:22	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 02:22	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:22	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 02:22	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 02:22	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 02:22	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:22	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 02:22	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:22	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/05/23 02:22*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/05/23 02:22*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/05/23 02:22*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*04/05/23 02:22*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.40**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:38	1
Calcium	**7.2**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:38	1
Iron	**0.62**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:38	1
Magnesium	**3.6**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:38	1
Potassium	**0.22**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:38	1
Sodium	**5.4**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:38	1

Client Sample ID: MW-6
Lab Sample ID: 180-154079-8
Date Collected: 03/21/23 17:25
Matrix: Water
Date Received: 03/24/23 10:30

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00043**	**J**	0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:53	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:53	1
Barium	**0.012**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:53	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:53	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:53	1
Chromium	**0.0022**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:53	1
Cobalt	**0.00024**	**J**	0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:53	1
Copper	**0.0018**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:53	1
Lead	**0.00028**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:53	1
Manganese	**0.025**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:53	1
Nickel	**0.00082**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:53	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:53	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:53	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:53	1
Vanadium	**0.0046**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:53	1
Zinc	**0.0030**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:53	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:12	1

Client Sample ID: MW-7
Lab Sample ID: 180-154079-9
Date Collected: 03/21/23 10:42
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 02:15	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 02:15	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:15	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 02:15	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-7
Date Collected: 03/21/23 10:42
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 02:15	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 02:15	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 02:15	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 02:15	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 02:15	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:15	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 02:15	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 02:15	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 02:15	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:15	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 02:15	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:15	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/05/23 02:15*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/05/23 02:15*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*04/05/23 02:15*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*04/05/23 02:15*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-8
Date Collected: 03/21/23 13:21
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 02:16	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 02:16	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:16	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 02:16	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 02:16	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 02:16	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 02:16	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 02:16	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 02:16	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:16	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 02:16	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 02:16	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1

Client Sample ID: MW-8
Lab Sample ID: 180-154079-10

Date Collected: 03/21/23 13:21
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 02:16	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:16	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 02:16	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:16	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*04/05/23 02:16*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/05/23 02:16*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*04/05/23 02:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/05/23 02:16*	*1*

Client Sample ID: MW-9
Lab Sample ID: 180-154079-11

Date Collected: 03/22/23 10:30
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 22:00	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 22:00	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 22:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 22:00	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 22:00	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 22:00	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 22:00	1

Client Sample ID: MW-9
Lab Sample ID: 180-154079-11
Date Collected: 03/22/23 10:30
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 22:00	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 22:00	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:00	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 22:00	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 22:00	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 22:00	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 22:00	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 22:00	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 22:00	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 22:00	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:00	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 22:00	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 22:00	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:00	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:00	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/05/23 22:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/05/23 22:00*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*04/05/23 22:00*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/05/23 22:00*	*1*

Client Sample ID: MW-10
Lab Sample ID: 180-154079-12
Date Collected: 03/22/23 13:55
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-10
Date Collected: 03/22/23 13:55
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 22:20	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 22:20	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 22:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 22:20	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 22:20	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 22:20	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 22:20	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 22:20	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 22:20	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 22:20	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 22:20	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 22:20	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 22:20	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 22:20	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 22:20	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 22:20	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 22:20	1

Client Sample ID: MW-10
Lab Sample ID: 180-154079-12
Date Collected: 03/22/23 13:55
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:20	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 22:20	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 22:20	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:20	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:20	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/05/23 22:20*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/05/23 22:20*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*04/05/23 22:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 22:20*	*1*

Client Sample ID: MW-11
Lab Sample ID: 180-154079-13
Date Collected: 03/22/23 14:50
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 22:40	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 22:40	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 22:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 22:40	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 22:40	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 22:40	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 22:40	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 22:40	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 22:40	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 22:40	1

Client Sample ID: MW-11

Date Collected: 03/22/23 14:50
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 22:40	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 22:40	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 22:40	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:40	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 22:40	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 22:40	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 22:40	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 22:40	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 22:40	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 22:40	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 22:40	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 22:40	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:40	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 22:40	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 22:40	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 22:40	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:40	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:40	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*04/05/23 22:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*04/05/23 22:40*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*04/05/23 22:40*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 22:40*	*1*

Client Sample ID: MW-13

Date Collected: 03/21/23 12:17
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-13
Date Collected: 03/21/23 12:17
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 02:37	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 02:37	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:37	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 02:37	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 02:37	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 02:37	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 02:37	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 02:37	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 02:37	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:37	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 02:37	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 02:37	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 02:37	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:37	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1

Client Sample ID: MW-13
Lab Sample ID: 180-154079-14
Date Collected: 03/21/23 12:17
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 02:37	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:37	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*04/05/23 02:37*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/05/23 02:37*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*04/05/23 02:37*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 02:37*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:41	1
Calcium	**17**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:41	1
Iron	**0.079**	**J**	0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:41	1
Magnesium	**8.2**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:41	1
Potassium	**0.80**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:41	1
Sodium	**6.5**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:41	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0010**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:57	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:57	1
Barium	**0.017**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:57	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:57	1
Cadmium	**0.000046**	**J**	0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:57	1
Chromium	**0.0015**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:57	1
Cobalt	**0.00010**	**J**	0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:57	1
Copper	**0.00061**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:57	1
Lead	**0.00016**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:57	1
Manganese	**0.24**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:57	1
Nickel	**0.0054**		0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:57	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:57	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:57	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:57	1
Vanadium	**0.0066**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:57	1
Zinc	ND		0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:57	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:15	1

Client Sample ID: MW-14
Lab Sample ID: 180-154079-15
Date Collected: 03/20/23 13:12
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	5.0	2.9	ug/L			04/07/23 16:07	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-14
Date Collected: 03/20/23 13:12
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-15
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	5.0	3.9	ug/L			04/07/23 16:07	1
Vinyl chloride	ND	H	5.0	3.7	ug/L			04/07/23 16:07	1
Bromomethane	ND	H	5.0	4.5	ug/L			04/07/23 16:07	1
Chloroethane	ND	H	5.0	2.6	ug/L			04/07/23 16:07	1
Trichlorofluoromethane	ND	H	5.0	1.5	ug/L			04/07/23 16:07	1
1,1-Dichloroethene	ND	H	5.0	2.9	ug/L			04/07/23 16:07	1
Methylene Chloride	ND	H	5.0	3.9	ug/L			04/07/23 16:07	1
Methyl tert-butyl ether	ND	H	5.0	3.7	ug/L			04/07/23 16:07	1
trans-1,2-Dichloroethene	ND	H	5.0	2.5	ug/L			04/07/23 16:07	1
1,1-Dichloroethane	ND	H	5.0	1.8	ug/L			04/07/23 16:07	1
2,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 16:07	1
cis-1,2-Dichloroethene	ND	H	5.0	1.6	ug/L			04/07/23 16:07	1
Bromochloromethane	ND	H	5.0	1.9	ug/L			04/07/23 16:07	1
Chloroform	**5.1**	**H**	5.0	2.1	ug/L			04/07/23 16:07	1
1,1,1-Trichloroethane	ND	H	5.0	2.5	ug/L			04/07/23 16:07	1
Carbon tetrachloride	ND	H	5.0	3.3	ug/L			04/07/23 16:07	1
1,1-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 16:07	1
Benzene	ND	H	5.0	2.0	ug/L			04/07/23 16:07	1
1,2-Dichloroethane	ND	H	5.0	1.5	ug/L			04/07/23 16:07	1
Trichloroethene	ND	H	5.0	1.5	ug/L			04/07/23 16:07	1
1,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 16:07	1
Dibromomethane	ND	H	5.0	2.2	ug/L			04/07/23 16:07	1
Dichlorobromomethane	ND	H	5.0	2.4	ug/L			04/07/23 16:07	1
cis-1,3-Dichloropropene	ND	H	5.0	1.6	ug/L			04/07/23 16:07	1
Toluene	ND	H	5.0	1.7	ug/L			04/07/23 16:07	1
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 16:07	1
1,1,2-Trichloroethane	ND	H	5.0	2.4	ug/L			04/07/23 16:07	1
Tetrachloroethene	ND	H	5.0	2.0	ug/L			04/07/23 16:07	1
1,3-Dichloropropane	ND	H	5.0	2.6	ug/L			04/07/23 16:07	1
Chlorodibromomethane	ND	H	5.0	2.4	ug/L			04/07/23 16:07	1
Ethylene Dibromide	ND	H	5.0	2.7	ug/L			04/07/23 16:07	1
Chlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:07	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	3.9	ug/L			04/07/23 16:07	1
Ethylbenzene	ND	H	5.0	2.2	ug/L			04/07/23 16:07	1
m-Xylene & p-Xylene	ND	H	5.0	1.9	ug/L			04/07/23 16:07	1
o-Xylene	ND	H	5.0	2.4	ug/L			04/07/23 16:07	1
Styrene	ND	H	5.0	1.3	ug/L			04/07/23 16:07	1
Bromoform	ND	H	5.0	2.6	ug/L			04/07/23 16:07	1
Isopropylbenzene	ND	H	5.0	2.3	ug/L			04/07/23 16:07	1
Bromobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:07	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	3.0	ug/L			04/07/23 16:07	1
1,2,3-Trichloropropane	ND	H	5.0	2.8	ug/L			04/07/23 16:07	1
N-Propylbenzene	ND	H	5.0	2.1	ug/L			04/07/23 16:07	1
2-Chlorotoluene	ND	H	5.0	1.9	ug/L			04/07/23 16:07	1
4-Chlorotoluene	ND	H	5.0	1.8	ug/L			04/07/23 16:07	1
tert-Butylbenzene	ND	H	5.0	1.8	ug/L			04/07/23 16:07	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.3	ug/L			04/07/23 16:07	1
sec-Butylbenzene	ND	H	5.0	2.4	ug/L			04/07/23 16:07	1
4-Isopropyltoluene	ND	H	5.0	2.2	ug/L			04/07/23 16:07	1

Client Sample ID: MW-14

Date Collected: 03/20/23 13:12
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-15

Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:07	1
1,4-Dichlorobenzene	ND	H	5.0	1.0	ug/L			04/07/23 16:07	1
n-Butylbenzene	ND	H	5.0	3.8	ug/L			04/07/23 16:07	1
1,2-Dichlorobenzene	ND	H	5.0	2.0	ug/L			04/07/23 16:07	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	3.1	ug/L			04/07/23 16:07	1
1,2,4-Trichlorobenzene	ND	H	5.0	3.7	ug/L			04/07/23 16:07	1
Hexachlorobutadiene	ND	H	5.0	1.8	ug/L			04/07/23 16:07	1
Naphthalene	ND	H	5.0	3.9	ug/L			04/07/23 16:07	1
1,2,3-Trichlorobenzene	ND	H	5.0	3.5	ug/L			04/07/23 16:07	1
1,3,5-Trimethylbenzene	ND	H	5.0	1.7	ug/L			04/07/23 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*53 - 124*		*04/07/23 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 151*		*04/07/23 16:07*	*1*
4-Bromofluorobenzene (Surr)	*94*		*49 - 118*		*04/07/23 16:07*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 132*		*04/07/23 16:07*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.10**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:45	1
Calcium	**11**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:45	1
Iron	**0.17**	**J**	0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:45	1
Magnesium	**3.8**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:45	1
Potassium	**0.35**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:45	1
Sodium	**8.2**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:45	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00036**	**J**	0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:59	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:59	1
Barium	**0.0025**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:59	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:59	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:59	1
Chromium	**0.0017**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:59	1
Cobalt	**0.00022**	**J**	0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:59	1
Copper	ND		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:59	1
Lead	**0.00027**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:59	1
Manganese	**0.012**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:59	1
Nickel	**0.00031**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:59	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:59	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:59	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:59	1
Vanadium	**0.0048**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:59	1
Zinc	**0.0027**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:59	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:17	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-27
Date Collected: 03/20/23 15:43
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-16
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	5.0	2.9	ug/L			04/07/23 15:43	1
Chloromethane	ND	H	5.0	3.9	ug/L			04/07/23 15:43	1
Vinyl chloride	ND	H	5.0	3.7	ug/L			04/07/23 15:43	1
Bromomethane	ND	H	5.0	4.5	ug/L			04/07/23 15:43	1
Chloroethane	ND	H	5.0	2.6	ug/L			04/07/23 15:43	1
Trichlorofluoromethane	ND	H	5.0	1.5	ug/L			04/07/23 15:43	1
1,1-Dichloroethene	ND	H	5.0	2.9	ug/L			04/07/23 15:43	1
Methylene Chloride	ND	H	5.0	3.9	ug/L			04/07/23 15:43	1
Methyl tert-butyl ether	ND	H	5.0	3.7	ug/L			04/07/23 15:43	1
trans-1,2-Dichloroethene	ND	H	5.0	2.5	ug/L			04/07/23 15:43	1
1,1-Dichloroethane	ND	H	5.0	1.8	ug/L			04/07/23 15:43	1
2,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 15:43	1
cis-1,2-Dichloroethene	ND	H	5.0	1.6	ug/L			04/07/23 15:43	1
Bromochloromethane	ND	H	5.0	1.9	ug/L			04/07/23 15:43	1
Chloroform	**14**	**H**	5.0	2.1	ug/L			04/07/23 15:43	1
1,1,1-Trichloroethane	ND	H	5.0	2.5	ug/L			04/07/23 15:43	1
Carbon tetrachloride	**49**	**H**	5.0	3.3	ug/L			04/07/23 15:43	1
1,1-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 15:43	1
Benzene	ND	H	5.0	2.0	ug/L			04/07/23 15:43	1
1,2-Dichloroethane	ND	H	5.0	1.5	ug/L			04/07/23 15:43	1
Trichloroethene	ND	H	5.0	1.5	ug/L			04/07/23 15:43	1
1,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 15:43	1
Dibromomethane	ND	H	5.0	2.2	ug/L			04/07/23 15:43	1
Dichlorobromomethane	ND	H	5.0	2.4	ug/L			04/07/23 15:43	1
cis-1,3-Dichloropropene	ND	H	5.0	1.6	ug/L			04/07/23 15:43	1
Toluene	ND	H	5.0	1.7	ug/L			04/07/23 15:43	1
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 15:43	1
1,1,2-Trichloroethane	ND	H	5.0	2.4	ug/L			04/07/23 15:43	1
Tetrachloroethene	ND	H	5.0	2.0	ug/L			04/07/23 15:43	1
1,3-Dichloropropane	ND	H	5.0	2.6	ug/L			04/07/23 15:43	1
Chlorodibromomethane	ND	H	5.0	2.4	ug/L			04/07/23 15:43	1
Ethylene Dibromide	ND	H	5.0	2.7	ug/L			04/07/23 15:43	1
Chlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 15:43	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	3.9	ug/L			04/07/23 15:43	1
Ethylbenzene	ND	H	5.0	2.2	ug/L			04/07/23 15:43	1
m-Xylene & p-Xylene	ND	H	5.0	1.9	ug/L			04/07/23 15:43	1
o-Xylene	ND	H	5.0	2.4	ug/L			04/07/23 15:43	1
Styrene	ND	H	5.0	1.3	ug/L			04/07/23 15:43	1
Bromoform	ND	H	5.0	2.6	ug/L			04/07/23 15:43	1
Isopropylbenzene	ND	H	5.0	2.3	ug/L			04/07/23 15:43	1
Bromobenzene	ND	H	5.0	1.6	ug/L			04/07/23 15:43	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	3.0	ug/L			04/07/23 15:43	1
1,2,3-Trichloropropane	ND	H	5.0	2.8	ug/L			04/07/23 15:43	1
N-Propylbenzene	ND	H	5.0	2.1	ug/L			04/07/23 15:43	1
2-Chlorotoluene	ND	H	5.0	1.9	ug/L			04/07/23 15:43	1
4-Chlorotoluene	ND	H	5.0	1.8	ug/L			04/07/23 15:43	1
tert-Butylbenzene	ND	H	5.0	1.8	ug/L			04/07/23 15:43	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.3	ug/L			04/07/23 15:43	1
sec-Butylbenzene	ND	H	5.0	2.4	ug/L			04/07/23 15:43	1

Client Sample ID: MW-27

Date Collected: 03/20/23 15:43
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-16
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND	H	5.0	2.2	ug/L			04/07/23 15:43	1
1,3-Dichlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 15:43	1
1,4-Dichlorobenzene	ND	H	5.0	1.0	ug/L			04/07/23 15:43	1
n-Butylbenzene	ND	H	5.0	3.8	ug/L			04/07/23 15:43	1
1,2-Dichlorobenzene	ND	H	5.0	2.0	ug/L			04/07/23 15:43	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	3.1	ug/L			04/07/23 15:43	1
1,2,4-Trichlorobenzene	ND	H	5.0	3.7	ug/L			04/07/23 15:43	1
Hexachlorobutadiene	ND	H	5.0	1.8	ug/L			04/07/23 15:43	1
Naphthalene	ND	H	5.0	3.9	ug/L			04/07/23 15:43	1
1,2,3-Trichlorobenzene	ND	H	5.0	3.5	ug/L			04/07/23 15:43	1
1,3,5-Trimethylbenzene	ND	H	5.0	1.7	ug/L			04/07/23 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*53 - 124*		*04/07/23 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 151*		*04/07/23 15:43*	*1*
4-Bromofluorobenzene (Surr)	*95*		*49 - 118*		*04/07/23 15:43*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 132*		*04/07/23 15:43*	*1*

Client Sample ID: MW-28

Date Collected: 03/21/23 11:46
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 02:57	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 02:57	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:57	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 02:57	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 02:57	1

Client Sample ID: MW-28
Lab Sample ID: 180-154079-17
Date Collected: 03/21/23 11:46
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 02:57	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 02:57	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 02:57	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 02:57	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 02:57	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 02:57	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 02:57	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 02:57	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 02:57	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 02:57	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 02:57	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*04/05/23 02:57*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/05/23 02:57*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*04/05/23 02:57*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 02:57*	*1*

Client Sample ID: MW-29
Lab Sample ID: 180-154079-18
Date Collected: 03/21/23 14:59
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-29
Date Collected: 03/21/23 14:59
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 03:18	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 03:18	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 03:18	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 03:18	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 03:18	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 03:18	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 03:18	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 03:18	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 03:18	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 03:18	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 03:18	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 03:18	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 03:18	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1

Client Sample ID: MW-29

Date Collected: 03/21/23 14:59
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:18	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 03:18	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:18	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/05/23 03:18*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/05/23 03:18*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*04/05/23 03:18*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 03:18*	*1*

Client Sample ID: MW-30

Date Collected: 03/21/23 16:58
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 03:38	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 03:38	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 03:38	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 03:38	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 03:38	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1

Client Sample ID: MW-30
Lab Sample ID: 180-154079-19
Date Collected: 03/21/23 16:58
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 03:38	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 03:38	1
cis-1,2-Dichloroethene	**6.0**	**H**	1.0	0.30	ug/L			04/05/23 03:38	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 03:38	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 03:38	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 03:38	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 03:38	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 03:38	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 03:38	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:38	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 03:38	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:38	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*04/05/23 03:38*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*04/05/23 03:38*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*04/05/23 03:38*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 03:38*	*1*

Client Sample ID: MW-31
Lab Sample ID: 180-154079-20
Date Collected: 03/21/23 18:03
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-31
Date Collected: 03/21/23 18:03
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 03:59	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 03:59	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 03:59	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 03:59	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 03:59	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 03:59	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 03:59	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 03:59	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 03:59	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 03:59	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 03:59	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 03:59	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 03:59	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 03:59	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1

Client Sample ID: MW-31

Date Collected: 03/21/23 18:03
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 03:59	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 03:59	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*04/05/23 03:59*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/05/23 03:59*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*04/05/23 03:59*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/05/23 03:59*	*1*

Client Sample ID: MW-100

Date Collected: 03/22/23 16:45
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 23:00	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 23:00	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 23:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 23:00	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 23:00	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 23:00	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 23:00	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 23:00	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 23:00	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 23:00	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 23:00	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 23:00	1

Client Sample ID: MW-100
Lab Sample ID: 180-154079-21

Date Collected: 03/22/23 16:45
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.30	ug/L			04/05/23 23:00	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 23:00	1
cis-1,2-Dichloroethene	**0.41**	**J**	1.0	0.30	ug/L			04/05/23 23:00	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 23:00	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 23:00	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 23:00	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 23:00	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 23:00	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 23:00	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 23:00	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 23:00	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:00	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 23:00	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 23:00	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 23:00	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Trichloroethene	**4.6**		1.0	0.30	ug/L			04/05/23 23:00	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:00	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*04/05/23 23:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/05/23 23:00*	*1*
Dibromofluoromethane (Surr)	*88*		*80 - 120*		*04/05/23 23:00*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/05/23 23:00*	*1*

Client Sample ID: MW-101
Lab Sample ID: 180-154079-22

Date Collected: 03/22/23 16:17
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 23:20	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 23:20	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-101
Date Collected: 03/22/23 16:17
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 23:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 23:20	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 23:20	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 23:20	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 23:20	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 23:20	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 23:20	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 23:20	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 23:20	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 23:20	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 23:20	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 23:20	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 23:20	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 23:20	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 23:20	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 23:20	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 23:20	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 23:20	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 23:20	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:20	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 23:20	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 23:20	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 23:20	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Trichloroethene	**2.7**		1.0	0.30	ug/L			04/05/23 23:20	1

Client Sample ID: MW-101

Date Collected: 03/22/23 16:17
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-22

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:20	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/05/23 23:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/05/23 23:20*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*04/05/23 23:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/05/23 23:20*	*1*

Client Sample ID: MW-102

Date Collected: 03/22/23 17:15
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-23

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 23:40	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 23:40	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 23:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 23:40	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 23:40	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 23:40	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 23:40	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 23:40	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 23:40	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 23:40	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 23:40	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 23:40	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 23:40	1
cis-1,2-Dichloroethene	**0.35**	**J**	1.0	0.30	ug/L			04/05/23 23:40	1

Client Sample ID: MW-102
Lab Sample ID: 180-154079-23

Date Collected: 03/22/23 17:15
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 23:40	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 23:40	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 23:40	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 23:40	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 23:40	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 23:40	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 23:40	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 23:40	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:40	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 23:40	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 23:40	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 23:40	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Trichloroethene	**26**		1.0	0.30	ug/L			04/05/23 23:40	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:40	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*04/05/23 23:40*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/05/23 23:40*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*04/05/23 23:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/05/23 23:40*	*1*

Client Sample ID: MW-103
Lab Sample ID: 180-154079-24

Date Collected: 03/22/23 17:50
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 22:47	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 22:47	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 22:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 22:47	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-103
Date Collected: 03/22/23 17:50
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 22:47	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 22:47	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 22:47	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 22:47	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 22:47	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:47	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 22:47	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 22:47	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 22:47	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 22:47	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 22:47	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 22:47	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 22:47	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:47	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 22:47	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 22:47	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:47	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:47	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 22:47	1

Client Sample ID: MW-103
Lab Sample ID: 180-154079-24

Date Collected: 03/22/23 17:50
Matrix: Water
Date Received: 03/24/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/05/23 22:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/05/23 22:47*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/05/23 22:47*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/05/23 22:47*	*1*

Client Sample ID: DUP-1
Lab Sample ID: 180-154079-25

Date Collected: 03/20/23 14:56
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	5.0	2.9	ug/L			04/07/23 16:55	1
Chloromethane	ND	H	5.0	3.9	ug/L			04/07/23 16:55	1
Vinyl chloride	ND	H	5.0	3.7	ug/L			04/07/23 16:55	1
Bromomethane	ND	H	5.0	4.5	ug/L			04/07/23 16:55	1
Chloroethane	ND	H	5.0	2.6	ug/L			04/07/23 16:55	1
Trichlorofluoromethane	ND	H	5.0	1.5	ug/L			04/07/23 16:55	1
1,1-Dichloroethene	ND	H	5.0	2.9	ug/L			04/07/23 16:55	1
Methylene Chloride	ND	H	5.0	3.9	ug/L			04/07/23 16:55	1
Methyl tert-butyl ether	ND	H	5.0	3.7	ug/L			04/07/23 16:55	1
trans-1,2-Dichloroethene	ND	H	5.0	2.5	ug/L			04/07/23 16:55	1
1,1-Dichloroethane	ND	H	5.0	1.8	ug/L			04/07/23 16:55	1
2,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 16:55	1
cis-1,2-Dichloroethene	ND	H	5.0	1.6	ug/L			04/07/23 16:55	1
Bromochloromethane	ND	H	5.0	1.9	ug/L			04/07/23 16:55	1
Chloroform	ND	H	5.0	2.1	ug/L			04/07/23 16:55	1
1,1,1-Trichloroethane	ND	H	5.0	2.5	ug/L			04/07/23 16:55	1
Carbon tetrachloride	ND	H	5.0	3.3	ug/L			04/07/23 16:55	1
1,1-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 16:55	1
Benzene	ND	H	5.0	2.0	ug/L			04/07/23 16:55	1
1,2-Dichloroethane	ND	H	5.0	1.5	ug/L			04/07/23 16:55	1
Trichloroethene	ND	H	5.0	1.5	ug/L			04/07/23 16:55	1
1,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 16:55	1
Dibromomethane	ND	H	5.0	2.2	ug/L			04/07/23 16:55	1
Dichlorobromomethane	ND	H	5.0	2.4	ug/L			04/07/23 16:55	1
cis-1,3-Dichloropropene	ND	H	5.0	1.6	ug/L			04/07/23 16:55	1
Toluene	ND	H	5.0	1.7	ug/L			04/07/23 16:55	1
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 16:55	1
1,1,2-Trichloroethane	ND	H	5.0	2.4	ug/L			04/07/23 16:55	1
Tetrachloroethene	ND	H	5.0	2.0	ug/L			04/07/23 16:55	1
1,3-Dichloropropane	ND	H	5.0	2.6	ug/L			04/07/23 16:55	1
Chlorodibromomethane	ND	H	5.0	2.4	ug/L			04/07/23 16:55	1
Ethylene Dibromide	ND	H	5.0	2.7	ug/L			04/07/23 16:55	1
Chlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:55	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	3.9	ug/L			04/07/23 16:55	1
Ethylbenzene	ND	H	5.0	2.2	ug/L			04/07/23 16:55	1
m-Xylene & p-Xylene	ND	H	5.0	1.9	ug/L			04/07/23 16:55	1
o-Xylene	ND	H	5.0	2.4	ug/L			04/07/23 16:55	1
Styrene	ND	H	5.0	1.3	ug/L			04/07/23 16:55	1
Bromoform	ND	H	5.0	2.6	ug/L			04/07/23 16:55	1

Client Sample ID: DUP-1
Date Collected: 03/20/23 14:56
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-25
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND	H	5.0	2.3	ug/L			04/07/23 16:55	1
Bromobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:55	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	3.0	ug/L			04/07/23 16:55	1
1,2,3-Trichloropropane	ND	H	5.0	2.8	ug/L			04/07/23 16:55	1
N-Propylbenzene	ND	H	5.0	2.1	ug/L			04/07/23 16:55	1
2-Chlorotoluene	ND	H	5.0	1.9	ug/L			04/07/23 16:55	1
4-Chlorotoluene	ND	H	5.0	1.8	ug/L			04/07/23 16:55	1
tert-Butylbenzene	ND	H	5.0	1.8	ug/L			04/07/23 16:55	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.3	ug/L			04/07/23 16:55	1
sec-Butylbenzene	ND	H	5.0	2.4	ug/L			04/07/23 16:55	1
4-Isopropyltoluene	ND	H	5.0	2.2	ug/L			04/07/23 16:55	1
1,3-Dichlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 16:55	1
1,4-Dichlorobenzene	ND	H	5.0	1.0	ug/L			04/07/23 16:55	1
n-Butylbenzene	ND	H	5.0	3.8	ug/L			04/07/23 16:55	1
1,2-Dichlorobenzene	ND	H	5.0	2.0	ug/L			04/07/23 16:55	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	3.1	ug/L			04/07/23 16:55	1
1,2,4-Trichlorobenzene	ND	H	5.0	3.7	ug/L			04/07/23 16:55	1
Hexachlorobutadiene	ND	H	5.0	1.8	ug/L			04/07/23 16:55	1
Naphthalene	ND	H	5.0	3.9	ug/L			04/07/23 16:55	1
1,2,3-Trichlorobenzene	ND	H	5.0	3.5	ug/L			04/07/23 16:55	1
1,3,5-Trimethylbenzene	ND	H	5.0	1.7	ug/L			04/07/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*53 - 124*		*04/07/23 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*52 - 151*		*04/07/23 16:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*49 - 118*		*04/07/23 16:55*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 132*		*04/07/23 16:55*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.31**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:48	1
Calcium	**23**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:48	1
Iron	**0.75**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:48	1
Magnesium	**12**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:48	1
Potassium	**0.57**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:48	1
Sodium	**9.3**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:48	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00048**	**J**	0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:03	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:03	1
Barium	**0.0074**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:03	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:03	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:03	1
Chromium	**0.0013**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:03	1
Cobalt	**0.00056**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:03	1
Copper	**0.00069**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:03	1
Lead	**0.00020**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:03	1
Manganese	**0.017**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:03	1
Nickel	**0.00073**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:03	1

Client Sample ID: DUP-1
Lab Sample ID: 180-154079-25
Date Collected: 03/20/23 14:56
Matrix: Water
Date Received: 03/24/23 10:30

Method: EPA 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:03	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:03	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:03	1
Vanadium	**0.0062**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:03	1
Zinc	**0.0015**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:03	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:19	1

Client Sample ID: DUP-2
Lab Sample ID: 180-154079-26
Date Collected: 03/22/23 13:25
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 23:10	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 23:10	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 23:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 23:10	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 23:10	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 23:10	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 23:10	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 23:10	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 23:10	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 23:10	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Chloroform	**130**		1.0	0.30	ug/L			04/05/23 23:10	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 23:10	1
cis-1,2-Dichloroethene	**0.58**	**J**	1.0	0.30	ug/L			04/05/23 23:10	1

Client Sample ID: DUP-2
Lab Sample ID: 180-154079-26
Date Collected: 03/22/23 13:25
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 23:10	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 23:10	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 23:10	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 23:10	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 23:10	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 23:10	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 23:10	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 23:10	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:10	1
Tetrachloroethene	**8.9**		1.0	0.30	ug/L			04/05/23 23:10	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 23:10	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 23:10	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Trichloroethene	**160**		1.0	0.30	ug/L			04/05/23 23:10	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:10	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/05/23 23:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/05/23 23:10*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*04/05/23 23:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/05/23 23:10*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**920**	**H**	10	3.0	ug/L			04/13/23 18:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/13/23 18:58*	*10*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*04/13/23 18:58*	*10*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*04/13/23 18:58*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/13/23 18:58*	*10*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.45**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:52	1
Calcium	**35**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:52	1
Iron	**0.62**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:52	1
Magnesium	**16**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:52	1
Potassium	**0.97**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:52	1
Sodium	**23**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:52	1

Client Sample ID: DUP-2
Lab Sample ID: 180-154079-26
Date Collected: 03/22/23 13:25
Matrix: Water
Date Received: 03/24/23 10:30

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0018**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:05	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:05	1
Barium	**0.031**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:05	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:05	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:05	1
Chromium	**0.0012**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:05	1
Cobalt	**0.0016**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:05	1
Copper	**0.00091**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:05	1
Lead	**0.00021**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:05	1
Manganese	**2.4**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:05	1
Nickel	**0.0050**		0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:05	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:05	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:05	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:05	1
Vanadium	**0.015**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:05	1
Zinc	**0.0031**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:05	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:21	1

Client Sample ID: MW-15
Lab Sample ID: 180-154079-27
Date Collected: 03/20/23 16:08
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	5.0	2.9	ug/L			04/07/23 14:31	1
Chloromethane	ND	H	5.0	3.9	ug/L			04/07/23 14:31	1
Vinyl chloride	ND	H	5.0	3.7	ug/L			04/07/23 14:31	1
Bromomethane	ND	H	5.0	4.5	ug/L			04/07/23 14:31	1
Chloroethane	ND	H	5.0	2.6	ug/L			04/07/23 14:31	1
Trichlorofluoromethane	ND	H	5.0	1.5	ug/L			04/07/23 14:31	1
1,1-Dichloroethene	ND	H	5.0	2.9	ug/L			04/07/23 14:31	1
Methylene Chloride	ND	H	5.0	3.9	ug/L			04/07/23 14:31	1
Methyl tert-butyl ether	ND	H	5.0	3.7	ug/L			04/07/23 14:31	1
trans-1,2-Dichloroethene	ND	H	5.0	2.5	ug/L			04/07/23 14:31	1
1,1-Dichloroethane	ND	H	5.0	1.8	ug/L			04/07/23 14:31	1
2,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 14:31	1
cis-1,2-Dichloroethene	ND	H	5.0	1.6	ug/L			04/07/23 14:31	1
Bromochloromethane	ND	H	5.0	1.9	ug/L			04/07/23 14:31	1
Chloroform	ND	H	5.0	2.1	ug/L			04/07/23 14:31	1
1,1,1-Trichloroethane	ND	H	5.0	2.5	ug/L			04/07/23 14:31	1
Carbon tetrachloride	ND	H	5.0	3.3	ug/L			04/07/23 14:31	1
1,1-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 14:31	1
Benzene	ND	H	5.0	2.0	ug/L			04/07/23 14:31	1
1,2-Dichloroethane	ND	H	5.0	1.5	ug/L			04/07/23 14:31	1
Trichloroethene	ND	H	5.0	1.5	ug/L			04/07/23 14:31	1
1,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 14:31	1
Dibromomethane	ND	H	5.0	2.2	ug/L			04/07/23 14:31	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-15
Date Collected: 03/20/23 16:08
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-27
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND	H	5.0	2.4	ug/L			04/07/23 14:31	1
cis-1,3-Dichloropropene	ND	H	5.0	1.6	ug/L			04/07/23 14:31	1
Toluene	ND	H	5.0	1.7	ug/L			04/07/23 14:31	1
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 14:31	1
1,1,2-Trichloroethane	ND	H	5.0	2.4	ug/L			04/07/23 14:31	1
Tetrachloroethene	ND	H	5.0	2.0	ug/L			04/07/23 14:31	1
1,3-Dichloropropane	ND	H	5.0	2.6	ug/L			04/07/23 14:31	1
Chlorodibromomethane	ND	H	5.0	2.4	ug/L			04/07/23 14:31	1
Ethylene Dibromide	ND	H	5.0	2.7	ug/L			04/07/23 14:31	1
Chlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 14:31	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	3.9	ug/L			04/07/23 14:31	1
Ethylbenzene	ND	H	5.0	2.2	ug/L			04/07/23 14:31	1
m-Xylene & p-Xylene	ND	H	5.0	1.9	ug/L			04/07/23 14:31	1
o-Xylene	ND	H	5.0	2.4	ug/L			04/07/23 14:31	1
Styrene	ND	H	5.0	1.3	ug/L			04/07/23 14:31	1
Bromoform	ND	H	5.0	2.6	ug/L			04/07/23 14:31	1
Isopropylbenzene	ND	H	5.0	2.3	ug/L			04/07/23 14:31	1
Bromobenzene	ND	H	5.0	1.6	ug/L			04/07/23 14:31	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	3.0	ug/L			04/07/23 14:31	1
1,2,3-Trichloropropane	ND	H	5.0	2.8	ug/L			04/07/23 14:31	1
N-Propylbenzene	ND	H	5.0	2.1	ug/L			04/07/23 14:31	1
2-Chlorotoluene	ND	H	5.0	1.9	ug/L			04/07/23 14:31	1
4-Chlorotoluene	ND	H	5.0	1.8	ug/L			04/07/23 14:31	1
tert-Butylbenzene	ND	H	5.0	1.8	ug/L			04/07/23 14:31	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.3	ug/L			04/07/23 14:31	1
sec-Butylbenzene	ND	H	5.0	2.4	ug/L			04/07/23 14:31	1
4-Isopropyltoluene	ND	H	5.0	2.2	ug/L			04/07/23 14:31	1
1,3-Dichlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 14:31	1
1,4-Dichlorobenzene	ND	H	5.0	1.0	ug/L			04/07/23 14:31	1
n-Butylbenzene	ND	H	5.0	3.8	ug/L			04/07/23 14:31	1
1,2-Dichlorobenzene	ND	H	5.0	2.0	ug/L			04/07/23 14:31	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	3.1	ug/L			04/07/23 14:31	1
1,2,4-Trichlorobenzene	ND	H	5.0	3.7	ug/L			04/07/23 14:31	1
Hexachlorobutadiene	ND	H	5.0	1.8	ug/L			04/07/23 14:31	1
Naphthalene	ND	H	5.0	3.9	ug/L			04/07/23 14:31	1
1,2,3-Trichlorobenzene	ND	H	5.0	3.5	ug/L			04/07/23 14:31	1
1,3,5-Trimethylbenzene	ND	H	5.0	1.7	ug/L			04/07/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*53 - 124*		*04/07/23 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 151*		*04/07/23 14:31*	*1*
4-Bromofluorobenzene (Surr)	*87*		*49 - 118*		*04/07/23 14:31*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 132*		*04/07/23 14:31*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.25**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 20:04	1
Calcium	**18**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 20:04	1
Iron	**0.31**	**J**	0.50	0.061	mg/L		04/04/23 18:24	04/05/23 20:04	1
Magnesium	**8.0**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 20:04	1

Client Sample ID: MW-15
Lab Sample ID: 180-154079-27
Date Collected: 03/20/23 16:08
Matrix: Water
Date Received: 03/24/23 10:30

Method: EPA 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**0.54**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 20:04	1
Sodium	**14**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 20:04	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0010**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:20	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:20	1
Barium	**0.0065**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:20	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:20	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:20	1
Chromium	**0.0012**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:20	1
Cobalt	**0.00032**	**J**	0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:20	1
Copper	**0.0011**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:20	1
Lead	**0.00010**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:20	1
Manganese	**0.028**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:20	1
Nickel	**0.00073**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:20	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:20	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:20	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:20	1
Vanadium	**0.0073**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:20	1
Zinc	**0.0019**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:20	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:23	1

Client Sample ID: MW-16
Lab Sample ID: 180-154079-28
Date Collected: 03/21/23 10:10
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 04:19	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 04:19	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 04:19	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 04:19	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-16
Date Collected: 03/21/23 10:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-28
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 04:19	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 04:19	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Chloroform	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 04:19	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 04:19	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 04:19	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 04:19	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 04:19	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 04:19	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 04:19	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:19	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 04:19	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 04:19	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/05/23 04:19*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*04/05/23 04:19*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*04/05/23 04:19*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 04:19*	*1*

Client Sample ID: MW-16
Lab Sample ID: 180-154079-28
Date Collected: 03/21/23 10:10
Matrix: Water
Date Received: 03/24/23 10:30

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.88		0.50	0.10	mg/L		04/04/23 18:24	04/05/23 20:07	1
Calcium	38		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 20:07	1
Iron	71		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 20:07	1
Magnesium	15		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 20:07	1
Potassium	1.3	J	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 20:07	1
Sodium	13		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 20:07	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:23	1
Antimony	0.00015	J	0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:23	1
Barium	0.12		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:23	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:23	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:23	1
Chromium	0.013		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:23	1
Cobalt	0.0011		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:23	1
Copper	0.0033		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:23	1
Lead	0.00062		0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:23	1
Manganese	0.59		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:23	1
Nickel	0.0083		0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:23	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:23	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:23	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:23	1
Vanadium	0.0050		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:23	1
Zinc	0.0073		0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:23	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:26	1

Client Sample ID: MW-17
Lab Sample ID: 180-154079-29
Date Collected: 03/20/23 16:42
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	5.0	2.9	ug/L			04/07/23 12:32	1
Chloromethane	ND	H	5.0	3.9	ug/L			04/07/23 12:32	1
Vinyl chloride	ND	H	5.0	3.7	ug/L			04/07/23 12:32	1
Bromomethane	ND	H	5.0	4.5	ug/L			04/07/23 12:32	1
Chloroethane	ND	H	5.0	2.6	ug/L			04/07/23 12:32	1
Trichlorofluoromethane	ND	H	5.0	1.5	ug/L			04/07/23 12:32	1
1,1-Dichloroethene	ND	H	5.0	2.9	ug/L			04/07/23 12:32	1
Methylene Chloride	ND	H	5.0	3.9	ug/L			04/07/23 12:32	1
Methyl tert-butyl ether	ND	H	5.0	3.7	ug/L			04/07/23 12:32	1
trans-1,2-Dichloroethene	ND	H	5.0	2.5	ug/L			04/07/23 12:32	1
1,1-Dichloroethane	ND	H	5.0	1.8	ug/L			04/07/23 12:32	1
2,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 12:32	1
cis-1,2-Dichloroethene	ND	H	5.0	1.6	ug/L			04/07/23 12:32	1
Bromochloromethane	ND	H	5.0	1.9	ug/L			04/07/23 12:32	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-17
Date Collected: 03/20/23 16:42
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-29
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND	H	5.0	2.1	ug/L			04/07/23 12:32	1
1,1,1-Trichloroethane	ND	H	5.0	2.5	ug/L			04/07/23 12:32	1
Carbon tetrachloride	ND	H	5.0	3.3	ug/L			04/07/23 12:32	1
1,1-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 12:32	1
Benzene	ND	H	5.0	2.0	ug/L			04/07/23 12:32	1
1,2-Dichloroethane	ND	H	5.0	1.5	ug/L			04/07/23 12:32	1
Trichloroethene	ND	H	5.0	1.5	ug/L			04/07/23 12:32	1
1,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 12:32	1
Dibromomethane	ND	H	5.0	2.2	ug/L			04/07/23 12:32	1
Dichlorobromomethane	ND	H	5.0	2.4	ug/L			04/07/23 12:32	1
cis-1,3-Dichloropropene	ND	H	5.0	1.6	ug/L			04/07/23 12:32	1
Toluene	ND	H	5.0	1.7	ug/L			04/07/23 12:32	1
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 12:32	1
1,1,2-Trichloroethane	ND	H	5.0	2.4	ug/L			04/07/23 12:32	1
Tetrachloroethene	ND	H	5.0	2.0	ug/L			04/07/23 12:32	1
1,3-Dichloropropane	ND	H	5.0	2.6	ug/L			04/07/23 12:32	1
Chlorodibromomethane	ND	H	5.0	2.4	ug/L			04/07/23 12:32	1
Ethylene Dibromide	ND	H	5.0	2.7	ug/L			04/07/23 12:32	1
Chlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 12:32	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	3.9	ug/L			04/07/23 12:32	1
Ethylbenzene	ND	H	5.0	2.2	ug/L			04/07/23 12:32	1
m-Xylene & p-Xylene	ND	H	5.0	1.9	ug/L			04/07/23 12:32	1
o-Xylene	ND	H	5.0	2.4	ug/L			04/07/23 12:32	1
Styrene	ND	H	5.0	1.3	ug/L			04/07/23 12:32	1
Bromoform	ND	H	5.0	2.6	ug/L			04/07/23 12:32	1
Isopropylbenzene	ND	H	5.0	2.3	ug/L			04/07/23 12:32	1
Bromobenzene	ND	H	5.0	1.6	ug/L			04/07/23 12:32	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	3.0	ug/L			04/07/23 12:32	1
1,2,3-Trichloropropane	ND	H	5.0	2.8	ug/L			04/07/23 12:32	1
N-Propylbenzene	ND	H	5.0	2.1	ug/L			04/07/23 12:32	1
2-Chlorotoluene	ND	H	5.0	1.9	ug/L			04/07/23 12:32	1
4-Chlorotoluene	ND	H	5.0	1.8	ug/L			04/07/23 12:32	1
tert-Butylbenzene	ND	H	5.0	1.8	ug/L			04/07/23 12:32	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.3	ug/L			04/07/23 12:32	1
sec-Butylbenzene	ND	H	5.0	2.4	ug/L			04/07/23 12:32	1
4-Isopropyltoluene	ND	H	5.0	2.2	ug/L			04/07/23 12:32	1
1,3-Dichlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 12:32	1
1,4-Dichlorobenzene	ND	H	5.0	1.0	ug/L			04/07/23 12:32	1
n-Butylbenzene	ND	H	5.0	3.8	ug/L			04/07/23 12:32	1
1,2-Dichlorobenzene	ND	H	5.0	2.0	ug/L			04/07/23 12:32	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	3.1	ug/L			04/07/23 12:32	1
1,2,4-Trichlorobenzene	ND	H	5.0	3.7	ug/L			04/07/23 12:32	1
Hexachlorobutadiene	ND	H	5.0	1.8	ug/L			04/07/23 12:32	1
Naphthalene	ND	H	5.0	3.9	ug/L			04/07/23 12:32	1
1,2,3-Trichlorobenzene	ND	H	5.0	3.5	ug/L			04/07/23 12:32	1
1,3,5-Trimethylbenzene	ND	H	5.0	1.7	ug/L			04/07/23 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*53 - 124*		*04/07/23 12:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 151*		*04/07/23 12:32*	*1*

Client Sample ID: MW-17
Lab Sample ID: 180-154079-29
Date Collected: 03/20/23 16:42
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*49 - 118*		*04/07/23 12:32*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 132*		*04/07/23 12:32*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.16**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 20:11	1
Calcium	**27**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 20:11	1
Iron	**0.32**	**J**	0.50	0.061	mg/L		04/04/23 18:24	04/05/23 20:11	1
Magnesium	**13**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 20:11	1
Potassium	**0.93**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 20:11	1
Sodium	**12**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 20:11	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0011**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:25	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:25	1
Barium	**0.0046**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:25	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:25	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:25	1
Chromium	**0.00075**	**J**	0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:25	1
Cobalt	**0.00021**	**J**	0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:25	1
Copper	**0.0019**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:25	1
Lead	**0.00010**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:25	1
Manganese	**0.12**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:25	1
Nickel	**0.00046**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:25	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:25	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:25	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:25	1
Vanadium	**0.0063**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:25	1
Zinc	**0.0026**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:25	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:28	1

Client Sample ID: MW-18
Lab Sample ID: 180-154079-30
Date Collected: 03/21/23 11:23
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/05/23 04:40	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-18
Date Collected: 03/21/23 11:23
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/05/23 04:40	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/05/23 04:40	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/05/23 04:40	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
Benzene	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
Bromoform	ND	H	4.0	1.0	ug/L			04/05/23 04:40	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
Carbon tetrachloride	**24**	**H**	1.0	0.30	ug/L			04/05/23 04:40	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/05/23 04:40	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Chloroform	**2.8**	**H**	1.0	0.30	ug/L			04/05/23 04:40	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/05/23 04:40	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/05/23 04:40	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/05/23 04:40	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/05/23 04:40	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/05/23 04:40	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/05/23 04:40	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/05/23 04:40	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/05/23 04:40	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
Styrene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/05/23 04:40	1
Tetrachloroethene	**1.9**	**H**	1.0	0.30	ug/L			04/05/23 04:40	1
Toluene	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/05/23 04:40	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Trichloroethene	**47**	**H**	1.0	0.30	ug/L			04/05/23 04:40	1

Client Sample ID: MW-18
Lab Sample ID: 180-154079-30
Date Collected: 03/21/23 11:23
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/05/23 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*04/05/23 04:40*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/05/23 04:40*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*04/05/23 04:40*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/05/23 04:40*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.10**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 20:14	1
Calcium	**37**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 20:14	1
Iron	**0.30**	**J**	0.50	0.061	mg/L		04/04/23 18:24	04/05/23 20:14	1
Magnesium	**18**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 20:14	1
Potassium	**0.70**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 20:14	1
Sodium	**17**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 20:14	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00090**	**J**	0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:28	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:28	1
Barium	**0.0071**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:28	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:28	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:28	1
Chromium	**0.0015**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:28	1
Cobalt	**0.00024**	**J**	0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:28	1
Copper	ND		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:28	1
Lead	**0.00011**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:28	1
Manganese	**0.013**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:28	1
Nickel	**0.00038**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:28	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:28	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:28	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:28	1
Vanadium	**0.010**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:28	1
Zinc	**0.00099**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:28	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:30	1

Client Sample ID: MW-19
Lab Sample ID: 180-154079-31
Date Collected: 03/22/23 11:10
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-19
Date Collected: 03/22/23 11:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-31
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 23:32	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 23:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 23:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 23:32	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 23:32	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 23:32	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 23:32	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 23:32	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 23:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:32	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 23:32	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 23:32	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 23:32	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 23:32	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 23:32	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 23:32	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 23:32	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 23:32	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:32	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-19
Date Collected: 03/22/23 11:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-31
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 23:32	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 23:32	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:32	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:32	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/05/23 23:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/05/23 23:32*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/05/23 23:32*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/05/23 23:32*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.10	mg/L		04/04/23 18:24	04/05/23 20:18	1
Calcium	**16**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 20:18	1
Iron	ND		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 20:18	1
Magnesium	**7.8**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 20:18	1
Potassium	**0.43**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 20:18	1
Sodium	**8.2**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 20:18	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00048**	**J**	0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:31	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:31	1
Barium	**0.011**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:31	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:31	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:31	1
Chromium	**0.00018**	**J**	0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:31	1
Cobalt	**0.00045**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:31	1
Copper	ND		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:31	1
Lead	ND		0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:31	1
Manganese	**0.66**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:31	1
Nickel	**0.00052**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:31	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:31	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:31	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:31	1
Vanadium	**0.0014**	**J**	0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:31	1
Zinc	ND		0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:31	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:32	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-20
Date Collected: 03/22/23 13:21
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-32
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 23:55	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 23:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 23:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 23:55	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 23:55	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 23:55	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 23:55	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 23:55	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 23:55	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 23:55	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Chloroform	**140**		1.0	0.30	ug/L			04/05/23 23:55	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 23:55	1
cis-1,2-Dichloroethene	**0.54**	**J**	1.0	0.30	ug/L			04/05/23 23:55	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 23:55	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 23:55	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 23:55	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 23:55	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 23:55	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 23:55	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 23:55	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 23:55	1

Client Sample ID: MW-20

Date Collected: 03/22/23 13:21
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-32

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 23:55	1
Tetrachloroethene	**9.3**		1.0	0.30	ug/L			04/05/23 23:55	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 23:55	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 23:55	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Trichloroethene	**170**		1.0	0.30	ug/L			04/05/23 23:55	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 23:55	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/05/23 23:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/05/23 23:55*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/05/23 23:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/05/23 23:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**840**	**H**	10	3.0	ug/L			04/08/23 03:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/08/23 03:32*	*10*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/08/23 03:32*	*10*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*04/08/23 03:32*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/08/23 03:32*	*10*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.26**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 20:21	1
Calcium	**35**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 20:21	1
Iron	**0.39**	**J**	0.50	0.061	mg/L		04/04/23 18:24	04/05/23 20:21	1
Magnesium	**16**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 20:21	1
Potassium	**0.95**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 20:21	1
Sodium	**23**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 20:21	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0018**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 15:34	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 15:34	1
Barium	**0.035**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 15:34	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 15:34	1
Cadmium	**0.000045**	**J**	0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 15:34	1
Chromium	**0.0010**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 15:34	1
Cobalt	**0.0017**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 15:34	1
Copper	**0.0013**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 15:34	1
Lead	**0.00013**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 15:34	1
Manganese	**2.8**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 15:34	1
Nickel	**0.0050**		0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 15:34	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 15:34	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 15:34	1

Client Sample ID: MW-20
Lab Sample ID: 180-154079-32
Date Collected: 03/22/23 13:21
Matrix: Water
Date Received: 03/24/23 10:30

Method: EPA 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 15:34	1
Vanadium	**0.015**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 15:34	1
Zinc	**0.0029**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 15:34	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:39	1

Client Sample ID: MW-22
Lab Sample ID: 180-154079-33
Date Collected: 03/21/23 16:00
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/11/23 17:30	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/11/23 17:30	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/11/23 17:30	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/11/23 17:30	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
Benzene	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
Bromoform	ND	H	4.0	1.0	ug/L			04/11/23 17:30	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
Carbon tetrachloride	**7.0**	**H**	1.0	0.30	ug/L			04/11/23 17:30	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/11/23 17:30	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Chloroform	**1.9**	**H**	1.0	0.30	ug/L			04/11/23 17:30	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/11/23 17:30	1
cis-1,2-Dichloroethene	**2.0**	**H**	1.0	0.30	ug/L			04/11/23 17:30	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1

Client Sample ID: MW-22

Date Collected: 03/21/23 16:00
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-33

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/11/23 17:30	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/11/23 17:30	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/11/23 17:30	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/11/23 17:30	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/11/23 17:30	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/11/23 17:30	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/11/23 17:30	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
Styrene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:30	1
Tetrachloroethene	**0.59**	**J H**	1.0	0.30	ug/L			04/11/23 17:30	1
Toluene	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/11/23 17:30	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Trichloroethene	**4.9**	**H**	1.0	0.30	ug/L			04/11/23 17:30	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/11/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/11/23 17:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/11/23 17:30*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*04/11/23 17:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/11/23 17:30*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2.4**		0.50	0.10	mg/L		04/04/23 18:24	04/05/23 20:25	1
Calcium	**26**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 20:25	1
Iron	**6.4**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 20:25	1
Magnesium	**11**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 20:25	1
Potassium	**1.1**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 20:25	1
Sodium	**25**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 20:25	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0049**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:04	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:04	1
Barium	**0.034**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:04	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:04	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:04	1
Chromium	**0.0029**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:04	1
Cobalt	**0.012**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:04	1
Copper	**0.0033**		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:04	1

Client Sample ID: MW-22

Date Collected: 03/21/23 16:00
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-33
Matrix: Water

Method: EPA 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00077**		0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:04	1
Manganese	**0.32**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:04	1
Nickel	**0.0023**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:04	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:04	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:04	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:04	1
Vanadium	**0.019**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:04	1
Zinc	**0.0048**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:04	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:41	1

Client Sample ID: MW-23

Date Collected: 03/22/23 12:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-34
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/06/23 00:17	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/06/23 00:17	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/06/23 00:17	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/06/23 00:17	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
Benzene	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
Bromoform	ND	H	4.0	1.0	ug/L			04/06/23 00:17	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
Carbon tetrachloride	**1.1**	**H**	1.0	0.30	ug/L			04/06/23 00:17	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/06/23 00:17	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1

Client Sample ID: MW-23

Date Collected: 03/22/23 12:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-34

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Chloroform	**3.1**	**H**	1.0	0.30	ug/L			04/06/23 00:17	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/06/23 00:17	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/06/23 00:17	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/06/23 00:17	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/06/23 00:17	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/06/23 00:17	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/06/23 00:17	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/06/23 00:17	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
Styrene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:17	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/06/23 00:17	1
Toluene	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/06/23 00:17	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Trichloroethene	**0.81**	**J H**	1.0	0.30	ug/L			04/06/23 00:17	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/06/23 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/06/23 00:17*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/06/23 00:17*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/06/23 00:17*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/06/23 00:17*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.34**	**J**	0.50	0.10	mg/L		04/04/23 18:24	04/05/23 19:21	1
Calcium	**24**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 19:21	1
Iron	**0.82**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 19:21	1
Magnesium	**13**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 19:21	1
Potassium	**1.0**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 19:21	1
Sodium	**14**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 19:21	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0013**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:39	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:39	1
Barium	**0.0058**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:39	1

Client Sample ID: MW-23

Date Collected: 03/22/23 12:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-34
Matrix: Water

Method: EPA 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:39	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:39	1
Chromium	**0.0014**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:39	1
Cobalt	**0.0010**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:39	1
Copper	**0.00073**	**J**	0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:39	1
Lead	**0.00022**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:39	1
Manganese	**0.019**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:39	1
Nickel	**0.00086**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:39	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:39	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:39	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:39	1
Vanadium	**0.012**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:39	1
Zinc	**0.0030**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:39	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:43	1

Client Sample ID: MW-24

Date Collected: 03/22/23 15:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-35
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/06/23 00:40	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/06/23 00:40	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/06/23 00:40	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/06/23 00:40	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
Benzene	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
Bromoform	ND	H	4.0	1.0	ug/L			04/06/23 00:40	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-24

Date Collected: 03/22/23 15:10
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-35

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
Carbon tetrachloride	**160**	**H**	1.0	0.30	ug/L			04/06/23 00:40	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/06/23 00:40	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Chloroform	**19**	**H**	1.0	0.30	ug/L			04/06/23 00:40	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/06/23 00:40	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/06/23 00:40	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/06/23 00:40	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/06/23 00:40	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/06/23 00:40	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/06/23 00:40	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/06/23 00:40	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/06/23 00:40	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
Styrene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/06/23 00:40	1
Tetrachloroethene	**0.47**	**J H**	1.0	0.30	ug/L			04/06/23 00:40	1
Toluene	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/06/23 00:40	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Trichloroethene	**63**	**H**	1.0	0.30	ug/L			04/06/23 00:40	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/06/23 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/06/23 00:40*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/06/23 00:40*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/06/23 00:40*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/06/23 00:40*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.79**		0.50	0.10	mg/L		04/04/23 18:24	04/05/23 18:52	1
Calcium	**25**		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 18:52	1
Iron	**2.2**		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 18:52	1
Magnesium	**15**		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 18:52	1
Potassium	**1.2**	**J**	3.3	0.17	mg/L		04/04/23 18:24	04/05/23 18:52	1
Sodium	**18**		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 18:52	1

Client Sample ID: MW-24
Lab Sample ID: 180-154079-35
Date Collected: 03/22/23 15:10
Matrix: Water
Date Received: 03/24/23 10:30

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0016**		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:07	1
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:07	1
Barium	**0.0098**		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:07	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:07	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:07	1
Chromium	**0.0018**		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:07	1
Cobalt	**0.0013**		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:07	1
Copper	**0.0035**		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:07	1
Lead	**0.00035**	**J**	0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:07	1
Manganese	**0.12**		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:07	1
Nickel	**0.0011**	**J**	0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:07	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:07	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:07	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:07	1
Vanadium	**0.016**		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:07	1
Zinc	**0.0030**	**J**	0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:07	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 16:45	1

Client Sample ID: MW-25
Lab Sample ID: 180-154079-36
Date Collected: 03/21/23 12:56
Matrix: Water
Date Received: 03/24/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,1,1-Trichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,1,2-Trichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,1-Dichloroethene	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,1-Dichloropropene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.40	ug/L			04/11/23 17:52	1
1,2,3-Trichloropropane	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
1,2,4-Trichlorobenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.0	ug/L			04/11/23 17:52	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
1,2-Dichlorobenzene	ND	H	5.0	0.20	ug/L			04/11/23 17:52	1
1,2-Dichloroethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,3,5-Trimethylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
1,3-Dichlorobenzene	ND	H	5.0	0.68	ug/L			04/11/23 17:52	1
1,3-Dichloropropane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
1,4-Dichlorobenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
2,2-Dichloropropane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
2-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
4-Chlorotoluene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
4-Isopropyltoluene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-25
Date Collected: 03/21/23 12:56
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-36
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Bromobenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
Bromoform	ND	H	4.0	1.0	ug/L			04/11/23 17:52	1
Bromomethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Chlorobenzene	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Bromochloromethane	ND	H	5.0	0.20	ug/L			04/11/23 17:52	1
Chlorodibromomethane	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Chloroethane	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Chloroform	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Chloromethane	ND	H	2.0	0.55	ug/L			04/11/23 17:52	1
cis-1,2-Dichloroethene	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Dibromomethane	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Dichlorobromomethane	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Dichlorodifluoromethane	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Ethylbenzene	ND	H	1.0	0.40	ug/L			04/11/23 17:52	1
Ethylene Dibromide	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Hexachlorobutadiene	ND	H	5.0	2.0	ug/L			04/11/23 17:52	1
Isopropylbenzene	ND	H	5.0	0.20	ug/L			04/11/23 17:52	1
Methyl tert-butyl ether	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Methylene Chloride	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
m-Xylene & p-Xylene	ND	H	5.0	2.0	ug/L			04/11/23 17:52	1
Naphthalene	ND	H	5.0	1.0	ug/L			04/11/23 17:52	1
n-Butylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
N-Propylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
o-Xylene	ND	H	1.0	0.40	ug/L			04/11/23 17:52	1
sec-Butylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
Styrene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
tert-Butylbenzene	ND	H	5.0	0.30	ug/L			04/11/23 17:52	1
Tetrachloroethene	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Toluene	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
trans-1,2-Dichloroethene	ND	H	2.0	0.70	ug/L			04/11/23 17:52	1
trans-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Trichloroethene	ND	H	1.0	0.30	ug/L			04/11/23 17:52	1
Trichlorofluoromethane	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1
Vinyl chloride	ND	H	1.0	0.20	ug/L			04/11/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/11/23 17:52*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/11/23 17:52*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*04/11/23 17:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/11/23 17:52*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-26
Date Collected: 03/20/23 14:05
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-37
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	5.0	2.9	ug/L			04/07/23 12:08	1
Chloromethane	ND	H	5.0	3.9	ug/L			04/07/23 12:08	1
Vinyl chloride	ND	H	5.0	3.7	ug/L			04/07/23 12:08	1
Bromomethane	ND	H	5.0	4.5	ug/L			04/07/23 12:08	1
Chloroethane	ND	H	5.0	2.6	ug/L			04/07/23 12:08	1
Trichlorofluoromethane	ND	H	5.0	1.5	ug/L			04/07/23 12:08	1
1,1-Dichloroethene	ND	H	5.0	2.9	ug/L			04/07/23 12:08	1
Methylene Chloride	ND	H	5.0	3.9	ug/L			04/07/23 12:08	1
Methyl tert-butyl ether	ND	H	5.0	3.7	ug/L			04/07/23 12:08	1
trans-1,2-Dichloroethene	ND	H	5.0	2.5	ug/L			04/07/23 12:08	1
1,1-Dichloroethane	ND	H	5.0	1.8	ug/L			04/07/23 12:08	1
2,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 12:08	1
cis-1,2-Dichloroethene	ND	H	5.0	1.6	ug/L			04/07/23 12:08	1
Bromochloromethane	ND	H	5.0	1.9	ug/L			04/07/23 12:08	1
Chloroform	ND	H	5.0	2.1	ug/L			04/07/23 12:08	1
1,1,1-Trichloroethane	ND	H	5.0	2.5	ug/L			04/07/23 12:08	1
Carbon tetrachloride	ND	H	5.0	3.3	ug/L			04/07/23 12:08	1
1,1-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 12:08	1
Benzene	ND	H	5.0	2.0	ug/L			04/07/23 12:08	1
1,2-Dichloroethane	ND	H	5.0	1.5	ug/L			04/07/23 12:08	1
Trichloroethene	ND	H	5.0	1.5	ug/L			04/07/23 12:08	1
1,2-Dichloropropane	ND	H	5.0	2.5	ug/L			04/07/23 12:08	1
Dibromomethane	ND	H	5.0	2.2	ug/L			04/07/23 12:08	1
Dichlorobromomethane	ND	H	5.0	2.4	ug/L			04/07/23 12:08	1
cis-1,3-Dichloropropene	ND	H	5.0	1.6	ug/L			04/07/23 12:08	1
Toluene	ND	H	5.0	1.7	ug/L			04/07/23 12:08	1
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			04/07/23 12:08	1
1,1,2-Trichloroethane	ND	H	5.0	2.4	ug/L			04/07/23 12:08	1
Tetrachloroethene	ND	H	5.0	2.0	ug/L			04/07/23 12:08	1
1,3-Dichloropropane	ND	H	5.0	2.6	ug/L			04/07/23 12:08	1
Chlorodibromomethane	ND	H	5.0	2.4	ug/L			04/07/23 12:08	1
Ethylene Dibromide	ND	H	5.0	2.7	ug/L			04/07/23 12:08	1
Chlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 12:08	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	3.9	ug/L			04/07/23 12:08	1
Ethylbenzene	ND	H	5.0	2.2	ug/L			04/07/23 12:08	1
m-Xylene & p-Xylene	ND	H	5.0	1.9	ug/L			04/07/23 12:08	1
o-Xylene	ND	H	5.0	2.4	ug/L			04/07/23 12:08	1
Styrene	ND	H	5.0	1.3	ug/L			04/07/23 12:08	1
Bromoform	ND	H	5.0	2.6	ug/L			04/07/23 12:08	1
Isopropylbenzene	ND	H	5.0	2.3	ug/L			04/07/23 12:08	1
Bromobenzene	ND	H	5.0	1.6	ug/L			04/07/23 12:08	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	3.0	ug/L			04/07/23 12:08	1
1,2,3-Trichloropropane	ND	H	5.0	2.8	ug/L			04/07/23 12:08	1
N-Propylbenzene	ND	H	5.0	2.1	ug/L			04/07/23 12:08	1
2-Chlorotoluene	ND	H	5.0	1.9	ug/L			04/07/23 12:08	1
4-Chlorotoluene	ND	H	5.0	1.8	ug/L			04/07/23 12:08	1
tert-Butylbenzene	ND	H	5.0	1.8	ug/L			04/07/23 12:08	1
1,2,4-Trimethylbenzene	ND	H	5.0	1.3	ug/L			04/07/23 12:08	1
sec-Butylbenzene	ND	H	5.0	2.4	ug/L			04/07/23 12:08	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-154079-1

Client Sample ID: MW-26
Date Collected: 03/20/23 14:05
Date Received: 03/24/23 10:30

Lab Sample ID: 180-154079-37
Matrix: Water

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND	H	5.0	2.2	ug/L			04/07/23 12:08	1
1,3-Dichlorobenzene	ND	H	5.0	1.6	ug/L			04/07/23 12:08	1
1,4-Dichlorobenzene	ND	H	5.0	1.0	ug/L			04/07/23 12:08	1
n-Butylbenzene	ND	H	5.0	3.8	ug/L			04/07/23 12:08	1
1,2-Dichlorobenzene	ND	H	5.0	2.0	ug/L			04/07/23 12:08	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	3.1	ug/L			04/07/23 12:08	1
1,2,4-Trichlorobenzene	ND	H	5.0	3.7	ug/L			04/07/23 12:08	1
Hexachlorobutadiene	ND	H	5.0	1.8	ug/L			04/07/23 12:08	1
Naphthalene	ND	H	5.0	3.9	ug/L			04/07/23 12:08	1
1,2,3-Trichlorobenzene	ND	H F2	5.0	3.5	ug/L			04/07/23 12:08	1
1,3,5-Trimethylbenzene	ND	H	5.0	1.7	ug/L			04/07/23 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*53 - 124*		*04/07/23 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 151*		*04/07/23 12:08*	*1*
4-Bromofluorobenzene (Surr)	*101*		*49 - 118*		*04/07/23 12:08*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 132*		*04/07/23 12:08*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-360825/5
Matrix: Water
Analysis Batch: 360825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
1,2,3-Trichlorobenzene	0.474	J	5.0	0.40	ug/L			04/04/23 21:03	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/04/23 21:03	1
1,2,4-Trichlorobenzene	0.311	J	5.0	0.30	ug/L			04/04/23 21:03	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/04/23 21:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/04/23 21:03	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/04/23 21:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/04/23 21:03	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
Benzene	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Bromobenzene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
Bromoform	ND		4.0	1.0	ug/L			04/04/23 21:03	1
Bromomethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/04/23 21:03	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Chloroethane	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Chloroform	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Chloromethane	ND		2.0	0.55	ug/L			04/04/23 21:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/04/23 21:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Dibromomethane	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/04/23 21:03	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/04/23 21:03	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/04/23 21:03	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/04/23 21:03	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/04/23 21:03	1
Naphthalene	ND		5.0	1.0	ug/L			04/04/23 21:03	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/04/23 21:03	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-360825/5
Matrix: Water
Analysis Batch: 360825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
o-Xylene	ND		1.0	0.40	ug/L			04/04/23 21:03	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
Styrene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/04/23 21:03	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Toluene	ND		1.0	0.20	ug/L			04/04/23 21:03	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/04/23 21:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Trichloroethene	ND		1.0	0.30	ug/L			04/04/23 21:03	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/04/23 21:03	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/04/23 21:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/04/23 21:03*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/04/23 21:03*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/04/23 21:03*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/04/23 21:03*	*1*

Lab Sample ID: LCS 410-360825/4
Matrix: Water
Analysis Batch: 360825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/L		94	78 - 120
1,1,1-Trichloroethane	20.0	19.3		ug/L		97	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	72 - 120
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	80 - 120
1,1-Dichloroethane	20.0	21.2		ug/L		106	80 - 120
1,1-Dichloroethene	20.0	24.0		ug/L		120	80 - 131
1,1-Dichloropropene	20.0	22.2		ug/L		111	78 - 120
1,2,3-Trichlorobenzene	20.0	20.5		ug/L		103	66 - 120
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	75 - 124
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	63 - 120
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	15.3		ug/L		77	47 - 131
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120
1,2-Dichloroethane	20.0	18.2		ug/L		91	73 - 124
1,2-Dichloropropane	20.0	22.6		ug/L		113	80 - 120
1,3,5-Trimethylbenzene	20.0	20.0		ug/L		100	75 - 120
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
1,3-Dichloropropane	20.0	20.7		ug/L		103	80 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120
2,2-Dichloropropane	20.0	19.8		ug/L		99	55 - 142
2-Chlorotoluene	20.0	20.2		ug/L		101	80 - 120
4-Chlorotoluene	20.0	20.3		ug/L		101	80 - 120
4-Isopropyltoluene	20.0	20.4		ug/L		102	76 - 120
Benzene	20.0	23.3		ug/L		117	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-360825/4
Matrix: Water
Analysis Batch: 360825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	20.0	20.2		ug/L		101	80 - 120
Bromoform	20.0	17.0		ug/L		85	51 - 120
Bromomethane	20.0	18.0		ug/L		90	53 - 128
Carbon tetrachloride	20.0	19.0		ug/L		95	64 - 134
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120
Bromochloromethane	20.0	21.6		ug/L		108	80 - 120
Chlorodibromomethane	20.0	17.9		ug/L		89	71 - 120
Chloroethane	20.0	18.5		ug/L		92	55 - 123
Chloroform	20.0	20.3		ug/L		101	80 - 120
Chloromethane	20.0	17.7		ug/L		88	56 - 121
cis-1,2-Dichloroethene	20.0	22.2		ug/L		111	80 - 125
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	75 - 120
Dibromomethane	20.0	21.3		ug/L		106	80 - 120
Dichlorobromomethane	20.0	19.2		ug/L		96	71 - 120
Dichlorodifluoromethane	20.0	13.6		ug/L		68	41 - 127
Ethylbenzene	20.0	20.4		ug/L		102	80 - 120
Ethylene Dibromide	20.0	20.1		ug/L		100	77 - 120
Hexachlorobutadiene	20.0	20.2		ug/L		101	63 - 120
Isopropylbenzene	20.0	20.5		ug/L		102	80 - 120
Methyl tert-butyl ether	20.0	19.4		ug/L		97	69 - 122
Methylene Chloride	20.0	22.4		ug/L		112	80 - 120
m-Xylene & p-Xylene	40.0	41.7		ug/L		104	80 - 120
Naphthalene	20.0	19.4		ug/L		97	53 - 124
n-Butylbenzene	20.0	20.9		ug/L		105	76 - 120
N-Propylbenzene	20.0	20.8		ug/L		104	79 - 121
o-Xylene	20.0	20.1		ug/L		100	80 - 120
sec-Butylbenzene	20.0	20.9		ug/L		105	77 - 120
Styrene	20.0	20.2		ug/L		101	80 - 120
tert-Butylbenzene	20.0	20.1		ug/L		101	78 - 120
Tetrachloroethene	20.0	20.4		ug/L		102	80 - 120
Toluene	20.0	20.9		ug/L		105	80 - 120
trans-1,2-Dichloroethene	20.0	22.0		ug/L		110	80 - 126
trans-1,3-Dichloropropene	20.0	18.4		ug/L		92	67 - 120
Trichloroethene	20.0	21.0		ug/L		105	80 - 120
Trichlorofluoromethane	20.0	14.9		ug/L		74	55 - 135
Vinyl chloride	20.0	18.8		ug/L		94	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-360836/5
Matrix: Water
Analysis Batch: 360836

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/04/23 20:33	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/04/23 20:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/04/23 20:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/04/23 20:33	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/04/23 20:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/04/23 20:33	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
Benzene	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Bromobenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
Bromoform	ND		4.0	1.0	ug/L			04/04/23 20:33	1
Bromomethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/04/23 20:33	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Chloroethane	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Chloroform	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Chloromethane	ND		2.0	0.55	ug/L			04/04/23 20:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/04/23 20:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Dibromomethane	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/04/23 20:33	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/04/23 20:33	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/04/23 20:33	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/04/23 20:33	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/04/23 20:33	1
Naphthalene	ND		5.0	1.0	ug/L			04/04/23 20:33	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-360836/5
Matrix: Water
Analysis Batch: 360836

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
o-Xylene	ND		1.0	0.40	ug/L			04/04/23 20:33	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
Styrene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/04/23 20:33	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Toluene	ND		1.0	0.20	ug/L			04/04/23 20:33	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/04/23 20:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Trichloroethene	ND		1.0	0.30	ug/L			04/04/23 20:33	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/04/23 20:33	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/04/23 20:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*04/04/23 20:33*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/04/23 20:33*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/04/23 20:33*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/04/23 20:33*	*1*

Lab Sample ID: LCS 410-360836/4
Matrix: Water
Analysis Batch: 360836

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.9		ug/L		110	78 - 120
1,1,1-Trichloroethane	20.0	19.5		ug/L		98	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	72 - 120
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	80 - 120
1,1-Dichloroethane	20.0	18.8		ug/L		94	80 - 120
1,1-Dichloroethene	20.0	22.2		ug/L		111	80 - 131
1,1-Dichloropropene	20.0	20.8		ug/L		104	78 - 120
1,2,3-Trichlorobenzene	20.0	23.0		ug/L		115	66 - 120
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	75 - 124
1,2,4-Trichlorobenzene	20.0	22.4		ug/L		112	63 - 120
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		107	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		96	47 - 131
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 120
1,2-Dichloroethane	20.0	20.3		ug/L		102	73 - 124
1,2-Dichloropropane	20.0	19.7		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	20.0	21.5		ug/L		108	75 - 120
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
1,3-Dichloropropane	20.0	20.2		ug/L		101	80 - 120
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 120
2,2-Dichloropropane	20.0	20.0		ug/L		100	55 - 142
2-Chlorotoluene	20.0	21.8		ug/L		109	80 - 120
4-Chlorotoluene	20.0	20.5		ug/L		102	80 - 120
4-Isopropyltoluene	20.0	22.0		ug/L		110	76 - 120
Benzene	20.0	20.8		ug/L		104	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-360836/4
Matrix: Water
Analysis Batch: 360836

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	20.0	20.6		ug/L		103	80 - 120
Bromoform	20.0	19.0		ug/L		95	51 - 120
Bromomethane	20.0	17.7		ug/L		89	53 - 128
Carbon tetrachloride	20.0	20.1		ug/L		101	64 - 134
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120
Bromochloromethane	20.0	20.6		ug/L		103	80 - 120
Chlorodibromomethane	20.0	20.6		ug/L		103	71 - 120
Chloroethane	20.0	17.6		ug/L		88	55 - 123
Chloroform	20.0	19.5		ug/L		98	80 - 120
Chloromethane	20.0	16.9		ug/L		85	56 - 121
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	80 - 125
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	75 - 120
Dibromomethane	20.0	20.5		ug/L		102	80 - 120
Dichlorobromomethane	20.0	19.7		ug/L		98	71 - 120
Dichlorodifluoromethane	20.0	15.9		ug/L		80	41 - 127
Ethylbenzene	20.0	20.5		ug/L		103	80 - 120
Ethylene Dibromide	20.0	20.2		ug/L		101	77 - 120
Hexachlorobutadiene	20.0	21.8		ug/L		109	63 - 120
Isopropylbenzene	20.0	21.9		ug/L		109	80 - 120
Methyl tert-butyl ether	20.0	20.6		ug/L		103	69 - 122
Methylene Chloride	20.0	20.9		ug/L		104	80 - 120
m-Xylene & p-Xylene	40.0	41.7		ug/L		104	80 - 120
Naphthalene	20.0	21.4		ug/L		107	53 - 124
n-Butylbenzene	20.0	21.3		ug/L		107	76 - 120
N-Propylbenzene	20.0	21.8		ug/L		109	79 - 121
o-Xylene	20.0	20.9		ug/L		105	80 - 120
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 120
Styrene	20.0	19.5		ug/L		98	80 - 120
tert-Butylbenzene	20.0	22.0		ug/L		110	78 - 120
Tetrachloroethene	20.0	21.6		ug/L		108	80 - 120
Toluene	20.0	21.0		ug/L		105	80 - 120
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 126
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	67 - 120
Trichloroethene	20.0	20.2		ug/L		101	80 - 120
Trichlorofluoromethane	20.0	16.1		ug/L		80	55 - 135
Vinyl chloride	20.0	17.7		ug/L		88	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-360918/6
Matrix: Water
Analysis Batch: 360918

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
1,2,3-Trichlorobenzene	0.629	J	5.0	0.40	ug/L			04/05/23 01:56	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 01:56	1
1,2,4-Trichlorobenzene	0.577	J	5.0	0.30	ug/L			04/05/23 01:56	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 01:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 01:56	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 01:56	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 01:56	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 01:56	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 01:56	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 01:56	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 01:56	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 01:56	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 01:56	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 01:56	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 01:56	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 01:56	1
Naphthalene	1.02	J	5.0	1.0	ug/L			04/05/23 01:56	1
n-Butylbenzene	0.346	J	5.0	0.30	ug/L			04/05/23 01:56	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-360918/6
Matrix: Water
Analysis Batch: 360918

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 01:56	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 01:56	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 01:56	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 01:56	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 01:56	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 01:56	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 01:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*04/05/23 01:56*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/05/23 01:56*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*04/05/23 01:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/05/23 01:56*	*1*

Lab Sample ID: LCS 410-360918/4
Matrix: Water
Analysis Batch: 360918

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.0		ug/L		105	78 - 120
1,1,1-Trichloroethane	20.0	20.3		ug/L		101	67 - 126
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	72 - 120
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	80 - 120
1,1-Dichloroethane	20.0	19.5		ug/L		97	80 - 120
1,1-Dichloroethene	20.0	21.3		ug/L		106	80 - 131
1,1-Dichloropropene	20.0	20.4		ug/L		102	78 - 120
1,2,3-Trichlorobenzene	20.0	21.2		ug/L		106	66 - 120
1,2,3-Trichloropropane	20.0	18.4		ug/L		92	75 - 124
1,2,4-Trichlorobenzene	20.0	21.0		ug/L		105	63 - 120
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	15.6		ug/L		78	47 - 131
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
1,2-Dichloroethane	20.0	18.0		ug/L		90	73 - 124
1,2-Dichloropropane	20.0	18.8		ug/L		94	80 - 120
1,3,5-Trimethylbenzene	20.0	18.5		ug/L		93	75 - 120
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
1,3-Dichloropropane	20.0	18.8		ug/L		94	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		100	80 - 120
2,2-Dichloropropane	20.0	22.5		ug/L		113	55 - 142
2-Chlorotoluene	20.0	19.9		ug/L		99	80 - 120
4-Chlorotoluene	20.0	19.8		ug/L		99	80 - 120
4-Isopropyltoluene	20.0	19.7		ug/L		99	76 - 120
Benzene	20.0	19.7		ug/L		99	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-360918/4
Matrix: Water
Analysis Batch: 360918

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	20.0	21.2		ug/L		106	80 - 120
Bromoform	20.0	21.1		ug/L		106	51 - 120
Bromomethane	20.0	19.0		ug/L		95	53 - 128
Carbon tetrachloride	20.0	23.6		ug/L		118	64 - 134
Chlorobenzene	20.0	20.5		ug/L		103	80 - 120
Bromochloromethane	20.0	23.4		ug/L		117	80 - 120
Chlorodibromomethane	20.0	20.6		ug/L		103	71 - 120
Chloroethane	20.0	18.2		ug/L		91	55 - 123
Chloroform	20.0	19.5		ug/L		98	80 - 120
Chloromethane	20.0	15.1		ug/L		75	56 - 121
cis-1,2-Dichloroethene	20.0	21.7		ug/L		109	80 - 125
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	75 - 120
Dibromomethane	20.0	20.2		ug/L		101	80 - 120
Dichlorobromomethane	20.0	19.8		ug/L		99	71 - 120
Dichlorodifluoromethane	20.0	18.4		ug/L		92	41 - 127
Ethylbenzene	20.0	19.4		ug/L		97	80 - 120
Ethylene Dibromide	20.0	20.0		ug/L		100	77 - 120
Hexachlorobutadiene	20.0	20.7		ug/L		104	63 - 120
Isopropylbenzene	20.0	20.3		ug/L		102	80 - 120
Methyl tert-butyl ether	20.0	19.0		ug/L		95	69 - 122
Methylene Chloride	20.0	20.7		ug/L		103	80 - 120
m-Xylene & p-Xylene	40.0	40.3		ug/L		101	80 - 120
Naphthalene	20.0	20.4		ug/L		102	53 - 124
n-Butylbenzene	20.0	18.2		ug/L		91	76 - 120
N-Propylbenzene	20.0	18.7		ug/L		94	79 - 121
o-Xylene	20.0	20.2		ug/L		101	80 - 120
sec-Butylbenzene	20.0	19.2		ug/L		96	77 - 120
Styrene	20.0	19.7		ug/L		98	80 - 120
tert-Butylbenzene	20.0	20.3		ug/L		101	78 - 120
Tetrachloroethene	20.0	22.3		ug/L		112	80 - 120
Toluene	20.0	19.5		ug/L		98	80 - 120
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	80 - 126
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	67 - 120
Trichloroethene	20.0	18.8		ug/L		94	80 - 120
Trichlorofluoromethane	20.0	18.9		ug/L		95	55 - 135
Vinyl chloride	20.0	18.4		ug/L		92	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-360918/5
Matrix: Water
Analysis Batch: 360918

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			20.0	20.7		ug/L		104	78 - 120	1	30
1,1,1-Trichloroethane			20.0	19.9		ug/L		99	67 - 126	2	30
1,1,2,2-Tetrachloroethane			20.0	19.3		ug/L		96	72 - 120	3	30
1,1,2-Trichloroethane			20.0	18.5		ug/L		93	80 - 120	1	30
1,1-Dichloroethane			20.0	18.9		ug/L		94	80 - 120	3	30
1,1-Dichloroethene			20.0	20.6		ug/L		103	80 - 131	3	30
1,1-Dichloropropene			20.0	19.3		ug/L		97	78 - 120	5	30
1,2,3-Trichlorobenzene			20.0	20.2		ug/L		101	66 - 120	5	30
1,2,3-Trichloropropane			20.0	18.0		ug/L		90	75 - 124	3	30
1,2,4-Trichlorobenzene			20.0	19.7		ug/L		98	63 - 120	7	30
1,2,4-Trimethylbenzene			20.0	17.7		ug/L		88	75 - 120	5	30
1,2-Dibromo-3-Chloropropane			20.0	15.5		ug/L		78	47 - 131	0	30
1,2-Dichlorobenzene			20.0	19.1		ug/L		96	80 - 120	4	30
1,2-Dichloroethane			20.0	17.8		ug/L		89	73 - 124	1	30
1,2-Dichloropropane			20.0	18.3		ug/L		91	80 - 120	3	30
1,3,5-Trimethylbenzene			20.0	17.5		ug/L		88	75 - 120	6	30
1,3-Dichlorobenzene			20.0	18.9		ug/L		94	80 - 120	5	30
1,3-Dichloropropane			20.0	18.1		ug/L		91	80 - 120	4	30
1,4-Dichlorobenzene			20.0	19.0		ug/L		95	80 - 120	5	30
2,2-Dichloropropane			20.0	22.7		ug/L		113	55 - 142	1	30
2-Chlorotoluene			20.0	18.8		ug/L		94	80 - 120	5	30
4-Chlorotoluene			20.0	18.5		ug/L		92	80 - 120	7	30
4-Isopropyltoluene			20.0	18.5		ug/L		93	76 - 120	6	30
Benzene			20.0	19.1		ug/L		95	80 - 120	3	30
Bromobenzene			20.0	20.1		ug/L		100	80 - 120	5	30
Bromoform			20.0	20.5		ug/L		103	51 - 120	3	30
Bromomethane			20.0	19.0		ug/L		95	53 - 128	0	30
Carbon tetrachloride			20.0	22.8		ug/L		114	64 - 134	3	30
Chlorobenzene			20.0	19.7		ug/L		98	80 - 120	4	30
Bromochloromethane			20.0	23.1		ug/L		116	80 - 120	1	30
Chlorodibromomethane			20.0	20.6		ug/L		103	71 - 120	0	30
Chloroethane			20.0	16.6		ug/L		83	55 - 123	9	30
Chloroform			20.0	19.0		ug/L		95	80 - 120	3	30
Chloromethane			20.0	14.5		ug/L		73	56 - 121	4	30
cis-1,2-Dichloroethene			20.0	21.2		ug/L		106	80 - 125	2	30
cis-1,3-Dichloropropene			20.0	18.7		ug/L		93	75 - 120	1	30
Dibromomethane			20.0	19.9		ug/L		99	80 - 120	1	30
Dichlorobromomethane			20.0	19.0		ug/L		95	71 - 120	4	30
Dichlorodifluoromethane			20.0	17.1		ug/L		86	41 - 127	7	30
Ethylbenzene			20.0	18.7		ug/L		94	80 - 120	3	30
Ethylene Dibromide			20.0	18.9		ug/L		94	77 - 120	6	30
Hexachlorobutadiene			20.0	19.3		ug/L		97	63 - 120	7	30
Isopropylbenzene			20.0	19.6		ug/L		98	80 - 120	3	30
Methyl tert-butyl ether			20.0	19.5		ug/L		97	69 - 122	2	30
Methylene Chloride			20.0	20.0		ug/L		100	80 - 120	3	30
m-Xylene & p-Xylene			40.0	38.8		ug/L		97	80 - 120	4	30
Naphthalene			20.0	20.0		ug/L		100	53 - 124	2	30
n-Butylbenzene			20.0	16.8		ug/L		84	76 - 120	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-360918/5
Matrix: Water
Analysis Batch: 360918

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Propylbenzene			20.0	17.8		ug/L		89	79 - 121	5	30
o-Xylene			20.0	19.5		ug/L		97	80 - 120	4	30
sec-Butylbenzene			20.0	17.9		ug/L		89	77 - 120	7	30
Styrene			20.0	19.1		ug/L		95	80 - 120	3	30
tert-Butylbenzene			20.0	18.8		ug/L		94	78 - 120	8	30
Tetrachloroethene			20.0	21.4		ug/L		107	80 - 120	4	30
Toluene			20.0	18.8		ug/L		94	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	20.6		ug/L		103	80 - 126	4	30
trans-1,3-Dichloropropene			20.0	18.3		ug/L		91	67 - 120	4	30
Trichloroethene			20.0	18.1		ug/L		90	80 - 120	4	30
Trichlorofluoromethane			20.0	18.3		ug/L		92	55 - 135	3	30
Vinyl chloride			20.0	18.5		ug/L		92	56 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 410-361347/7
Matrix: Water
Analysis Batch: 361347

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 21:40	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 21:40	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 21:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 21:40	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 21:40	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 21:40	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 21:40	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-361347/7
Matrix: Water
Analysis Batch: 361347

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 21:40	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 21:40	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 21:40	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 21:40	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 21:40	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 21:40	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 21:40	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 21:40	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 21:40	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 21:40	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 21:40	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 21:40	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 21:40	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 21:40	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 21:40	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 21:40	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 21:40	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 21:40	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 21:40	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 21:40	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 21:40	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 21:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/05/23 21:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/05/23 21:40*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*04/05/23 21:40*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/05/23 21:40*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-361347/4
Matrix: Water
Analysis Batch: 361347

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.9		ug/L		100	78 - 120
1,1,1-Trichloroethane	20.0	18.2		ug/L		91	67 - 126
1,1,2,2-Tetrachloroethane	20.0	23.0		ug/L		115	72 - 120
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	80 - 120
1,1-Dichloroethane	20.0	20.0		ug/L		100	80 - 120
1,1-Dichloroethene	20.0	18.5		ug/L		93	80 - 131
1,1-Dichloropropene	20.0	19.6		ug/L		98	78 - 120
1,2,3-Trichlorobenzene	20.0	21.8		ug/L		109	66 - 120
1,2,3-Trichloropropane	20.0	22.8		ug/L		114	75 - 124
1,2,4-Trichlorobenzene	20.0	21.4		ug/L		107	63 - 120
1,2,4-Trimethylbenzene	20.0	20.7		ug/L		104	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	21.6		ug/L		108	47 - 131
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120
1,2-Dichloroethane	20.0	19.5		ug/L		97	73 - 124
1,2-Dichloropropane	20.0	20.9		ug/L		105	80 - 120
1,3,5-Trimethylbenzene	20.0	20.3		ug/L		102	75 - 120
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
1,3-Dichloropropane	20.0	21.3		ug/L		107	80 - 120
1,4-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 120
2,2-Dichloropropane	20.0	18.9		ug/L		95	55 - 142
2-Chlorotoluene	20.0	20.7		ug/L		104	80 - 120
4-Chlorotoluene	20.0	20.3		ug/L		101	80 - 120
4-Isopropyltoluene	20.0	20.9		ug/L		105	76 - 120
Benzene	20.0	20.6		ug/L		103	80 - 120
Bromobenzene	20.0	21.0		ug/L		105	80 - 120
Bromoform	20.0	16.7		ug/L		84	51 - 120
Bromomethane	20.0	20.3		ug/L		102	53 - 128
Carbon tetrachloride	20.0	17.7		ug/L		88	64 - 134
Chlorobenzene	20.0	20.2		ug/L		101	80 - 120
Bromochloromethane	20.0	18.2		ug/L		91	80 - 120
Chlorodibromomethane	20.0	18.5		ug/L		92	71 - 120
Chloroethane	20.0	21.8		ug/L		109	55 - 123
Chloroform	20.0	18.5		ug/L		92	80 - 120
Chloromethane	20.0	22.6		ug/L		113	56 - 121
cis-1,2-Dichloroethene	20.0	18.3		ug/L		91	80 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	75 - 120
Dibromomethane	20.0	20.4		ug/L		102	80 - 120
Dichlorobromomethane	20.0	19.2		ug/L		96	71 - 120
Dichlorodifluoromethane	20.0	14.9		ug/L		75	41 - 127
Ethylbenzene	20.0	20.3		ug/L		101	80 - 120
Ethylene Dibromide	20.0	20.7		ug/L		104	77 - 120
Hexachlorobutadiene	20.0	20.3		ug/L		102	63 - 120
Isopropylbenzene	20.0	20.7		ug/L		104	80 - 120
Methyl tert-butyl ether	20.0	21.7		ug/L		109	69 - 122
Methylene Chloride	20.0	19.8		ug/L		99	80 - 120
m-Xylene & p-Xylene	40.0	40.3		ug/L		101	80 - 120
Naphthalene	20.0	22.8		ug/L		114	53 - 124
n-Butylbenzene	20.0	20.4		ug/L		102	76 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-361347/4
Matrix: Water
Analysis Batch: 361347

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	20.0	21.6		ug/L		108	79 - 121
o-Xylene	20.0	20.4		ug/L		102	80 - 120
sec-Butylbenzene	20.0	20.9		ug/L		104	77 - 120
Styrene	20.0	20.8		ug/L		104	80 - 120
tert-Butylbenzene	20.0	19.2		ug/L		96	78 - 120
Tetrachloroethene	20.0	17.6		ug/L		88	80 - 120
Toluene	20.0	19.8		ug/L		99	80 - 120
trans-1,2-Dichloroethene	20.0	18.7		ug/L		93	80 - 126
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	67 - 120
Trichloroethene	20.0	18.8		ug/L		94	80 - 120
Trichlorofluoromethane	20.0	15.6		ug/L		78	55 - 135
Vinyl chloride	20.0	20.1		ug/L		101	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 410-361348/6
Matrix: Water
Analysis Batch: 361348

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/05/23 22:25	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/05/23 22:25	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/05/23 22:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/05/23 22:25	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/05/23 22:25	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/05/23 22:25	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
Benzene	ND		1.0	0.30	ug/L			04/05/23 22:25	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-361348/6
Matrix: Water
Analysis Batch: 361348

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
Bromoform	ND		4.0	1.0	ug/L			04/05/23 22:25	1
Bromomethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/05/23 22:25	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/05/23 22:25	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/05/23 22:25	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Chloroethane	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Chloroform	ND		1.0	0.30	ug/L			04/05/23 22:25	1
Chloromethane	ND		2.0	0.55	ug/L			04/05/23 22:25	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:25	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Dibromomethane	ND		1.0	0.30	ug/L			04/05/23 22:25	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/05/23 22:25	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/05/23 22:25	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/05/23 22:25	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/05/23 22:25	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/05/23 22:25	1
Naphthalene	ND		5.0	1.0	ug/L			04/05/23 22:25	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
o-Xylene	ND		1.0	0.40	ug/L			04/05/23 22:25	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
Styrene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/05/23 22:25	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/05/23 22:25	1
Toluene	ND		1.0	0.20	ug/L			04/05/23 22:25	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/05/23 22:25	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Trichloroethene	ND		1.0	0.30	ug/L			04/05/23 22:25	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/05/23 22:25	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/05/23 22:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/05/23 22:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/05/23 22:25*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/05/23 22:25*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/05/23 22:25*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-361348/4
Matrix: Water
Analysis Batch: 361348

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		100	78 - 120
1,1,1-Trichloroethane	20.0	17.0		ug/L		85	67 - 126
1,1,2,2-Tetrachloroethane	20.0	21.5		ug/L		108	72 - 120
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	80 - 120
1,1-Dichloroethane	20.0	19.1		ug/L		95	80 - 120
1,1-Dichloroethene	20.0	17.5		ug/L		88	80 - 131
1,1-Dichloropropene	20.0	19.0		ug/L		95	78 - 120
1,2,3-Trichlorobenzene	20.0	20.5		ug/L		103	66 - 120
1,2,3-Trichloropropane	20.0	20.2		ug/L		101	75 - 124
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		101	63 - 120
1,2,4-Trimethylbenzene	20.0	19.4		ug/L		97	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		91	47 - 131
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,2-Dichloroethane	20.0	17.1		ug/L		85	73 - 124
1,2-Dichloropropane	20.0	19.4		ug/L		97	80 - 120
1,3,5-Trimethylbenzene	20.0	19.8		ug/L		99	75 - 120
1,3-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 120
1,3-Dichloropropane	20.0	19.6		ug/L		98	80 - 120
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 120
2,2-Dichloropropane	20.0	16.8		ug/L		84	55 - 142
2-Chlorotoluene	20.0	19.3		ug/L		97	80 - 120
4-Chlorotoluene	20.0	19.5		ug/L		97	80 - 120
4-Isopropyltoluene	20.0	19.7		ug/L		98	76 - 120
Benzene	20.0	20.2		ug/L		101	80 - 120
Bromobenzene	20.0	19.5		ug/L		97	80 - 120
Bromoform	20.0	17.6		ug/L		88	51 - 120
Bromomethane	20.0	18.3		ug/L		92	53 - 128
Carbon tetrachloride	20.0	16.9		ug/L		85	64 - 134
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120
Bromochloromethane	20.0	18.9		ug/L		94	80 - 120
Chlorodibromomethane	20.0	18.5		ug/L		92	71 - 120
Chloroethane	20.0	18.7		ug/L		94	55 - 123
Chloroform	20.0	18.5		ug/L		92	80 - 120
Chloromethane	20.0	17.0		ug/L		85	56 - 121
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	80 - 125
cis-1,3-Dichloropropene	20.0	17.1		ug/L		86	75 - 120
Dibromomethane	20.0	18.8		ug/L		94	80 - 120
Dichlorobromomethane	20.0	17.6		ug/L		88	71 - 120
Dichlorodifluoromethane	20.0	12.4		ug/L		62	41 - 127
Ethylbenzene	20.0	19.3		ug/L		97	80 - 120
Ethylene Dibromide	20.0	19.3		ug/L		97	77 - 120
Hexachlorobutadiene	20.0	20.5		ug/L		102	63 - 120
Isopropylbenzene	20.0	20.0		ug/L		100	80 - 120
Methyl tert-butyl ether	20.0	18.6		ug/L		93	69 - 122
Methylene Chloride	20.0	19.4		ug/L		97	80 - 120
m-Xylene & p-Xylene	40.0	38.5		ug/L		96	80 - 120
Naphthalene	20.0	20.9		ug/L		105	53 - 124
n-Butylbenzene	20.0	20.9		ug/L		105	76 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-361348/4
Matrix: Water
Analysis Batch: 361348

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	20.0	20.7		ug/L		104	79 - 121
o-Xylene	20.0	19.2		ug/L		96	80 - 120
sec-Butylbenzene	20.0	20.8		ug/L		104	77 - 120
Styrene	20.0	19.2		ug/L		96	80 - 120
tert-Butylbenzene	20.0	20.2		ug/L		101	78 - 120
Tetrachloroethene	20.0	17.9		ug/L		90	80 - 120
Toluene	20.0	20.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	80 - 126
trans-1,3-Dichloropropene	20.0	18.2		ug/L		91	67 - 120
Trichloroethene	20.0	18.4		ug/L		92	80 - 120
Trichlorofluoromethane	20.0	13.8		ug/L		69	55 - 135
Vinyl chloride	20.0	17.4		ug/L		87	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 410-362279/6
Matrix: Water
Analysis Batch: 362279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/07/23 22:47	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/07/23 22:47	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/07/23 22:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/07/23 22:47	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/07/23 22:47	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/07/23 22:47	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
Benzene	ND		1.0	0.30	ug/L			04/07/23 22:47	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-362279/6
Matrix: Water
Analysis Batch: 362279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
Bromoform	ND		4.0	1.0	ug/L			04/07/23 22:47	1
Bromomethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/07/23 22:47	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/07/23 22:47	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/07/23 22:47	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Chloroethane	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Chloroform	ND		1.0	0.30	ug/L			04/07/23 22:47	1
Chloromethane	ND		2.0	0.55	ug/L			04/07/23 22:47	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/07/23 22:47	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Dibromomethane	ND		1.0	0.30	ug/L			04/07/23 22:47	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/23 22:47	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/07/23 22:47	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/07/23 22:47	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/07/23 22:47	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/07/23 22:47	1
Naphthalene	ND		5.0	1.0	ug/L			04/07/23 22:47	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
o-Xylene	ND		1.0	0.40	ug/L			04/07/23 22:47	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
Styrene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/07/23 22:47	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/07/23 22:47	1
Toluene	ND		1.0	0.20	ug/L			04/07/23 22:47	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/07/23 22:47	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Trichloroethene	ND		1.0	0.30	ug/L			04/07/23 22:47	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/07/23 22:47	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/07/23 22:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*04/07/23 22:47*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/07/23 22:47*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/07/23 22:47*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/23 22:47*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-362279/4
Matrix: Water
Analysis Batch: 362279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	17.7		ug/L		89	78 - 120
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	72 - 120
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	80 - 120
1,1-Dichloroethane	20.0	20.7		ug/L		104	80 - 120
1,1-Dichloroethene	20.0	20.8		ug/L		104	80 - 131
1,1-Dichloropropene	20.0	21.0		ug/L		105	78 - 120
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	66 - 120
1,2,3-Trichloropropane	20.0	18.8		ug/L		94	75 - 124
1,2,4-Trichlorobenzene	20.0	18.3		ug/L		91	63 - 120
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		99	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	15.3		ug/L		77	47 - 131
1,2-Dichlorobenzene	20.0	18.4		ug/L		92	80 - 120
1,2-Dichloroethane	20.0	17.9		ug/L		89	73 - 124
1,2-Dichloropropane	20.0	22.3		ug/L		111	80 - 120
1,3,5-Trimethylbenzene	20.0	19.6		ug/L		98	75 - 120
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,3-Dichloropropane	20.0	20.5		ug/L		103	80 - 120
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 120
2,2-Dichloropropane	20.0	18.0		ug/L		90	55 - 142
2-Chlorotoluene	20.0	19.3		ug/L		96	80 - 120
4-Chlorotoluene	20.0	19.3		ug/L		97	80 - 120
4-Isopropyltoluene	20.0	19.7		ug/L		99	76 - 120
Benzene	20.0	22.3		ug/L		112	80 - 120
Bromobenzene	20.0	18.9		ug/L		94	80 - 120
Bromoform	20.0	15.5		ug/L		77	51 - 120
Bromomethane	20.0	18.1		ug/L		90	53 - 128
Carbon tetrachloride	20.0	16.8		ug/L		84	64 - 134
Chlorobenzene	20.0	19.1		ug/L		96	80 - 120
Bromochloromethane	20.0	19.7		ug/L		99	80 - 120
Chlorodibromomethane	20.0	16.8		ug/L		84	71 - 120
Chloroethane	20.0	20.0		ug/L		100	55 - 123
Chloroform	20.0	19.2		ug/L		96	80 - 120
Chloromethane	20.0	21.2		ug/L		106	56 - 121
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	80 - 125
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 120
Dibromomethane	20.0	20.0		ug/L		100	80 - 120
Dichlorobromomethane	20.0	18.7		ug/L		94	71 - 120
Dichlorodifluoromethane	20.0	14.0		ug/L		70	41 - 127
Ethylbenzene	20.0	19.6		ug/L		98	80 - 120
Ethylene Dibromide	20.0	19.2		ug/L		96	77 - 120
Hexachlorobutadiene	20.0	18.4		ug/L		92	63 - 120
Isopropylbenzene	20.0	19.5		ug/L		97	80 - 120
Methyl tert-butyl ether	20.0	19.5		ug/L		98	69 - 122
Methylene Chloride	20.0	21.2		ug/L		106	80 - 120
m-Xylene & p-Xylene	40.0	39.7		ug/L		99	80 - 120
Naphthalene	20.0	18.8		ug/L		94	53 - 124
n-Butylbenzene	20.0	20.4		ug/L		102	76 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-362279/4
Matrix: Water
Analysis Batch: 362279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	20.0	20.4		ug/L		102	79 - 121
o-Xylene	20.0	19.7		ug/L		98	80 - 120
sec-Butylbenzene	20.0	20.3		ug/L		102	77 - 120
Styrene	20.0	19.4		ug/L		97	80 - 120
tert-Butylbenzene	20.0	18.7		ug/L		93	78 - 120
Tetrachloroethene	20.0	18.4		ug/L		92	80 - 120
Toluene	20.0	20.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	80 - 126
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	67 - 120
Trichloroethene	20.0	19.5		ug/L		97	80 - 120
Trichlorofluoromethane	20.0	14.5		ug/L		72	55 - 135
Vinyl chloride	20.0	20.0		ug/L		100	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 410-362909/6
Matrix: Water
Analysis Batch: 362909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/11/23 09:58	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/11/23 09:58	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/11/23 09:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/11/23 09:58	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/11/23 09:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/11/23 09:58	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
Benzene	ND		1.0	0.30	ug/L			04/11/23 09:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-362909/6
Matrix: Water
Analysis Batch: 362909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
Bromoform	ND		4.0	1.0	ug/L			04/11/23 09:58	1
Bromomethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/11/23 09:58	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/11/23 09:58	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/11/23 09:58	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Chloroethane	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Chloroform	ND		1.0	0.30	ug/L			04/11/23 09:58	1
Chloromethane	ND		2.0	0.55	ug/L			04/11/23 09:58	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/11/23 09:58	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Dibromomethane	ND		1.0	0.30	ug/L			04/11/23 09:58	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/11/23 09:58	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/11/23 09:58	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/11/23 09:58	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/11/23 09:58	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/11/23 09:58	1
Naphthalene	ND		5.0	1.0	ug/L			04/11/23 09:58	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
o-Xylene	ND		1.0	0.40	ug/L			04/11/23 09:58	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
Styrene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/11/23 09:58	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/11/23 09:58	1
Toluene	ND		1.0	0.20	ug/L			04/11/23 09:58	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/11/23 09:58	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Trichloroethene	ND		1.0	0.30	ug/L			04/11/23 09:58	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/11/23 09:58	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/11/23 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/11/23 09:58*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/11/23 09:58*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*04/11/23 09:58*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/11/23 09:58*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-362909/4
Matrix: Water
Analysis Batch: 362909

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	16.9		ug/L		84	78 - 120
1,1,1-Trichloroethane	20.0	16.1		ug/L		80	67 - 126
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	72 - 120
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	80 - 120
1,1-Dichloroethane	20.0	18.3		ug/L		91	80 - 120
1,1-Dichloroethene	20.0	18.3		ug/L		91	80 - 131
1,1-Dichloropropene	20.0	18.6		ug/L		93	78 - 120
1,2,3-Trichlorobenzene	20.0	19.0		ug/L		95	66 - 120
1,2,3-Trichloropropane	20.0	19.1		ug/L		95	75 - 124
1,2,4-Trichlorobenzene	20.0	18.1		ug/L		91	63 - 120
1,2,4-Trimethylbenzene	20.0	19.4		ug/L		97	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	15.9		ug/L		79	47 - 131
1,2-Dichlorobenzene	20.0	18.4		ug/L		92	80 - 120
1,2-Dichloroethane	20.0	15.7		ug/L		78	73 - 124
1,2-Dichloropropane	20.0	19.8		ug/L		99	80 - 120
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		97	75 - 120
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
1,3-Dichloropropane	20.0	19.9		ug/L		100	80 - 120
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120
2,2-Dichloropropane	20.0	16.5		ug/L		82	55 - 142
2-Chlorotoluene	20.0	18.8		ug/L		94	80 - 120
4-Chlorotoluene	20.0	19.3		ug/L		96	80 - 120
4-Isopropyltoluene	20.0	19.3		ug/L		96	76 - 120
Benzene	20.0	19.8		ug/L		99	80 - 120
Bromobenzene	20.0	19.0		ug/L		95	80 - 120
Bromoform	20.0	15.9		ug/L		80	51 - 120
Bromomethane	20.0	16.2		ug/L		81	53 - 128
Carbon tetrachloride	20.0	15.1		ug/L		75	64 - 134
Chlorobenzene	20.0	18.2		ug/L		91	80 - 120
Bromochloromethane	20.0	17.8		ug/L		89	80 - 120
Chlorodibromomethane	20.0	17.0		ug/L		85	71 - 120
Chloroethane	20.0	18.2		ug/L		91	55 - 123
Chloroform	20.0	17.2		ug/L		86	80 - 120
Chloromethane	20.0	17.2		ug/L		86	56 - 121
cis-1,2-Dichloroethene	20.0	18.7		ug/L		93	80 - 125
cis-1,3-Dichloropropene	20.0	17.7		ug/L		89	75 - 120
Dibromomethane	20.0	18.1		ug/L		90	80 - 120
Dichlorobromomethane	20.0	16.7		ug/L		84	71 - 120
Dichlorodifluoromethane	20.0	9.95		ug/L		50	41 - 127
Ethylbenzene	20.0	18.8		ug/L		94	80 - 120
Ethylene Dibromide	20.0	18.4		ug/L		92	77 - 120
Hexachlorobutadiene	20.0	17.9		ug/L		90	63 - 120
Isopropylbenzene	20.0	18.5		ug/L		93	80 - 120
Methyl tert-butyl ether	20.0	17.4		ug/L		87	69 - 122
Methylene Chloride	20.0	18.6		ug/L		93	80 - 120
m-Xylene & p-Xylene	40.0	38.1		ug/L		95	80 - 120
Naphthalene	20.0	19.0		ug/L		95	53 - 124
n-Butylbenzene	20.0	19.7		ug/L		99	76 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-362909/4
Matrix: Water
Analysis Batch: 362909

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	20.0	20.3		ug/L		101	79 - 121
o-Xylene	20.0	18.6		ug/L		93	80 - 120
sec-Butylbenzene	20.0	20.0		ug/L		100	77 - 120
Styrene	20.0	18.7		ug/L		93	80 - 120
tert-Butylbenzene	20.0	18.9		ug/L		94	78 - 120
Tetrachloroethene	20.0	17.5		ug/L		87	80 - 120
Toluene	20.0	19.3		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	18.3		ug/L		91	80 - 126
trans-1,3-Dichloropropene	20.0	17.6		ug/L		88	67 - 120
Trichloroethene	20.0	17.7		ug/L		89	80 - 120
Trichlorofluoromethane	20.0	11.1		ug/L		56	55 - 135
Vinyl chloride	20.0	16.3		ug/L		82	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 410-363893/6
Matrix: Water
Analysis Batch: 363893

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,1-Dichloropropene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/13/23 11:05	1
1,2,3-Trichloropropane	ND		5.0	0.30	ug/L			04/13/23 11:05	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			04/13/23 11:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			04/13/23 11:05	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			04/13/23 11:05	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			04/13/23 11:05	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
2-Chlorotoluene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
4-Chlorotoluene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
4-Isopropyltoluene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
Benzene	ND		1.0	0.30	ug/L			04/13/23 11:05	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-363893/6
Matrix: Water
Analysis Batch: 363893

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
Bromoform	ND		4.0	1.0	ug/L			04/13/23 11:05	1
Bromomethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/13/23 11:05	1
Chlorobenzene	ND		1.0	0.30	ug/L			04/13/23 11:05	1
Bromochloromethane	ND		5.0	0.20	ug/L			04/13/23 11:05	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Chloroethane	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Chloroform	ND		1.0	0.30	ug/L			04/13/23 11:05	1
Chloromethane	ND		2.0	0.55	ug/L			04/13/23 11:05	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/13/23 11:05	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Dibromomethane	ND		1.0	0.30	ug/L			04/13/23 11:05	1
Dichlorobromomethane	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/13/23 11:05	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Hexachlorobutadiene	ND		5.0	2.0	ug/L			04/13/23 11:05	1
Isopropylbenzene	ND		5.0	0.20	ug/L			04/13/23 11:05	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Methylene Chloride	ND		1.0	0.30	ug/L			04/13/23 11:05	1
m-Xylene & p-Xylene	ND		5.0	2.0	ug/L			04/13/23 11:05	1
Naphthalene	ND		5.0	1.0	ug/L			04/13/23 11:05	1
n-Butylbenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
N-Propylbenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
o-Xylene	ND		1.0	0.40	ug/L			04/13/23 11:05	1
sec-Butylbenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
Styrene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
tert-Butylbenzene	ND		5.0	0.30	ug/L			04/13/23 11:05	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/13/23 11:05	1
Toluene	ND		1.0	0.20	ug/L			04/13/23 11:05	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			04/13/23 11:05	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Trichloroethene	ND		1.0	0.30	ug/L			04/13/23 11:05	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			04/13/23 11:05	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/13/23 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/13/23 11:05*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/13/23 11:05*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*04/13/23 11:05*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/13/23 11:05*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-363893/4
Matrix: Water
Analysis Batch: 363893

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.2		ug/L		91	78 - 120
1,1,1-Trichloroethane	20.0	17.5		ug/L		87	67 - 126
1,1,2,2-Tetrachloroethane	20.0	23.2		ug/L		116	72 - 120
1,1,2-Trichloroethane	20.0	20.7		ug/L		104	80 - 120
1,1-Dichloroethane	20.0	19.9		ug/L		100	80 - 120
1,1-Dichloroethene	20.0	20.5		ug/L		102	80 - 131
1,1-Dichloropropene	20.0	20.2		ug/L		101	78 - 120
1,2,3-Trichlorobenzene	20.0	20.6		ug/L		103	66 - 120
1,2,3-Trichloropropane	20.0	21.1		ug/L		106	75 - 124
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	63 - 120
1,2,4-Trimethylbenzene	20.0	21.9		ug/L		109	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.0		ug/L		85	47 - 131
1,2-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 120
1,2-Dichloroethane	20.0	17.2		ug/L		86	73 - 124
1,2-Dichloropropane	20.0	22.0		ug/L		110	80 - 120
1,3,5-Trimethylbenzene	20.0	22.2		ug/L		111	75 - 120
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120
1,3-Dichloropropane	20.0	20.1		ug/L		100	80 - 120
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120
2,2-Dichloropropane	20.0	18.7		ug/L		94	55 - 142
2-Chlorotoluene	20.0	21.6		ug/L		108	80 - 120
4-Chlorotoluene	20.0	22.3		ug/L		111	80 - 120
4-Isopropyltoluene	20.0	21.0		ug/L		105	76 - 120
Benzene	20.0	21.4		ug/L		107	80 - 120
Bromobenzene	20.0	21.8		ug/L		109	80 - 120
Bromoform	20.0	16.7		ug/L		84	51 - 120
Bromomethane	20.0	17.8		ug/L		89	53 - 128
Carbon tetrachloride	20.0	16.2		ug/L		81	64 - 134
Chlorobenzene	20.0	19.9		ug/L		99	80 - 120
Bromochloromethane	20.0	20.0		ug/L		100	80 - 120
Chlorodibromomethane	20.0	17.3		ug/L		86	71 - 120
Chloroethane	20.0	19.2		ug/L		96	55 - 123
Chloroform	20.0	18.5		ug/L		92	80 - 120
Chloromethane	20.0	19.3		ug/L		97	56 - 121
cis-1,2-Dichloroethene	20.0	20.7		ug/L		103	80 - 125
cis-1,3-Dichloropropene	20.0	19.1		ug/L		96	75 - 120
Dibromomethane	20.0	20.0		ug/L		100	80 - 120
Dichlorobromomethane	20.0	19.1		ug/L		95	71 - 120
Dichlorodifluoromethane	20.0	12.2		ug/L		61	41 - 127
Ethylbenzene	20.0	20.7		ug/L		104	80 - 120
Ethylene Dibromide	20.0	19.2		ug/L		96	77 - 120
Hexachlorobutadiene	20.0	20.0		ug/L		100	63 - 120
Isopropylbenzene	20.0	20.5		ug/L		102	80 - 120
Methyl tert-butyl ether	20.0	19.1		ug/L		95	69 - 122
Methylene Chloride	20.0	21.1		ug/L		106	80 - 120
m-Xylene & p-Xylene	40.0	40.0		ug/L		100	80 - 120
Naphthalene	20.0	20.1		ug/L		100	53 - 124
n-Butylbenzene	20.0	21.7		ug/L		109	76 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-363893/4
Matrix: Water
Analysis Batch: 363893

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	20.0	22.6		ug/L		113	79 - 121
o-Xylene	20.0	20.4		ug/L		102	80 - 120
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 120
Styrene	20.0	20.4		ug/L		102	80 - 120
tert-Butylbenzene	20.0	21.2		ug/L		106	78 - 120
Tetrachloroethene	20.0	18.3		ug/L		91	80 - 120
Toluene	20.0	20.7		ug/L		104	80 - 120
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	80 - 126
trans-1,3-Dichloropropene	20.0	19.1		ug/L		95	67 - 120
Trichloroethene	20.0	19.8		ug/L		99	80 - 120
Trichlorofluoromethane	20.0	13.7		ug/L		69	55 - 135
Vinyl chloride	20.0	18.1		ug/L		90	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MRL 410-363893/5
Matrix: Water
Analysis Batch: 363893

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	1.00	1.18		ug/L		118	50 - 150
1,1,1-Trichloroethane	1.00	1.01		ug/L		101	50 - 150
1,1,2,2-Tetrachloroethane	1.00	1.28		ug/L		128	50 - 150
1,1,2-Trichloroethane	1.00	1.39		ug/L		139	50 - 150
1,1-Dichloroethane	1.00	1.24		ug/L		124	50 - 150
1,1-Dichloroethene	1.00	1.07		ug/L		107	50 - 150
1,1-Dichloropropene	1.00	1.04	J	ug/L		104	50 - 150
1,2,3-Trichlorobenzene	1.00	1.73	J ^3+	ug/L		173	50 - 150
1,2,3-Trichloropropane	1.00	1.23	J	ug/L		123	50 - 150
1,2,4-Trichlorobenzene	1.00	1.59	J ^3+	ug/L		159	50 - 150
1,2,4-Trimethylbenzene	1.00	1.13	J	ug/L		113	50 - 150
1,2-Dibromo-3-Chloropropane	1.00	1.11	J	ug/L		111	50 - 150
1,2-Dichlorobenzene	1.00	1.37	J	ug/L		137	50 - 150
1,2-Dichloroethane	1.00	0.933	J	ug/L		93	50 - 150
1,2-Dichloropropane	1.00	1.38		ug/L		138	50 - 150
1,3,5-Trimethylbenzene	1.00	1.09	J	ug/L		109	50 - 150
1,3-Dichlorobenzene	1.00	1.38	J	ug/L		138	50 - 150
1,3-Dichloropropane	1.00	1.37		ug/L		137	50 - 150
1,4-Dichlorobenzene	1.00	1.03	J	ug/L		103	50 - 150
2,2-Dichloropropane	1.00	1.04		ug/L		104	50 - 150
2-Chlorotoluene	1.00	1.27	J	ug/L		127	50 - 150
4-Chlorotoluene	1.00	1.23	J	ug/L		123	50 - 150
4-Isopropyltoluene	1.00	0.992	J	ug/L		99	50 - 150
Benzene	1.00	1.35		ug/L		135	50 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MRL 410-363893/5
Matrix: Water
Analysis Batch: 363893

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	1.00	1.37	J	ug/L		137	50 - 150
Bromoform	1.00	1.03	J	ug/L		103	50 - 150
Bromomethane	1.00	1.27		ug/L		127	50 - 150
Carbon tetrachloride	1.00	0.822	J	ug/L		82	50 - 150
Chlorobenzene	1.00	1.32		ug/L		132	50 - 150
Bromochloromethane	1.00	1.25	J	ug/L		125	50 - 150
Chlorodibromomethane	1.00	1.15		ug/L		115	50 - 150
Chloroethane	1.00	1.13		ug/L		113	50 - 150
Chloroform	1.00	1.31		ug/L		131	50 - 150
Chloromethane	1.00	0.564	J	ug/L		56	50 - 150
cis-1,2-Dichloroethene	1.00	1.37		ug/L		137	50 - 150
cis-1,3-Dichloropropene	1.00	1.18		ug/L		118	50 - 150
Dibromomethane	1.00	1.27		ug/L		127	50 - 150
Dichlorobromomethane	1.00	1.11		ug/L		111	50 - 150
Dichlorodifluoromethane	1.00	0.522	J	ug/L		52	50 - 150
Ethylbenzene	1.00	1.16		ug/L		116	50 - 150
Ethylene Dibromide	1.00	1.18		ug/L		118	50 - 150
Hexachlorobutadiene	1.00	2.34	J ^3+	ug/L		234	50 - 150
Isopropylbenzene	1.00	0.950	J	ug/L		95	50 - 150
Methyl tert-butyl ether	1.00	1.15		ug/L		115	50 - 150
Methylene Chloride	1.00	1.38		ug/L		138	50 - 150
m-Xylene & p-Xylene	2.00	2.36	J	ug/L		118	50 - 150
Naphthalene	1.00	1.38	J	ug/L		138	50 - 150
n-Butylbenzene	1.00	1.23	J	ug/L		123	50 - 150
N-Propylbenzene	1.00	1.17	J	ug/L		117	50 - 150
o-Xylene	1.00	1.19		ug/L		119	50 - 150
sec-Butylbenzene	1.00	1.03	J	ug/L		103	50 - 150
Styrene	1.00	0.973	J	ug/L		97	50 - 150
tert-Butylbenzene	1.00	1.02	J	ug/L		102	50 - 150
Tetrachloroethene	1.00	1.09		ug/L		109	50 - 150
Toluene	1.00	1.27		ug/L		127	50 - 150
trans-1,2-Dichloroethene	1.00	1.24	J	ug/L		124	50 - 150
trans-1,3-Dichloropropene	1.00	1.24		ug/L		124	50 - 150
Trichloroethene	1.00	1.13		ug/L		113	50 - 150
Trichlorofluoromethane	1.00	0.704	J	ug/L		70	50 - 150
Vinyl chloride	1.00	1.13		ug/L		113	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 150*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*
Dibromofluoromethane (Surr)	*92*		*50 - 150*
Toluene-d8 (Surr)	*97*		*50 - 150*

Method: EPA 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-431682/9
Matrix: Water
Analysis Batch: 431682

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		5.0	2.9	ug/L			04/07/23 11:45	1
Chloromethane	ND		5.0	3.9	ug/L			04/07/23 11:45	1
Vinyl chloride	ND		5.0	3.7	ug/L			04/07/23 11:45	1
Bromomethane	ND		5.0	4.5	ug/L			04/07/23 11:45	1
Chloroethane	ND		5.0	2.6	ug/L			04/07/23 11:45	1
Trichlorofluoromethane	ND		5.0	1.5	ug/L			04/07/23 11:45	1
1,1-Dichloroethene	ND		5.0	2.9	ug/L			04/07/23 11:45	1
Methylene Chloride	ND		5.0	3.9	ug/L			04/07/23 11:45	1
Methyl tert-butyl ether	ND		5.0	3.7	ug/L			04/07/23 11:45	1
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			04/07/23 11:45	1
1,1-Dichloroethane	ND		5.0	1.8	ug/L			04/07/23 11:45	1
2,2-Dichloropropane	ND		5.0	2.5	ug/L			04/07/23 11:45	1
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/L			04/07/23 11:45	1
Bromochloromethane	ND		5.0	1.9	ug/L			04/07/23 11:45	1
Chloroform	ND		5.0	2.1	ug/L			04/07/23 11:45	1
1,1,1-Trichloroethane	ND		5.0	2.5	ug/L			04/07/23 11:45	1
Carbon tetrachloride	ND		5.0	3.3	ug/L			04/07/23 11:45	1
1,1-Dichloropropene	ND		5.0	1.7	ug/L			04/07/23 11:45	1
Benzene	ND		5.0	2.0	ug/L			04/07/23 11:45	1
1,2-Dichloroethane	ND		5.0	1.5	ug/L			04/07/23 11:45	1
Trichloroethene	ND		5.0	1.5	ug/L			04/07/23 11:45	1
1,2-Dichloropropane	ND		5.0	2.5	ug/L			04/07/23 11:45	1
Dibromomethane	ND		5.0	2.2	ug/L			04/07/23 11:45	1
Dichlorobromomethane	ND		5.0	2.4	ug/L			04/07/23 11:45	1
cis-1,3-Dichloropropene	ND		5.0	1.6	ug/L			04/07/23 11:45	1
Toluene	ND		5.0	1.7	ug/L			04/07/23 11:45	1
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			04/07/23 11:45	1
1,1,2-Trichloroethane	ND		5.0	2.4	ug/L			04/07/23 11:45	1
Tetrachloroethene	ND		5.0	2.0	ug/L			04/07/23 11:45	1
1,3-Dichloropropane	ND		5.0	2.6	ug/L			04/07/23 11:45	1
Chlorodibromomethane	ND		5.0	2.4	ug/L			04/07/23 11:45	1
Ethylene Dibromide	ND		5.0	2.7	ug/L			04/07/23 11:45	1
Chlorobenzene	ND		5.0	1.6	ug/L			04/07/23 11:45	1
1,1,1,2-Tetrachloroethane	ND		5.0	3.9	ug/L			04/07/23 11:45	1
Ethylbenzene	ND		5.0	2.2	ug/L			04/07/23 11:45	1
m-Xylene & p-Xylene	ND		5.0	1.9	ug/L			04/07/23 11:45	1
o-Xylene	ND		5.0	2.4	ug/L			04/07/23 11:45	1
Styrene	ND		5.0	1.3	ug/L			04/07/23 11:45	1
Bromoform	ND		5.0	2.6	ug/L			04/07/23 11:45	1
Isopropylbenzene	ND		5.0	2.3	ug/L			04/07/23 11:45	1
Bromobenzene	ND		5.0	1.6	ug/L			04/07/23 11:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/L			04/07/23 11:45	1
1,2,3-Trichloropropane	ND		5.0	2.8	ug/L			04/07/23 11:45	1
N-Propylbenzene	ND		5.0	2.1	ug/L			04/07/23 11:45	1
2-Chlorotoluene	ND		5.0	1.9	ug/L			04/07/23 11:45	1
4-Chlorotoluene	ND		5.0	1.8	ug/L			04/07/23 11:45	1
tert-Butylbenzene	ND		5.0	1.8	ug/L			04/07/23 11:45	1
1,2,4-Trimethylbenzene	ND		5.0	1.3	ug/L			04/07/23 11:45	1

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-431682/9
Matrix: Water
Analysis Batch: 431682

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	2.4	ug/L			04/07/23 11:45	1
4-Isopropyltoluene	ND		5.0	2.2	ug/L			04/07/23 11:45	1
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			04/07/23 11:45	1
1,4-Dichlorobenzene	ND		5.0	1.0	ug/L			04/07/23 11:45	1
n-Butylbenzene	ND		5.0	3.8	ug/L			04/07/23 11:45	1
1,2-Dichlorobenzene	ND		5.0	2.0	ug/L			04/07/23 11:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	3.1	ug/L			04/07/23 11:45	1
1,2,4-Trichlorobenzene	ND		5.0	3.7	ug/L			04/07/23 11:45	1
Hexachlorobutadiene	ND		5.0	1.8	ug/L			04/07/23 11:45	1
Naphthalene	ND		5.0	3.9	ug/L			04/07/23 11:45	1
1,2,3-Trichlorobenzene	ND		5.0	3.5	ug/L			04/07/23 11:45	1
1,3,5-Trimethylbenzene	ND		5.0	1.7	ug/L			04/07/23 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*82*		*53 - 124*		*04/07/23 11:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 151*		*04/07/23 11:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*49 - 118*		*04/07/23 11:45*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 132*		*04/07/23 11:45*	*1*

Lab Sample ID: LCS 180-431682/6
Matrix: Water
Analysis Batch: 431682

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10.0	10.1		ug/L		101	21 - 165
Chloromethane	10.0	9.52		ug/L		95	37 - 170
Vinyl chloride	10.0	9.60		ug/L		96	47 - 147
Bromomethane	10.0	10.1		ug/L		101	20 - 170
Chloroethane	10.0	10.3		ug/L		103	10 - 170
Trichlorofluoromethane	10.0	10.5		ug/L		105	32 - 157
1,1-Dichloroethene	10.0	10.1		ug/L		101	49 - 132
Methylene Chloride	10.0	9.73		ug/L		97	51 - 137
Methyl tert-butyl ether	10.0	9.80		ug/L		98	36 - 141
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	62 - 126
1,1-Dichloroethane	10.0	9.84		ug/L		98	59 - 125
2,2-Dichloropropane	10.0	10.1		ug/L		101	51 - 143
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	64 - 122
Bromochloromethane	10.0	10.1		ug/L		101	59 - 133
Chloroform	10.0	10.3		ug/L		103	62 - 121
1,1,1-Trichloroethane	10.0	9.55		ug/L		95	64 - 133
Carbon tetrachloride	10.0	10.2		ug/L		102	60 - 135
1,1-Dichloropropene	10.0	10.3		ug/L		103	48 - 133
Benzene	10.0	10.2		ug/L		102	68 - 122
1,2-Dichloroethane	10.0	10.1		ug/L		101	57 - 149
Trichloroethene	10.0	10.3		ug/L		103	67 - 121
1,2-Dichloropropane	10.0	9.94		ug/L		99	65 - 129
Dibromomethane	10.0	10.6		ug/L		106	55 - 148
Dichlorobromomethane	10.0	9.40		ug/L		94	63 - 132

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-431682/6
Matrix: Water
Analysis Batch: 431682

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	53 - 140
Toluene	10.0	10.1		ug/L		101	67 - 128
trans-1,3-Dichloropropene	10.0	8.98		ug/L		90	57 - 137
1,1,2-Trichloroethane	10.0	9.83		ug/L		98	59 - 137
Tetrachloroethene	10.0	10.2		ug/L		102	60 - 129
1,3-Dichloropropane	10.0	9.70		ug/L		97	63 - 131
Chlorodibromomethane	10.0	9.43		ug/L		94	51 - 144
Ethylene Dibromide	10.0	9.91		ug/L		99	55 - 146
Chlorobenzene	10.0	10.0		ug/L		100	72 - 123
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	67 - 126
Ethylbenzene	10.0	10.5		ug/L		105	66 - 122
m-Xylene & p-Xylene	10.0	9.88		ug/L		99	61 - 128
o-Xylene	10.0	9.91		ug/L		99	64 - 120
Styrene	10.0	10.1		ug/L		101	68 - 127
Bromoform	10.0	9.91		ug/L		99	31 - 164
Isopropylbenzene	10.0	9.94		ug/L		99	54 - 130
Bromobenzene	10.0	9.99		ug/L		100	68 - 132
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	47 - 147
1,2,3-Trichloropropane	10.0	10.2		ug/L		102	39 - 163
N-Propylbenzene	10.0	9.81		ug/L		98	58 - 130
2-Chlorotoluene	10.0	10.4		ug/L		104	64 - 128
4-Chlorotoluene	10.0	10.6		ug/L		106	65 - 130
tert-Butylbenzene	10.0	9.84		ug/L		98	58 - 129
1,2,4-Trimethylbenzene	10.0	9.68		ug/L		97	65 - 127
sec-Butylbenzene	10.0	9.82		ug/L		98	53 - 126
4-Isopropyltoluene	10.0	10.0		ug/L		100	57 - 126
1,3-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 119
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	74 - 117
n-Butylbenzene	10.0	9.68		ug/L		97	50 - 130
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	68 - 116
1,2-Dibromo-3-Chloropropane	10.0	8.91		ug/L		89	10 - 170
1,2,4-Trichlorobenzene	10.0	7.46		ug/L		75	15 - 169
Hexachlorobutadiene	10.0	8.52		ug/L		85	28 - 153
Naphthalene	10.0	9.44		ug/L		94	10 - 170
1,2,3-Trichlorobenzene	10.0	11.0		ug/L		110	10 - 170
1,3,5-Trimethylbenzene	10.0	9.93		ug/L		99	59 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*76*		*53 - 124*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 151*
4-Bromofluorobenzene (Surr)	*87*		*49 - 118*
Dibromofluoromethane (Surr)	*85*		*60 - 132*

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-154079-37 MS
Matrix: Water
Analysis Batch: 431682

Client Sample ID: MW-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	ND	H	10.0	10.9		ug/L		109	21 - 165
Chloromethane	ND	H	10.0	9.84		ug/L		98	37 - 170
Vinyl chloride	ND	H	10.0	9.79		ug/L		98	47 - 147
Bromomethane	ND	H	10.0	11.2		ug/L		112	20 - 170
Chloroethane	ND	H	10.0	10.0		ug/L		100	10 - 170
Trichlorofluoromethane	ND	H	10.0	10.3		ug/L		103	32 - 157
1,1-Dichloroethene	ND	H	10.0	9.81		ug/L		98	49 - 132
Methylene Chloride	ND	H	10.0	9.48		ug/L		95	51 - 137
Methyl tert-butyl ether	ND	H	10.0	9.85		ug/L		99	36 - 141
trans-1,2-Dichloroethene	ND	H	10.0	9.95		ug/L		100	62 - 126
1,1-Dichloroethane	ND	H	10.0	10.3		ug/L		103	59 - 125
2,2-Dichloropropane	ND	H	10.0	10.1		ug/L		101	51 - 143
cis-1,2-Dichloroethene	ND	H	10.0	9.80		ug/L		98	64 - 122
Bromochloromethane	ND	H	10.0	10.4		ug/L		104	59 - 133
Chloroform	ND	H	10.0	11.0		ug/L		110	62 - 121
1,1,1-Trichloroethane	ND	H	10.0	10.1		ug/L		101	64 - 133
Carbon tetrachloride	ND	H	10.0	10.0		ug/L		100	60 - 135
1,1-Dichloropropene	ND	H	10.0	10.5		ug/L		105	48 - 133
Benzene	ND	H	10.0	10.2		ug/L		102	68 - 122
1,2-Dichloroethane	ND	H	10.0	10.5		ug/L		105	57 - 149
Trichloroethene	ND	H	10.0	9.96		ug/L		100	67 - 121
1,2-Dichloropropane	ND	H	10.0	9.74		ug/L		97	65 - 129
Dibromomethane	ND	H	10.0	10.5		ug/L		105	55 - 148
Dichlorobromomethane	ND	H	10.0	10.1		ug/L		101	63 - 132
cis-1,3-Dichloropropene	ND	H	10.0	9.69		ug/L		97	53 - 140
Toluene	ND	H	10.0	9.86		ug/L		99	67 - 128
trans-1,3-Dichloropropene	ND	H	10.0	9.00		ug/L		90	57 - 137
1,1,2-Trichloroethane	ND	H	10.0	9.50		ug/L		95	59 - 137
Tetrachloroethene	ND	H	10.0	9.70		ug/L		97	60 - 129
1,3-Dichloropropane	ND	H	10.0	9.90		ug/L		99	63 - 131
Chlorodibromomethane	ND	H	10.0	10.7		ug/L		107	51 - 144
Ethylene Dibromide	ND	H	10.0	9.98		ug/L		100	55 - 146
Chlorobenzene	ND	H	10.0	10.1		ug/L		101	72 - 123
1,1,1,2-Tetrachloroethane	ND	H	10.0	9.83		ug/L		98	67 - 126
Ethylbenzene	ND	H	10.0	10.0		ug/L		100	66 - 122
m-Xylene & p-Xylene	ND	H	10.0	9.69		ug/L		97	61 - 128
o-Xylene	ND	H	10.0	9.39		ug/L		94	64 - 120
Styrene	ND	H	10.0	9.94		ug/L		99	68 - 127
Bromoform	ND	H	10.0	9.95		ug/L		99	31 - 164
Isopropylbenzene	ND	H	10.0	9.51		ug/L		95	54 - 130
Bromobenzene	ND	H	10.0	10.7		ug/L		107	68 - 132
1,1,2,2-Tetrachloroethane	ND	H	10.0	9.77		ug/L		98	47 - 147
1,2,3-Trichloropropane	ND	H	10.0	9.64		ug/L		96	39 - 163
N-Propylbenzene	ND	H	10.0	9.84		ug/L		98	58 - 130
2-Chlorotoluene	ND	H	10.0	10.4		ug/L		104	64 - 128
4-Chlorotoluene	ND	H	10.0	10.5		ug/L		105	65 - 130
tert-Butylbenzene	ND	H	10.0	9.99		ug/L		100	58 - 129
1,2,4-Trimethylbenzene	ND	H	10.0	9.62		ug/L		96	65 - 127

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-154079-37 MS
Matrix: Water
Analysis Batch: 431682

Client Sample ID: MW-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	ND	H	10.0	9.66		ug/L		97	53 - 126
4-Isopropyltoluene	ND	H	10.0	9.86		ug/L		99	57 - 126
1,3-Dichlorobenzene	ND	H	10.0	11.1		ug/L		111	70 - 119
1,4-Dichlorobenzene	ND	H	10.0	10.2		ug/L		102	74 - 117
n-Butylbenzene	ND	H	10.0	9.19		ug/L		92	50 - 130
1,2-Dichlorobenzene	ND	H	10.0	10.8		ug/L		108	68 - 116
1,2-Dibromo-3-Chloropropane	ND	H	10.0	8.41		ug/L		84	10 - 170
1,2,4-Trichlorobenzene	ND	H	10.0	10.6		ug/L		106	15 - 169
Hexachlorobutadiene	ND	H	10.0	9.00		ug/L		90	28 - 153
Naphthalene	ND	H	10.0	10.1		ug/L		101	10 - 170
1,2,3-Trichlorobenzene	ND	H F2	10.0	10.6		ug/L		106	10 - 170
1,3,5-Trimethylbenzene	ND	H	10.0	9.94		ug/L		99	59 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*53 - 124*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 151*
4-Bromofluorobenzene (Surr)	*96*		*49 - 118*
Dibromofluoromethane (Surr)	*107*		*60 - 132*

Lab Sample ID: 180-154079-37 MSD
Matrix: Water
Analysis Batch: 431682

Client Sample ID: MW-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND	H	10.0	10.6		ug/L		106	21 - 165	3	26
Chloromethane	ND	H	10.0	9.94		ug/L		99	37 - 170	1	28
Vinyl chloride	ND	H	10.0	9.99		ug/L		100	47 - 147	2	25
Bromomethane	ND	H	10.0	10.1		ug/L		101	20 - 170	10	30
Chloroethane	ND	H	10.0	10.5		ug/L		105	10 - 170	5	29
Trichlorofluoromethane	ND	H	10.0	10.3		ug/L		103	32 - 157	0	35
1,1-Dichloroethene	ND	H	10.0	10.1		ug/L		101	49 - 132	3	23
Methylene Chloride	ND	H	10.0	9.26		ug/L		93	51 - 137	2	35
Methyl tert-butyl ether	ND	H	10.0	9.74		ug/L		97	36 - 141	1	35
trans-1,2-Dichloroethene	ND	H	10.0	10.1		ug/L		101	62 - 126	1	23
1,1-Dichloroethane	ND	H	10.0	10.0		ug/L		100	59 - 125	3	20
2,2-Dichloropropane	ND	H	10.0	9.91		ug/L		99	51 - 143	2	26
cis-1,2-Dichloroethene	ND	H	10.0	9.85		ug/L		99	64 - 122	0	22
Bromochloromethane	ND	H	10.0	10.4		ug/L		104	59 - 133	1	26
Chloroform	ND	H	10.0	10.9		ug/L		109	62 - 121	1	22
1,1,1-Trichloroethane	ND	H	10.0	10.1		ug/L		101	64 - 133	1	22
Carbon tetrachloride	ND	H	10.0	10.3		ug/L		103	60 - 135	2	25
1,1-Dichloropropene	ND	H	10.0	10.1		ug/L		101	48 - 133	4	24
Benzene	ND	H	10.0	9.96		ug/L		100	68 - 122	2	21
1,2-Dichloroethane	ND	H	10.0	10.4		ug/L		104	57 - 149	1	27
Trichloroethene	ND	H	10.0	9.65		ug/L		97	67 - 121	3	23
1,2-Dichloropropane	ND	H	10.0	9.36		ug/L		94	65 - 129	4	23
Dibromomethane	ND	H	10.0	9.80		ug/L		98	55 - 148	7	31
Dichlorobromomethane	ND	H	10.0	9.38		ug/L		94	63 - 132	7	24

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-154079-37 MSD
Matrix: Water
Analysis Batch: 431682

Client Sample ID: MW-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND	H	10.0	9.51		ug/L		95	53 - 140	2	26
Toluene	ND	H	10.0	9.52		ug/L		95	67 - 128	4	22
trans-1,3-Dichloropropene	ND	H	10.0	8.30		ug/L		83	57 - 137	8	25
1,1,2-Trichloroethane	ND	H	10.0	9.20		ug/L		92	59 - 137	3	29
Tetrachloroethene	ND	H	10.0	9.86		ug/L		99	60 - 129	2	22
1,3-Dichloropropane	ND	H	10.0	9.23		ug/L		92	63 - 131	7	27
Chlorodibromomethane	ND	H	10.0	9.22		ug/L		92	51 - 144	15	25
Ethylene Dibromide	ND	H	10.0	9.32		ug/L		93	55 - 146	7	30
Chlorobenzene	ND	H	10.0	9.55		ug/L		96	72 - 123	6	19
1,1,1,2-Tetrachloroethane	ND	H	10.0	9.68		ug/L		97	67 - 126	2	21
Ethylbenzene	ND	H	10.0	9.31		ug/L		93	66 - 122	7	22
m-Xylene & p-Xylene	ND	H	10.0	8.89		ug/L		89	61 - 128	9	21
o-Xylene	ND	H	10.0	8.83		ug/L		88	64 - 120	6	23
Styrene	ND	H	10.0	9.25		ug/L		93	68 - 127	7	22
Bromoform	ND	H	10.0	8.95		ug/L		90	31 - 164	11	35
Isopropylbenzene	ND	H	10.0	8.88		ug/L		89	54 - 130	7	22
Bromobenzene	ND	H	10.0	10.5		ug/L		105	68 - 132	1	20
1,1,2,2-Tetrachloroethane	ND	H	10.0	9.48		ug/L		95	47 - 147	3	35
1,2,3-Trichloropropane	ND	H	10.0	9.36		ug/L		94	39 - 163	3	31
N-Propylbenzene	ND	H	10.0	9.71		ug/L		97	58 - 130	1	22
2-Chlorotoluene	ND	H	10.0	10.4		ug/L		104	64 - 128	0	20
4-Chlorotoluene	ND	H	10.0	10.3		ug/L		103	65 - 130	2	19
tert-Butylbenzene	ND	H	10.0	9.36		ug/L		94	58 - 129	6	22
1,2,4-Trimethylbenzene	ND	H	10.0	9.62		ug/L		96	65 - 127	0	18
sec-Butylbenzene	ND	H	10.0	9.93		ug/L		99	53 - 126	3	21
4-Isopropyltoluene	ND	H	10.0	9.88		ug/L		99	57 - 126	0	21
1,3-Dichlorobenzene	ND	H	10.0	10.7		ug/L		107	70 - 119	3	18
1,4-Dichlorobenzene	ND	H	10.0	10.2		ug/L		102	74 - 117	0	17
n-Butylbenzene	ND	H	10.0	9.18		ug/L		92	50 - 130	0	23
1,2-Dichlorobenzene	ND	H	10.0	10.3		ug/L		103	68 - 116	5	20
1,2-Dibromo-3-Chloropropane	ND	H	10.0	9.40		ug/L		94	10 - 170	11	35
1,2,4-Trichlorobenzene	ND	H	10.0	10.7		ug/L		107	15 - 169	1	35
Hexachlorobutadiene	ND	H	10.0	9.80		ug/L		98	28 - 153	9	35
Naphthalene	ND	H	10.0	10.6		ug/L		106	10 - 170	5	35
1,2,3-Trichlorobenzene	ND	H F2	10.0	16.6	F2	ug/L		166	10 - 170	44	35
1,3,5-Trimethylbenzene	ND	H	10.0	9.57		ug/L		96	59 - 127	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*53 - 124*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 151*
4-Bromofluorobenzene (Surr)	*96*		*49 - 118*
Dibromofluoromethane (Surr)	*106*		*60 - 132*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 580-422333/26-A
Matrix: Water
Analysis Batch: 422505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.10	mg/L		04/04/23 18:24	04/05/23 18:42	1
Calcium	ND		0.50	0.077	mg/L		04/04/23 18:24	04/05/23 18:42	1
Iron	ND		0.50	0.061	mg/L		04/04/23 18:24	04/05/23 18:42	1
Magnesium	ND		0.50	0.047	mg/L		04/04/23 18:24	04/05/23 18:42	1
Potassium	ND		3.3	0.17	mg/L		04/04/23 18:24	04/05/23 18:42	1
Sodium	ND		0.50	0.33	mg/L		04/04/23 18:24	04/05/23 18:42	1

Lab Sample ID: LCS 580-422333/27-A
Matrix: Water
Analysis Batch: 422505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	20.0	20.0		mg/L		100	85 - 115
Calcium	20.0	21.3		mg/L		107	85 - 115
Iron	20.0	21.2		mg/L		106	85 - 115
Magnesium	20.0	20.9		mg/L		105	85 - 115
Potassium	20.0	20.1		mg/L		101	85 - 115
Sodium	20.0	19.5		mg/L		98	85 - 115

Lab Sample ID: LCSD 580-422333/28-A
Matrix: Water
Analysis Batch: 422505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	20.0	19.9		mg/L		100	85 - 115	1	20
Calcium	20.0	20.7		mg/L		103	85 - 115	3	20
Iron	20.0	21.1		mg/L		106	85 - 115	0	20
Magnesium	20.0	20.4		mg/L		102	85 - 115	3	20
Potassium	20.0	20.1		mg/L		100	85 - 115	0	20
Sodium	20.0	19.5		mg/L		97	85 - 115	0	20

Lab Sample ID: 180-154079-34 MS
Matrix: Water
Analysis Batch: 422505

Client Sample ID: MW-23
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.34	J	20.0	20.8		mg/L		102	70 - 130
Calcium	24		20.0	44.4		mg/L		103	70 - 130
Iron	0.82		20.0	22.3		mg/L		107	70 - 130
Magnesium	13		20.0	33.4		mg/L		102	70 - 130
Potassium	1.0	J	20.0	21.7		mg/L		103	70 - 130
Sodium	14		20.0	33.7		mg/L		99	70 - 130

Lab Sample ID: 180-154079-34 MSD
Matrix: Water
Analysis Batch: 422505

Client Sample ID: MW-23
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.34	J	20.0	20.4		mg/L		100	70 - 130	2	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-154079-34 MSD — **Client Sample ID: MW-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 422505 — **Prep Batch: 422333**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	24		20.0	43.9		mg/L		101	70 - 130	1	20
Iron	0.82		20.0	21.9		mg/L		105	70 - 130	2	20
Magnesium	13		20.0	32.8		mg/L		100	70 - 130	2	20
Potassium	1.0	J	20.0	21.4		mg/L		102	70 - 130	1	20
Sodium	14		20.0	33.3		mg/L		98	70 - 130	1	20

Lab Sample ID: 180-154079-35 MS — **Client Sample ID: MW-24**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 422505 — **Prep Batch: 422333**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.79		20.0	21.3		mg/L		102	70 - 130
Calcium	25		20.0	45.5		mg/L		100	70 - 130
Iron	2.2		20.0	23.5		mg/L		107	70 - 130
Magnesium	15		20.0	34.6		mg/L		100	70 - 130
Potassium	1.2	J	20.0	21.7		mg/L		102	70 - 130
Sodium	18		20.0	37.2		mg/L		98	70 - 130

Lab Sample ID: 180-154079-35 MSD — **Client Sample ID: MW-24**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 422505 — **Prep Batch: 422333**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.79		20.0	21.8		mg/L		105	70 - 130	2	20
Calcium	25		20.0	45.7		mg/L		101	70 - 130	0	20
Iron	2.2		20.0	24.0		mg/L		109	70 - 130	2	20
Magnesium	15		20.0	34.7		mg/L		100	70 - 130	0	20
Potassium	1.2	J	20.0	22.2		mg/L		105	70 - 130	2	20
Sodium	18		20.0	38.4		mg/L		104	70 - 130	3	20

Lab Sample ID: 180-154079-35 DU — **Client Sample ID: MW-24**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 422505 — **Prep Batch: 422333**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	0.79		0.650		mg/L		20	20
Calcium	25		24.8		mg/L		3	20
Iron	2.2		2.04		mg/L		5	20
Magnesium	15		14.3		mg/L		3	20
Potassium	1.2	J	1.02	J	mg/L		15	20
Sodium	18		17.2		mg/L		2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-422333/26-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 422463 — **Prep Batch: 422333**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		04/04/23 18:24	04/05/23 14:01	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-422333/26-A
Matrix: Water
Analysis Batch: 422463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080	0.00013	mg/L		04/04/23 18:24	04/05/23 14:01	1
Barium	ND		0.0012	0.00021	mg/L		04/04/23 18:24	04/05/23 14:01	1
Beryllium	ND		0.00040	0.00011	mg/L		04/04/23 18:24	04/05/23 14:01	1
Cadmium	ND		0.00040	0.000037	mg/L		04/04/23 18:24	04/05/23 14:01	1
Chromium	ND		0.00080	0.00017	mg/L		04/04/23 18:24	04/05/23 14:01	1
Cobalt	ND		0.00040	0.000039	mg/L		04/04/23 18:24	04/05/23 14:01	1
Copper	ND		0.0020	0.00060	mg/L		04/04/23 18:24	04/05/23 14:01	1
Lead	ND		0.00040	0.000040	mg/L		04/04/23 18:24	04/05/23 14:01	1
Manganese	ND		0.0020	0.00046	mg/L		04/04/23 18:24	04/05/23 14:01	1
Nickel	ND		0.0030	0.00013	mg/L		04/04/23 18:24	04/05/23 14:01	1
Selenium	ND		0.0080	0.0021	mg/L		04/04/23 18:24	04/05/23 14:01	1
Silver	ND		0.00040	0.000025	mg/L		04/04/23 18:24	04/05/23 14:01	1
Thallium	ND		0.0010	0.000029	mg/L		04/04/23 18:24	04/05/23 14:01	1
Vanadium	ND		0.0040	0.00046	mg/L		04/04/23 18:24	04/05/23 14:01	1
Zinc	ND		0.0070	0.00093	mg/L		04/04/23 18:24	04/05/23 14:01	1

Lab Sample ID: LCS 580-422333/27-A
Matrix: Water
Analysis Batch: 422463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.06		mg/L		106	85 - 115
Antimony	1.00	0.989		mg/L		99	85 - 115
Barium	1.00	1.02		mg/L		102	85 - 115
Beryllium	1.00	1.08		mg/L		108	85 - 115
Cadmium	1.00	1.03		mg/L		103	85 - 115
Chromium	1.00	1.07		mg/L		107	85 - 115
Cobalt	1.00	1.08		mg/L		108	85 - 115
Copper	1.00	1.10		mg/L		110	85 - 115
Lead	1.00	1.04		mg/L		104	85 - 115
Manganese	1.00	1.06		mg/L		106	85 - 115
Nickel	1.00	1.07		mg/L		107	85 - 115
Selenium	1.00	0.961		mg/L		96	85 - 115
Silver	1.00	1.04		mg/L		104	85 - 115
Thallium	1.00	1.07		mg/L		107	85 - 115
Vanadium	1.00	1.05		mg/L		105	85 - 115
Zinc	1.00	1.08		mg/L		108	85 - 115

Lab Sample ID: LCSD 580-422333/28-A
Matrix: Water
Analysis Batch: 422463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	1.06		mg/L		106	85 - 115	0	20
Antimony	1.00	1.00		mg/L		100	85 - 115	1	20
Barium	1.00	1.03		mg/L		103	85 - 115	1	20
Beryllium	1.00	1.08		mg/L		108	85 - 115	1	20
Cadmium	1.00	1.05		mg/L		105	85 - 115	1	20
Chromium	1.00	1.07		mg/L		107	85 - 115	0	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-422333/28-A
Matrix: Water
Analysis Batch: 422463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 422333

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt			1.00	1.08		mg/L		108	85 - 115	0	20
Copper			1.00	1.10		mg/L		110	85 - 115	0	20
Lead			1.00	1.03		mg/L		103	85 - 115	1	20
Manganese			1.00	1.05		mg/L		105	85 - 115	0	20
Nickel			1.00	1.07		mg/L		107	85 - 115	0	20
Selenium			1.00	1.01		mg/L		101	85 - 115	5	20
Silver			1.00	1.05		mg/L		105	85 - 115	1	20
Thallium			1.00	1.04		mg/L		104	85 - 115	3	20
Vanadium			1.00	1.05		mg/L		105	85 - 115	0	20
Zinc			1.00	1.07		mg/L		107	85 - 115	1	20

Lab Sample ID: 180-154079-34 MS
Matrix: Water
Analysis Batch: 422463

Client Sample ID: MW-23
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0013		1.00	1.06		mg/L		106	70 - 130
Antimony	ND		1.00	1.02		mg/L		102	70 - 130
Barium	0.0058		1.00	1.05		mg/L		105	70 - 130
Beryllium	ND		1.00	1.11		mg/L		111	70 - 130
Cadmium	ND		1.00	1.06		mg/L		106	70 - 130
Chromium	0.0014		1.00	1.09		mg/L		109	70 - 130
Cobalt	0.0010		1.00	1.08		mg/L		108	70 - 130
Copper	0.00073	J	1.00	1.10		mg/L		110	70 - 130
Lead	0.00022	J	1.00	1.05		mg/L		105	70 - 130
Manganese	0.019		1.00	1.10		mg/L		108	70 - 130
Nickel	0.00086	J	1.00	1.07		mg/L		107	70 - 130
Selenium	ND		1.00	1.05		mg/L		105	70 - 130
Silver	ND		1.00	1.07		mg/L		107	70 - 130
Thallium	ND		1.00	1.09		mg/L		109	70 - 130
Vanadium	0.012		1.00	1.09		mg/L		108	70 - 130
Zinc	0.0030	J	1.00	1.08		mg/L		108	70 - 130

Lab Sample ID: 180-154079-34 MSD
Matrix: Water
Analysis Batch: 422463

Client Sample ID: MW-23
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0013		1.00	1.08		mg/L		108	70 - 130	2	20
Antimony	ND		1.00	1.03		mg/L		103	70 - 130	0	20
Barium	0.0058		1.00	1.05		mg/L		105	70 - 130	0	20
Beryllium	ND		1.00	1.07		mg/L		107	70 - 130	4	20
Cadmium	ND		1.00	1.07		mg/L		107	70 - 130	0	20
Chromium	0.0014		1.00	1.08		mg/L		108	70 - 130	1	20
Cobalt	0.0010		1.00	1.09		mg/L		109	70 - 130	1	20
Copper	0.00073	J	1.00	1.11		mg/L		111	70 - 130	1	20
Lead	0.00022	J	1.00	1.05		mg/L		105	70 - 130	1	20
Manganese	0.019		1.00	1.10		mg/L		108	70 - 130	0	20
Nickel	0.00086	J	1.00	1.08		mg/L		108	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-154079-34 MSD
Matrix: Water
Analysis Batch: 422463

Client Sample ID: MW-23
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	ND		1.00	1.07		mg/L		107	70 - 130	2	20
Silver	ND		1.00	1.07		mg/L		107	70 - 130	0	20
Thallium	ND		1.00	1.03		mg/L		103	70 - 130	6	20
Vanadium	0.012		1.00	1.07		mg/L		106	70 - 130	2	20
Zinc	0.0030	J	1.00	1.08		mg/L		108	70 - 130	0	20

Lab Sample ID: 180-154079-35 MS
Matrix: Water
Analysis Batch: 422463

Client Sample ID: MW-24
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0016		1.00	1.08		mg/L		108	70 - 130
Antimony	ND		1.00	1.02		mg/L		102	70 - 130
Barium	0.0098		1.00	1.06		mg/L		105	70 - 130
Beryllium	ND		1.00	1.10		mg/L		110	70 - 130
Cadmium	ND		1.00	1.07		mg/L		107	70 - 130
Chromium	0.0018		1.00	1.07		mg/L		107	70 - 130
Cobalt	0.0013		1.00	1.09		mg/L		109	70 - 130
Copper	0.0035		1.00	1.12		mg/L		111	70 - 130
Lead	0.00035	J	1.00	1.06		mg/L		106	70 - 130
Manganese	0.12		1.00	1.10		mg/L		97	70 - 130
Nickel	0.0011	J	1.00	1.08		mg/L		108	70 - 130
Selenium	ND		1.00	1.03		mg/L		103	70 - 130
Silver	ND		1.00	1.07		mg/L		107	70 - 130
Thallium	ND		1.00	1.08		mg/L		108	70 - 130
Vanadium	0.016		1.00	1.07		mg/L		105	70 - 130
Zinc	0.0030	J	1.00	1.10		mg/L		110	70 - 130

Lab Sample ID: 180-154079-35 MSD
Matrix: Water
Analysis Batch: 422463

Client Sample ID: MW-24
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0016		1.00	1.09		mg/L		109	70 - 130	1	20
Antimony	ND		1.00	1.05		mg/L		105	70 - 130	2	20
Barium	0.0098		1.00	1.08		mg/L		107	70 - 130	1	20
Beryllium	ND		1.00	1.12		mg/L		112	70 - 130	2	20
Cadmium	ND		1.00	1.09		mg/L		109	70 - 130	1	20
Chromium	0.0018		1.00	1.10		mg/L		110	70 - 130	3	20
Cobalt	0.0013		1.00	1.10		mg/L		110	70 - 130	1	20
Copper	0.0035		1.00	1.13		mg/L		113	70 - 130	1	20
Lead	0.00035	J	1.00	1.08		mg/L		108	70 - 130	2	20
Manganese	0.12		1.00	1.13		mg/L		100	70 - 130	3	20
Nickel	0.0011	J	1.00	1.10		mg/L		110	70 - 130	2	20
Selenium	ND		1.00	1.03		mg/L		103	70 - 130	0	20
Silver	ND		1.00	1.10		mg/L		110	70 - 130	3	20
Thallium	ND		1.00	1.10		mg/L		110	70 - 130	2	20
Vanadium	0.016		1.00	1.10		mg/L		108	70 - 130	3	20
Zinc	0.0030	J	1.00	1.11		mg/L		111	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-154079-35 DU
Matrix: Water
Analysis Batch: 422463

Client Sample ID: MW-24
Prep Type: Total/NA
Prep Batch: 422333

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0016		0.00167		mg/L		2	20
Antimony	ND		ND		mg/L		NC	20
Barium	0.0098		0.00918		mg/L		7	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0018		0.00167		mg/L		6	20
Cobalt	0.0013		0.00122		mg/L		6	20
Copper	0.0035		0.00125	J F3	mg/L		94	20
Lead	0.00035	J	0.000325	J	mg/L		6	20
Manganese	0.12		0.0279	F3	mg/L		125	20
Nickel	0.0011	J	0.00107	J	mg/L		6	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.016		0.0151		mg/L		5	20
Zinc	0.0030	J	0.00235	J F5	mg/L		23	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 580-421990/14-A
Matrix: Water
Analysis Batch: 422056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		03/31/23 11:29	03/31/23 16:49	1

Lab Sample ID: LCS 580-421990/15-A
Matrix: Water
Analysis Batch: 422056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00220		mg/L		110	85 - 115

Lab Sample ID: LCSD 580-421990/16-A
Matrix: Water
Analysis Batch: 422056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 421990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.00213		mg/L		106	85 - 115	3	20

Lab Sample ID: MB 580-422176/26-A
Matrix: Water
Analysis Batch: 422344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		04/03/23 15:51	04/04/23 15:46	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 580-422176/27-A
Matrix: Water
Analysis Batch: 422344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422176

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00200	0.00209		mg/L		105	85 - 115		

Lab Sample ID: LCSD 580-422176/28-A
Matrix: Water
Analysis Batch: 422344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 422176

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00200	0.00202		mg/L		101	85 - 115	4	20

GC/MS VOA

Analysis Batch: 360825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-6	MW-4	Total/NA	Water	8260D	
180-154079-7	MW-5	Total/NA	Water	8260D	
180-154079-8	MW-6	Total/NA	Water	8260D	
MB 410-360825/5	Method Blank	Total/NA	Water	8260D	
LCS 410-360825/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 360836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-9	MW-7	Total/NA	Water	8260D	
MB 410-360836/5	Method Blank	Total/NA	Water	8260D	
LCS 410-360836/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 360918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-10	MW-8	Total/NA	Water	8260D	
180-154079-14	MW-13	Total/NA	Water	8260D	
180-154079-17	MW-28	Total/NA	Water	8260D	
180-154079-18	MW-29	Total/NA	Water	8260D	
180-154079-19	MW-30	Total/NA	Water	8260D	
180-154079-20	MW-31	Total/NA	Water	8260D	
180-154079-28	MW-16	Total/NA	Water	8260D	
180-154079-30	MW-18	Total/NA	Water	8260D	
MB 410-360918/6	Method Blank	Total/NA	Water	8260D	
LCS 410-360918/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-360918/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 361347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-11	MW-9	Total/NA	Water	8260D	
180-154079-12	MW-10	Total/NA	Water	8260D	
180-154079-13	MW-11	Total/NA	Water	8260D	
180-154079-21	MW-100	Total/NA	Water	8260D	
180-154079-22	MW-101	Total/NA	Water	8260D	
180-154079-23	MW-102	Total/NA	Water	8260D	
MB 410-361347/7	Method Blank	Total/NA	Water	8260D	
LCS 410-361347/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 361348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-24	MW-103	Total/NA	Water	8260D	
180-154079-26	DUP-2	Total/NA	Water	8260D	
180-154079-31	MW-19	Total/NA	Water	8260D	
180-154079-32	MW-20	Total/NA	Water	8260D	
180-154079-34	MW-23	Total/NA	Water	8260D	
180-154079-35	MW-24	Total/NA	Water	8260D	
MB 410-361348/6	Method Blank	Total/NA	Water	8260D	
LCS 410-361348/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 362279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-32 - DL	MW-20	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 362279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-362279/6	Method Blank	Total/NA	Water	8260D	
LCS 410-362279/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 362909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-33	MW-22	Total/NA	Water	8260D	
180-154079-36	MW-25	Total/NA	Water	8260D	
MB 410-362909/6	Method Blank	Total/NA	Water	8260D	
LCS 410-362909/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 363893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-26 - DL	DUP-2	Total/NA	Water	8260D	
MB 410-363893/6	Method Blank	Total/NA	Water	8260D	
LCS 410-363893/4	Lab Control Sample	Total/NA	Water	8260D	
MRL 410-363893/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 431682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-5	MW-3	Total/NA	Water	EPA 8260D	
180-154079-15	MW-14	Total/NA	Water	EPA 8260D	
180-154079-16	MW-27	Total/NA	Water	EPA 8260D	
180-154079-25	DUP-1	Total/NA	Water	EPA 8260D	
180-154079-27	MW-15	Total/NA	Water	EPA 8260D	
180-154079-29	MW-17	Total/NA	Water	EPA 8260D	
180-154079-37	MW-26	Total/NA	Water	EPA 8260D	
MB 180-431682/9	Method Blank	Total/NA	Water	EPA 8260D	
LCS 180-431682/6	Lab Control Sample	Total/NA	Water	EPA 8260D	
180-154079-37 MS	MW-26	Total/NA	Water	EPA 8260D	
180-154079-37 MSD	MW-26	Total/NA	Water	EPA 8260D	

Metals

Prep Batch: 421990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-5	MW-3	Total/NA	Water	245.1	
180-154079-6	MW-4	Total/NA	Water	245.1	
MB 580-421990/14-A	Method Blank	Total/NA	Water	245.1	
LCS 580-421990/15-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 580-421990/16-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 422056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-421990/14-A	Method Blank	Total/NA	Water	245.1	421990
LCS 580-421990/15-A	Lab Control Sample	Total/NA	Water	245.1	421990
LCSD 580-421990/16-A	Lab Control Sample Dup	Total/NA	Water	245.1	421990

Prep Batch: 422176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-8	MW-6	Total/NA	Water	245.1	
180-154079-14	MW-13	Total/NA	Water	245.1	

Metals (Continued)

Prep Batch: 422176 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-15	MW-14	Total/NA	Water	245.1	
180-154079-25	DUP-1	Total/NA	Water	245.1	
180-154079-26	DUP-2	Total/NA	Water	245.1	
180-154079-27	MW-15	Total/NA	Water	245.1	
180-154079-28	MW-16	Total/NA	Water	245.1	
180-154079-29	MW-17	Total/NA	Water	245.1	
180-154079-30	MW-18	Total/NA	Water	245.1	
180-154079-31	MW-19	Total/NA	Water	245.1	
180-154079-32	MW-20	Total/NA	Water	245.1	
180-154079-33	MW-22	Total/NA	Water	245.1	
180-154079-34	MW-23	Total/NA	Water	245.1	
180-154079-35	MW-24	Total/NA	Water	245.1	
MB 580-422176/26-A	Method Blank	Total/NA	Water	245.1	
LCS 580-422176/27-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 580-422176/28-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Prep Batch: 422333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-5	MW-3	Total/NA	Water	200.8	
180-154079-6	MW-4	Total/NA	Water	200.8	
180-154079-8	MW-6	Total/NA	Water	200.8	
180-154079-14	MW-13	Total/NA	Water	200.8	
180-154079-15	MW-14	Total/NA	Water	200.8	
180-154079-25	DUP-1	Total/NA	Water	200.8	
180-154079-26	DUP-2	Total/NA	Water	200.8	
180-154079-27	MW-15	Total/NA	Water	200.8	
180-154079-28	MW-16	Total/NA	Water	200.8	
180-154079-29	MW-17	Total/NA	Water	200.8	
180-154079-30	MW-18	Total/NA	Water	200.8	
180-154079-31	MW-19	Total/NA	Water	200.8	
180-154079-32	MW-20	Total/NA	Water	200.8	
180-154079-33	MW-22	Total/NA	Water	200.8	
180-154079-34	MW-23	Total/NA	Water	200.8	
180-154079-35	MW-24	Total/NA	Water	200.8	
MB 580-422333/26-A	Method Blank	Total/NA	Water	200.8	
LCS 580-422333/27-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 580-422333/28-A	Lab Control Sample Dup	Total/NA	Water	200.8	
180-154079-34 MS	MW-23	Total/NA	Water	200.8	
180-154079-34 MSD	MW-23	Total/NA	Water	200.8	
180-154079-35 MS	MW-24	Total/NA	Water	200.8	
180-154079-35 MSD	MW-24	Total/NA	Water	200.8	
180-154079-35 DU	MW-24	Total/NA	Water	200.8	

Analysis Batch: 422344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-5	MW-3	Total/NA	Water	245.1	421990
180-154079-6	MW-4	Total/NA	Water	245.1	421990
180-154079-8	MW-6	Total/NA	Water	245.1	422176
180-154079-14	MW-13	Total/NA	Water	245.1	422176
180-154079-15	MW-14	Total/NA	Water	245.1	422176
180-154079-25	DUP-1	Total/NA	Water	245.1	422176

Metals (Continued)

Analysis Batch: 422344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-26	DUP-2	Total/NA	Water	245.1	422176
180-154079-27	MW-15	Total/NA	Water	245.1	422176
180-154079-28	MW-16	Total/NA	Water	245.1	422176
180-154079-29	MW-17	Total/NA	Water	245.1	422176
180-154079-30	MW-18	Total/NA	Water	245.1	422176
180-154079-31	MW-19	Total/NA	Water	245.1	422176
180-154079-32	MW-20	Total/NA	Water	245.1	422176
180-154079-33	MW-22	Total/NA	Water	245.1	422176
180-154079-34	MW-23	Total/NA	Water	245.1	422176
180-154079-35	MW-24	Total/NA	Water	245.1	422176
MB 580-422176/26-A	Method Blank	Total/NA	Water	245.1	422176
LCS 580-422176/27-A	Lab Control Sample	Total/NA	Water	245.1	422176
LCSD 580-422176/28-A	Lab Control Sample Dup	Total/NA	Water	245.1	422176

Analysis Batch: 422463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-5	MW-3	Total/NA	Water	200.8	422333
180-154079-6	MW-4	Total/NA	Water	200.8	422333
180-154079-8	MW-6	Total/NA	Water	200.8	422333
180-154079-14	MW-13	Total/NA	Water	200.8	422333
180-154079-15	MW-14	Total/NA	Water	200.8	422333
180-154079-25	DUP-1	Total/NA	Water	200.8	422333
180-154079-26	DUP-2	Total/NA	Water	200.8	422333
180-154079-27	MW-15	Total/NA	Water	200.8	422333
180-154079-28	MW-16	Total/NA	Water	200.8	422333
180-154079-29	MW-17	Total/NA	Water	200.8	422333
180-154079-30	MW-18	Total/NA	Water	200.8	422333
180-154079-31	MW-19	Total/NA	Water	200.8	422333
180-154079-32	MW-20	Total/NA	Water	200.8	422333
180-154079-33	MW-22	Total/NA	Water	200.8	422333
180-154079-34	MW-23	Total/NA	Water	200.8	422333
180-154079-35	MW-24	Total/NA	Water	200.8	422333
MB 580-422333/26-A	Method Blank	Total/NA	Water	200.8	422333
LCS 580-422333/27-A	Lab Control Sample	Total/NA	Water	200.8	422333
LCSD 580-422333/28-A	Lab Control Sample Dup	Total/NA	Water	200.8	422333
180-154079-34 MS	MW-23	Total/NA	Water	200.8	422333
180-154079-34 MSD	MW-23	Total/NA	Water	200.8	422333
180-154079-35 MS	MW-24	Total/NA	Water	200.8	422333
180-154079-35 MSD	MW-24	Total/NA	Water	200.8	422333
180-154079-35 DU	MW-24	Total/NA	Water	200.8	422333

Analysis Batch: 422505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-5	MW-3	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-6	MW-4	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-8	MW-6	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-14	MW-13	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-15	MW-14	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-25	DUP-1	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-26	DUP-2	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-27	MW-15	Total/NA	Water	200.7 Rev 4.4	422333

Metals (Continued)

Analysis Batch: 422505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-154079-28	MW-16	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-29	MW-17	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-30	MW-18	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-31	MW-19	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-32	MW-20	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-33	MW-22	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-34	MW-23	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-35	MW-24	Total/NA	Water	200.7 Rev 4.4	422333
MB 580-422333/26-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	422333
LCS 580-422333/27-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	422333
LCSD 580-422333/28-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-34 MS	MW-23	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-34 MSD	MW-23	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-35 MS	MW-24	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-35 MSD	MW-24	Total/NA	Water	200.7 Rev 4.4	422333
180-154079-35 DU	MW-24	Total/NA	Water	200.7 Rev 4.4	422333

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax 412-963-2468

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-89289-15040.2
Client Contact: Jason Somes	Phone: (541) 962-6576	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin:	Page: Page 1 of 3
Company: WE2 Support Services	PWSID:			Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SOS30042			
Email: Jason.Somes@NETL.DOE GOV	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18025223			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Standard List Volatile Organics	Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A			
MW3	3/20/23	1453	G	W			X	X	4	
MW4	3/21/23	1433						X	4	
MW5		1830							3	
MW6		1725						X	4	
MW7		1042							3	
MW8		1321							3	
MW9	3/22/23	1030							3	
MW10		1355							3	
MW11		1450							3	
MW13	3/21/23	1217						X	4	
MW14	3/20/23	1312						X	4	

180-154079 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
1	[signature]	3/23/23 1255	Whiteshield	[signature]	3/23/23 1255	EETN
2	[signature]	3/23/23 1530	EETN	[signature]	3/24/23 10:30	EDTINE
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3

Ver: 06/08/2021

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone 412-963-7058 Fax. 412-963-2468

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-89289-15040 3
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin:	Page: Page 2 of 4 — 2 of 3
Company: WE2 Support Services	PWSID:	Analysis Requested		Job #:

Address: 1450 Queen Avenue SW	Due Date Requested:
City: Albany	TAT Requested (days):
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No
Phone	PO #: SOS30042
Email: Jason.Somes@NETL.DOE.GOV	WO #
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18025223
Site	SSOW#:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-15	3/20/23	1608	G	W			X	4	
MW-16	3/21/23	1010					X	4	
MW-17	3/20/23	1642					X	4	
MW-18	3/21/23	1123					X	4	
MW-19	3/22/23	1110					X	4	
MW-20	3/22/23	1321					X	4	
MW-22	3/21/23	1600					X	4	
MW-23	3/22/23	1210					X	4	
MW-24	3/22/23	1510					X	4	
MW-25	3/21/23	1256						3	
MW-26	3/20/23	1405						3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	3/23/23 1255	Whitefield		3/23/23 1255	CETN
Relinquished by:	3/23/23 1530	CETN		3/24/23 10:30	EPTING
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.7

Ver: 06/08/2021

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-89289-15040.4
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin:	Page: Page 3 of 3
Company: WE2 Support Services	PWSID:			Job #:

Address: 1450 Queen Avenue SW	Due Date Requested:
City: Albany	TAT Requested (days):
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No
Phone:	PO #: SOS30042
Email: Jason.Somes@NETL.DOE.GOV	WO #:
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18025223
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-27	3/20/23	1543	G	W			X	3	
MW-28	3/21/23	1146						3	
MW-29	3/21/23	1459						3	
MW-30		1658						3	
MW-31		1803						3	
MW-100	3/22/23	1645						3	
MW-101		1617						3	
MW-102		1715						3	
MW-103		[redacted]						3	
Dup 1	3/20/23	[redacted]					X	4	
Dup 2	3/22/23	[redacted]					X	4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 3/23/23 1255	Company: Whiteshield	Received by:	Date/Time: 3/23/23 1255	Company: EETN
Relinquished by:	Date/Time: 3/23/23 1530	Company: EETN	Received by:	Date/Time: 3/24/23 16:30	Company: EPITAE
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.3

Ver: 06/08/2021

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone. 412-963-7058 Fax 412-963-2468

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No.: 180-89289-15040.1
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin:	Page: Page 4 of 4
Company: WE2 Support Services	PWSID	Analysis Requested		Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Albany	TAT Requested (days):			
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone	PO #: SOS30042			Other:
Email: Jason.Somes@NETL.DOE GOV	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18025223			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Standard List Vplatile Organics	8260D	7470A	TCLP 8270	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N		
Purge Water	3/23/23	1016	G	W				X	X	X		
Trip Blank	—	—	G	W								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

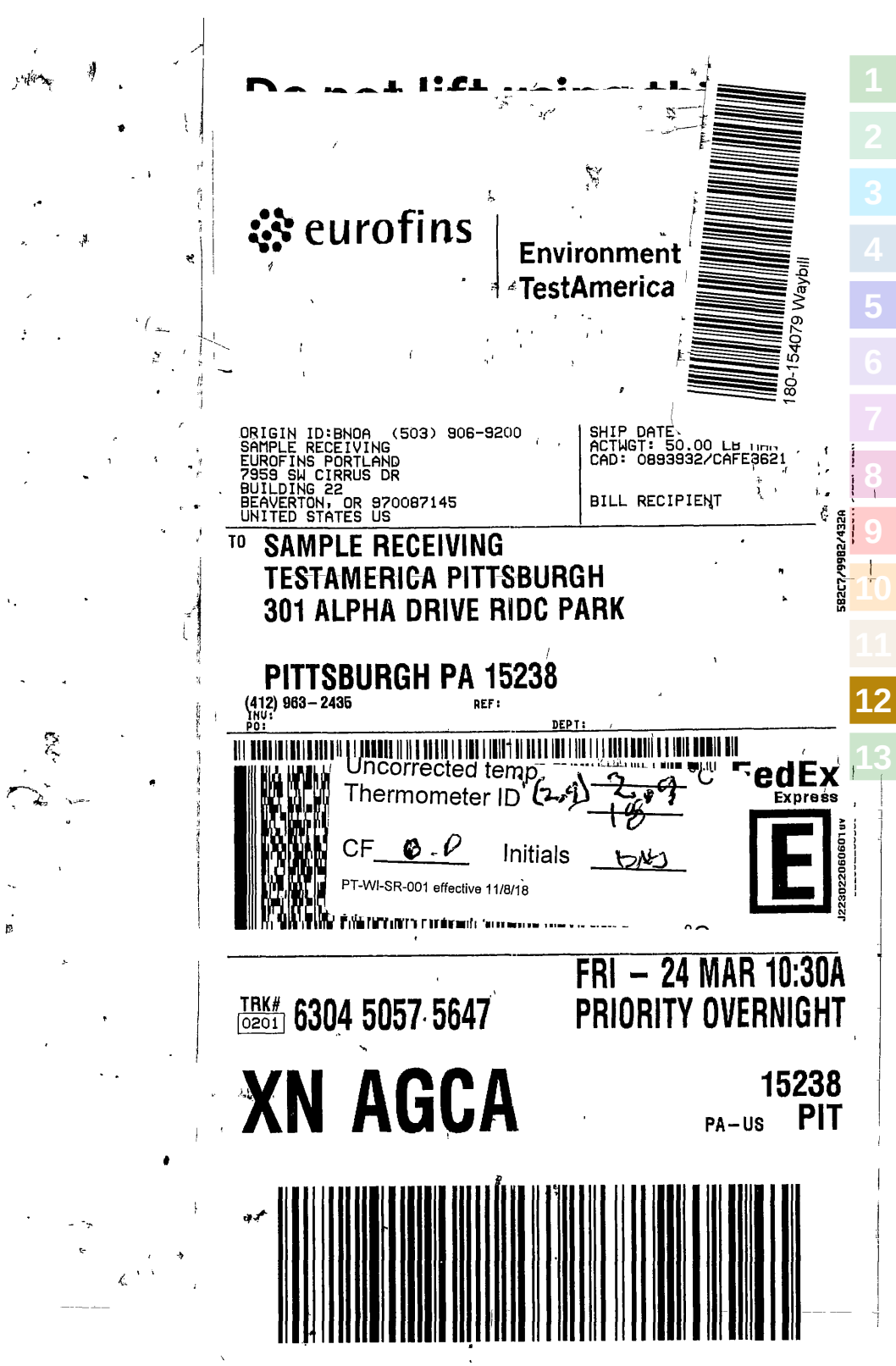
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 3/23/23 1255	Company: Whiteshield	Received by:	Date/Time: 3/23/23 1255	Company: EGTN		
Relinquished by:	Date/Time: 3/23/23 1570	Company: EGTN	Received by:	Date/Time: 3/24/23 10:30	Company: EDITS		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.1				

Ver: 06/08/2021


Do not lift using this

eurofins | Environment TestAmerica

180-154079 Waybill

ORIGIN ID:BNOA (503) 906-9200
SAMPLE RECEIVING
EUROFINS PORTLAND
7959 SW CIRRUS DR
BUILDING 22
BEAVERTON, OR 970087145
UNITED STATES US

SHIP DATE:
ACTWGT: 50.00 LB
CAD: 0893932/CAFE3621

BILL RECIPIENT

582C7/9982/4328

TO SAMPLE RECEIVING
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-2435

REF:
INV:
PO:
DEPT:

Uncorrected temp 2.9 °C
Thermometer ID (2.9) 2.9 18
CF 0.0 Initials BNJ
PT-WI-SR-001 effective 11/8/18

FedEx Express

J223022060601uu

TRK# 0201 6304 5057 5647

FRI - 24 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
Pittsburgh Pa 15238

phone 412.963.7058 fax 412.963.2468

Chain of Custody R



180-154079 Chain of Custody

eurofins | Environment Testing America

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

s, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company name:	Email:	Lab Contact:	Carrier:	____ of ____ COCs
Address	Tel/Fax:			TALS Project #:
City/State/Zip	Analysis Turnaround Time			Sampler:
	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
	TAT if different from Below ____			Walk-in Client:
Project Name: EPHE 301 Alpha Drive	☐ 2 weeks			Lab Sampling:
Site:	☐ 1 week			Job / SDG No.:
P O #	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
154079								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.5-4.1 0.5-4.0 DT4201 &

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: IR6iWS
Relinquished by:	Company: EPHE	Date/Time: 4/4/23 1630	Received by: Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Company: EET Date/Time: 4/4/23 2035

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-117419.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin: Oregon	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): NELAP - Oregon		Job #: 180-154079-1
Address: 5755 8th Street East, ,	Due Date Requested: 4/6/2023			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18025223			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7_CWA/200.7_P_TOT Total Metals (Al,Ca,Fe,Mg,K,Na)	200.8_CWA/200.8_P_TOT Total Metals (Sb,As,Ba,Be,Cd,Cr,Co,Cu,...)	245.1/245.1_Prep Mercury (CVAA)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-3 (180-154079-5)	3/20/23	14:53 Pacific		Water			X	X	X	1	
MW-4 (180-154079-6)	3/21/23	14:33 Pacific		Water			X	X	X	1	
MW-6 (180-154079-8)	3/21/23	17:25 Pacific		Water			X	X	X	1	
MW-13 (180-154079-14)	3/21/23	12:17 Pacific		Water			X	X	X	1	
MW-14 (180-154079-15)	3/20/23	13:12 Pacific		Water			X	X	X	1	
DUP-1 (180-154079-25)	3/20/23	14:56 Pacific		Water			X	X	X	1	
DUP-2 (180-154079-26)	3/22/23	13:25 Pacific		Water			X	X	X	1	
MW-15 (180-154079-27)	3/20/23	16:08 Pacific		Water			X	X	X	1	
MW-16 (180-154079-28)	3/21/23	10:10 Pacific		Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/24/23 1700	EETN		3/25/23 0915	EETSea
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-117419.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin: Oregon	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): NELAP - Oregon		Job #: 180-154079-1
Address: 5755 8th Street East, ,	Due Date Requested: 4/6/2023			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18025223			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7_CWA/200.7_P_TOT Total Metals (Al,Ca,Fe,Mg,K,Na)	200.8_CWA/200.8_P_TOT Total Metals (Sb,As,Ba,Be,Cd,Cr,Co,Cu,...	245.1/245.1_Prep Mercury (CVAA)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-17 (180-154079-29)	3/20/23	16:42 Pacific		Water			X	X	X	1	
MW-18 (180-154079-30)	3/21/23	11:23 Pacific		Water			X	X	X	1	
MW-19 (180-154079-31)	3/22/23	11:10 Pacific		Water			X	X	X	1	
MW-20 (180-154079-32)	3/22/23	13:21 Pacific		Water			X	X	X	1	
MW-22 (180-154079-33)	3/21/23	16:00 Pacific		Water			X	X	X	1	
MW-23 (180-154079-34)	3/22/23	12:10 Pacific		Water			X	X	X	1	
MW-24 (180-154079-35)	3/22/23	15:10 Pacific		Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/24/23 1700	EETN		3/25/23 0945	EETK
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: WE2 Support Services

Job Number: 180-154079-1

Login Number: 154079
List Number: 1
Creator: Colussy, Jill L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: WE2 Support Services

Job Number: 180-154079-1

Login Number: 154079
List Number: 3
Creator: Metzger, Katherine A

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/04/23 09:55 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers

Login Sample Receipt Checklist

Client: WE2 Support Services

Job Number: 180-154079-1

Login Number: 154079
List Number: 2
Creator: Prigge, Madison

List Source: Eurofins Seattle
List Creation: 03/27/23 09:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9 0.3/0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C. Groundwater Analytical Results - Volatile Organics

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
MW-3	MW-3	03/20/2023	3.9 U H	2.5 U H	3.0 U H	2.4 U H	1.8 U H	2.9 U H	1.7 U H	3.5 U H	2.8 U H	3.7 U H
MW-4	MW-4	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-5	MW-5	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-6	MW-6	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-7	MW-7	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-8	MW-8	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-9	MW-9	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-10	MW-10	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-11	MW-11	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-13	MW-13	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-14	MW-14	03/20/2023	3.9 U H	2.5 U H	3.0 U H	2.4 U H	1.8 U H	2.9 U H	1.7 U H	3.5 U H	2.8 U H	3.7 U H
MW-15	MW-15	03/20/2023	3.9 U H	2.5 U H	3.0 U H	2.4 U H	1.8 U H	2.9 U H	1.7 U H	3.5 U H	2.8 U H	3.7 U H
MW-16	MW-16	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-17	MW-17	03/20/2023	3.9 U H	2.5 U H	3.0 U H	2.4 U H	1.8 U H	2.9 U H	1.7 U H	3.5 U H	2.8 U H	3.7 U H
MW-18	MW-18	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-19	MW-19	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-20	MW-20	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-22	MW-22	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-23	MW-23	03/22/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-24	MW-24	03/22/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-25	MW-25	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-26	MW-26	03/20/2023	3.9 U H	2.5 U H	3.0 U H	2.4 U H	1.8 U H	2.9 U H	1.7 U H	3.5 U H F2	2.8 U H	3.7 U H
MW-27	MW-27	03/20/2023	3.9 U H	2.5 U H	3.0 U H	2.4 U H	1.8 U H	2.9 U H	1.7 U H	3.5 U H	2.8 U H	3.7 U H
MW-28	MW-28	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-29	MW-29	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-30	MW-30	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-31	MW-31	03/21/2023	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.40 U H	0.30 U H	0.30 U H
MW-100	MW-100	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-101	MW-101	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-102	MW-102	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-103	MW-103	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U
MW-3 DUP1	DUP1	03/20/2023	3.9 U H	2.5 U H	3.0 U H	2.4 U H	1.8 U H	2.9 U H	1.7 U H	3.5 U H	2.8 U H	3.7 U H
MW-20 DUP2	DUP2	03/22/2023	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.30 U	0.30 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value.
J = Result is less than the RL but greater than or equal to the MDL and the
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*!= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromoform	Bromomethane	Carbon tetrachloride
MW-3	MW-3	03/20/2023	1.3 U H	3.1 U H	2.0 U H	1.5 U H	2.5 U H	1.7 U H	1.6 U H	2.6 U H	1.0 U H	2.5 U H	1.9 U H	1.8 U H	2.2 U H	2.0 U H	1.6 U H	2.6 U H	4.5 U H	3.3 U H
MW-4	MW-4	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-5	MW-5	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-6	MW-6	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-7	MW-7	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-8	MW-8	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-9	MW-9	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-10	MW-10	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-11	MW-11	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-13	MW-13	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-14	MW-14	03/20/2023	1.3 U H	3.1 U H	2.0 U H	1.5 U H	2.5 U H	1.7 U H	1.6 U H	2.6 U H	1.0 U H	2.5 U H	1.9 U H	1.8 U H	2.2 U H	2.0 U H	1.6 U H	2.6 U H	4.5 U H	3.3 U H
MW-15	MW-15	03/20/2023	1.3 U H	3.1 U H	2.0 U H	1.5 U H	2.5 U H	1.7 U H	1.6 U H	2.6 U H	1.0 U H	2.5 U H	1.9 U H	1.8 U H	2.2 U H	2.0 U H	1.6 U H	2.6 U H	4.5 U H	3.3 U H
MW-16	MW-16	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-17	MW-17	03/20/2023	1.3 U H	3.1 U H	2.0 U H	1.5 U H	2.5 U H	1.7 U H	1.6 U H	2.6 U H	1.0 U H	2.5 U H	1.9 U H	1.8 U H	2.2 U H	2.0 U H	1.6 U H	2.6 U H	4.5 U H	3.3 U H
MW-18	MW-18	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	**24 H**
MW-19	MW-19	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-20	MW-20	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	**840 H**
MW-22	MW-22	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	**7.0 H**
MW-23	MW-23	03/22/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	**1.1 H**
MW-24	MW-24	03/22/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	**160 H**
MW-25	MW-25	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-26	MW-26	03/20/2023	1.3 U H	3.1 U H	2.0 U H	1.5 U H	2.5 U H	1.7 U H	1.6 U H	2.6 U H	1.0 U H	2.5 U H	1.9 U H	1.8 U H	2.2 U H	2.0 U H	1.6 U H	2.6 U H	4.5 U H	3.3 U H
MW-27	MW-27	03/20/2023	1.3 U H	3.1 U H	2.0 U H	1.5 U H	2.5 U H	1.7 U H	1.6 U H	2.6 U H	1.0 U H	2.5 U H	1.9 U H	1.8 U H	2.2 U H	2.0 U H	1.6 U H	2.6 U H	4.5 U H	**49 H**
MW-28	MW-28	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-29	MW-29	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-30	MW-30	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-31	MW-31	03/21/2023	1.0 U H	0.30 U H	0.20 U H	0.30 U H	0.30 U H	0.30 U H	0.68 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	1.0 U H	0.30 U H	0.30 U H
MW-100	MW-100	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-101	MW-101	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-102	MW-102	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-103	MW-103	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	0.30 U
MW-3 DUP1	DUP1	03/20/2023	1.3 U H	3.1 U H	2.0 U H	1.5 U H	2.5 U H	1.7 U H	1.6 U H	2.6 U H	1.0 U H	2.5 U H	1.9 U H	1.8 U H	2.2 U H	2.0 U H	1.6 U H	2.6 U H	4.5 U H	3.3 U H
MW-20 DUP2	DUP2	03/22/2023	1.0 U	0.30 U	0.20 U	0.30 U	0.30 U	0.30 U	0.68 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.0 U	0.30 U	**920 H**

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value.
J = Result is less than the RL but greater than or equal to the MDL and the
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*1= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Chlorobenzene	Chlorobromomethane	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
MW-3	MW-3	03/20/2023	1.6 U H	1.9 U H	2.4 U H	2.6 U H	2.1 U H	3.9 U H	1.6 U H	1.6 U H
MW-4	MW-4	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-5	MW-5	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	**0.99 J H**	0.55 U H	0.30 U H	0.20 U H
MW-6	MW-6	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-7	MW-7	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-8	MW-8	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-9	MW-9	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	0.30 U	0.20 U
MW-10	MW-10	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	0.30 U	0.20 U
MW-11	MW-11	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	0.30 U	0.20 U
MW-13	MW-13	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-14	MW-14	03/20/2023	1.6 U H	1.9 U H	2.4 U H	2.6 U H	**5.1 H**	3.9 U H	1.6 U H	1.6 U H
MW-15	MW-15	03/20/2023	1.6 U H	1.9 U H	2.4 U H	2.6 U H	2.1 U H	3.9 U H	1.6 U H	1.6 U H
MW-16	MW-16	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-17	MW-17	03/20/2023	1.6 U H	1.9 U H	2.4 U H	2.6 U H	2.1 U H	3.9 U H	1.6 U H	1.6 U H
MW-18	MW-18	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	**2.8 H**	0.55 U H	0.30 U H	0.20 U H
MW-19	MW-19	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	0.30 U	0.20 U
MW-20	MW-20	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	**140**	0.55 U	**0.54 J**	0.20 U
MW-22	MW-22	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	**1.9 H**	0.55 U H	**2.0 H**	0.20 U H
MW-23	MW-23	03/22/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	**3.1 H**	0.55 U H	0.30 U H	0.20 U H
MW-24	MW-24	03/22/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	**19 H**	0.55 U H	0.30 U H	0.20 U H
MW-25	MW-25	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-26	MW-26	03/20/2023	1.6 U H	1.9 U H	2.4 U H	2.6 U H	2.1 U H	3.9 U H	1.6 U H	1.6 U H
MW-27	MW-27	03/20/2023	1.6 U H	1.9 U H	2.4 U H	2.6 U H	**14 H**	3.9 U H	1.6 U H	1.6 U H
MW-28	MW-28	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-29	MW-29	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-30	MW-30	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	**6.0 H**	0.20 U H
MW-31	MW-31	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.20 U H	0.30 U H	0.55 U H	0.30 U H	0.20 U H
MW-100	MW-100	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	**0.41 J**	0.20 U
MW-101	MW-101	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	0.30 U	0.20 U
MW-102	MW-102	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	**0.35 J**	0.20 U
MW-103	MW-103	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	0.30 U	0.55 U	0.30 U	0.20 U
MW-3 DUP1	DUP1	03/20/2023	1.6 U H	1.9 U H	2.4 U H	2.6 U H	2.1 U H	3.9 U H	1.6 U H	1.6 U H
MW-20 DUP2	DUP2	03/22/2023	0.30 U	0.20 U	0.20 U	0.20 U	**130**	0.55 U	**0.58 J**	0.20 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value.
J = Result is less than the RL but greater than or equal to the MDL and the
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*1= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene	Methyl tert-butyl ether	Methylene Chloride	Naphthalene	n-Butylbenzene
MW-3	MW-3	03/20/2023	2.2 U H	2.4 U H	2.9 U H	2.2 U H	2.7 U H	1.8 U H	2.3 U H	1.9 U H	3.7 U H	3.9 U H	3.9 U H	3.8 U H
MW-4	MW-4	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	**1.9 J H**	0.30 U H
MW-5	MW-5	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-6	MW-6	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-7	MW-7	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-8	MW-8	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-9	MW-9	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-10	MW-10	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-11	MW-11	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-13	MW-13	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-14	MW-14	03/20/2023	2.2 U H	2.4 U H	2.9 U H	2.2 U H	2.7 U H	1.8 U H	2.3 U H	1.9 U H	3.7 U H	3.9 U H	3.9 U H	3.8 U H
MW-15	MW-15	03/20/2023	2.2 U H	2.4 U H	2.9 U H	2.2 U H	2.7 U H	1.8 U H	2.3 U H	1.9 U H	3.7 U H	3.9 U H	3.9 U H	3.8 U H
MW-16	MW-16	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-17	MW-17	03/20/2023	2.2 U H	2.4 U H	2.9 U H	2.2 U H	2.7 U H	1.8 U H	2.3 U H	1.9 U H	3.7 U H	3.9 U H	3.9 U H	3.8 U H
MW-18	MW-18	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-19	MW-19	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-20	MW-20	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-22	MW-22	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-23	MW-23	03/22/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-24	MW-24	03/22/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-25	MW-25	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-26	MW-26	03/20/2023	2.2 U H	2.4 U H	2.9 U H	2.2 U H	2.7 U H	1.8 U H	2.3 U H	1.9 U H	3.7 U H	3.9 U H	3.9 U H	3.8 U H
MW-27	MW-27	03/20/2023	2.2 U H	2.4 U H	2.9 U H	2.2 U H	2.7 U H	1.8 U H	2.3 U H	1.9 U H	3.7 U H	3.9 U H	3.9 U H	3.8 U H
MW-28	MW-28	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-29	MW-29	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-30	MW-30	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-31	MW-31	03/21/2023	0.30 U H	0.20 U H	0.20 U H	0.40 U H	0.20 U H	2.0 U H	0.20 U H	2.0 U H	0.20 U H	0.30 U H	1.0 U H	0.30 U H
MW-100	MW-100	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-101	MW-101	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-102	MW-102	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-103	MW-103	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U
MW-3 DUP1	DUP1	03/20/2023	2.2 U H	2.4 U H	2.9 U H	2.2 U H	2.7 U H	1.8 U H	2.3 U H	1.9 U H	3.7 U H	3.9 U H	3.9 U H	3.8 U H
MW-20 DUP2	DUP2	03/22/2023	0.30 U	0.20 U	0.20 U	0.40 U	0.20 U	2.0 U	0.20 U	2.0 U	0.20 U	0.30 U	1.0 U	0.30 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value.
J = Result is less than the RL but greater than or equal to the MDL and the
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*!= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 46
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl chloride
MW-3	MW-3	03/20/2023	2.1 U H	2.4 U H	2.4 U H	1.3 U H	1.8 U H	2.0 U H	1.7 U H	2.5 U H	1.7 U H	1.5 U H	1.5 U H	3.7 U H
MW-4	MW-4	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-5	MW-5	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-6	MW-6	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-7	MW-7	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-8	MW-8	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-9	MW-9	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	0.30 U	0.20 U	0.20 U
MW-10	MW-10	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	0.30 U	0.20 U	0.20 U
MW-11	MW-11	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	0.30 U	0.20 U	0.20 U
MW-13	MW-13	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-14	MW-14	03/20/2023	2.1 U H	2.4 U H	2.4 U H	1.3 U H	1.8 U H	2.0 U H	1.7 U H	2.5 U H	1.7 U H	1.5 U H	1.5 U H	3.7 U H
MW-15	MW-15	03/20/2023	2.1 U H	2.4 U H	2.4 U H	1.3 U H	1.8 U H	2.0 U H	1.7 U H	2.5 U H	1.7 U H	1.5 U H	1.5 U H	3.7 U H
MW-16	MW-16	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-17	MW-17	03/20/2023	2.1 U H	2.4 U H	2.4 U H	1.3 U H	1.8 U H	2.0 U H	1.7 U H	2.5 U H	1.7 U H	1.5 U H	1.5 U H	3.7 U H
MW-18	MW-18	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	**1.9 H**	0.20 U H	0.70 U H	0.20 U H	**47 H**	0.20 U H	0.20 U H
MW-19	MW-19	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	0.30 U	0.20 U	0.20 U
MW-20	MW-20	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	**9.3**	0.20 U	0.70 U	0.20 U	**170**	0.20 U	0.20 U
MW-22	MW-22	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	**0.59 J H**	0.20 U H	0.70 U H	0.20 U H	**4.9 H**	0.20 U H	0.20 U H
MW-23	MW-23	03/22/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	**0.81 J H**	0.20 U H	0.20 U H
MW-24	MW-24	03/22/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	**0.47 J H**	0.20 U H	0.70 U H	0.20 U H	**63 H**	0.20 U H	0.20 U H
MW-25	MW-25	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-26	MW-26	03/20/2023	2.1 U H	2.4 U H	2.4 U H	1.3 U H	1.8 U H	2.0 U H	1.7 U H	2.5 U H	1.7 U H	1.5 U H	1.5 U H	3.7 U H
MW-27	MW-27	03/20/2023	2.1 U H	2.4 U H	2.4 U H	1.3 U H	1.8 U H	2.0 U H	1.7 U H	2.5 U H	1.7 U H	1.5 U H	1.5 U H	3.7 U H
MW-28	MW-28	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-29	MW-29	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-30	MW-30	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-31	MW-31	03/21/2023	0.30 U H	0.40 U H	0.30 U H	0.30 U H	0.30 U H	0.30 U H	0.20 U H	0.70 U H	0.20 U H	0.30 U H	0.20 U H	0.20 U H
MW-100	MW-100	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	**4.6**	0.20 U	0.20 U
MW-101	MW-101	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	**2.7**	0.20 U	0.20 U
MW-102	MW-102	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	**26**	0.20 U	0.20 U
MW-103	MW-103	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	0.30 U	0.20 U	0.70 U	0.20 U	0.30 U	0.20 U	0.20 U
MW-3 DUP1	DUP1	03/20/2023	2.1 U H	2.4 U H	2.4 U H	1.3 U H	1.8 U H	2.0 U H	1.7 U H	2.5 U H	1.7 U H	1.5 U H	1.5 U H	3.7 U H
MW-20 DUP2	DUP2	03/22/2023	0.30 U	0.40 U	0.30 U	0.30 U	0.30 U	**8.9**	0.20 U	0.70 U	0.20 U	**160**	0.20 U	0.20 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value.
J = Result is less than the RL but greater than or equal to the MDL and the
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*1= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.

Bold indicates analyte was detected above the Method Detection Limit

Appendix D. Data Validation Memo

Data Review

The data quality review of the thirty-one primary groundwater samples and two field duplicate groundwater samples collected between March 20 and March 22, 2023 at the U.S. Department of Energy (DOE) National Technology Laboratory (NETL) in Albany, Oregon has been completed. All inorganic samples were submitted to Eurofins TestAmerica (ETA) Laboratories, Inc. in Tacoma, Washington. Fourteen primary groundwater samples were analyzed for twenty-three metals by EPA Methods 200.8, 245.1, and 200.7 Rev 4.4.

All volatile organic samples were submitted to ETA Laboratories, Inc. in Pittsburgh, Pennsylvania. ETA Pittsburgh analyzed six primary samples for volatile organic compounds (VOCs) by EPA Method 8260D. ETA Pittsburgh shipped the twenty-five remaining samples to ETA Lancaster in Lancaster, Pennsylvania, which analyzed the samples for VOCs by EPA Method 8260D.

The review included the analytical data presented in ETA report 180-154079-1. The data was reviewed based on *National Functional Guidelines for Superfund Organic Methods Data Review*, November 2020; *National Functional Guidelines for Superfund Inorganic Methods Data Review*, September 2016; and Laboratory quality control criteria.

The following criteria were evaluated during the review:

- Chain of Custody Records – Acceptable, Laboratory login order does not match the chain of custody. Pages 2 and 3 of the COC were logged in out of order and lab sample IDs don't match the order written on the COC. It appears that the lab consulted the sample times / dates and the sample IDs do correspond to the correct analytical results.

- Custody Seals – Acceptable, Present on coolers, intact when samples delivered to lab.

- Container Integrity – Acceptable, all sample containers were received intact by the lab, except MW-3, MW-14, and MW-17. These samples had a broken VOA each, but sufficient sample volume remaining for analysis.

- Sample Temperature – Acceptable, received at 2.9º C on ice.

- Trip Blank – No trip blank analyses were reported.

- Method Blanks – 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene were detected at low concentrations in the Method Blank for Analysis Batch 410-360825. Additionally, n-Butylbenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene, and Naphthalene were detected at low concentrations in the Method Blank for Analysis Batch 410-360918.

Results for analytes in batch 410-360825:

Analyte	Result in ug/L	Reporting Limit	MDL
1,2,3-Trichlorobenzene	0.474 J	5.0	0.40
1,2,4-Trichlorobenzene	0.311 J	5.0	0.30

J = estimated, above the Method Detection Limit but below the Reporting Limit

Well	Sample ID	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene
MW-4	MW-4	0.40 U H	0.30 U H
MW-5	MW-5	0.40 U H	0.30 U H
MW-6	MW-6	0.40 U H	0.30 U H
Method Blank	Method Blank	0.474 J	0.311 J

U = non-detect. H= analyzed outside of hold times.

There is no effect on the sample results since they were not detected and the very low concentrations in the method blank.

Results for analytes in batch 410-360825:

Analyte	Result in ug/L	Reporting Limit	MDL
1,2,3-Trichlorobenzene	0.629 J	5.0	0.40
1,2,4-Trichlorobenzene	0.577 J	5.0	0.30
Naphthalene	1.02 J	5.0	1.0
n-Butylbenzene	0.346 J	5.0	0.30

J = estimated, above the Method Detection Limit but below the Reporting Limit

Well	Sample ID	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Naphthalene	n-Butylbenzene
MW-8	MW-4	0.40 U H	0.30 U H	1.0 U H	0.30 U H
MW-13	MW-13	0.40 U H	0.30 U H	1.0 U H	0.30 U H
MW-16	MW-16	0.40 U H	0.30 U H	1.0 U H	0.30 U H
MW-18	MW-18	0.40 U H	0.30 U H	1.0 U H	0.30 U H
MW-28	MW-28	0.40 U H	0.30 U H	1.0 U H	0.30 U H
MW-29	MW-29	0.40 U H	0.30 U H	1.0 U H	0.30 U H
MW-30	MW-30	0.40 U H	0.30 U H	1.0 U H	0.30 U H
MW-31	MW-31	0.40 U H	0.30 U H	1.0 U H	0.30 U H
Method Blank	Method Blank	0.629 J	0.577 J	1.02 J	0.346 J

U = non-detect. H= analyzed outside of hold times.

There is no effect on the sample results since they were not detected and the very low concentrations in the method blank.

- Surrogate Recoveries – All surrogate recoveries were within acceptance criteria.

- Matrix Spikes – All matrix spike recoveries were within acceptance limits.

- Field Duplicate – Results from samples MW-3 and DUP1 were non-detect for all Method 8260D volatile organics.

- Field Duplicate – Results from duplicate pair MW-20 and DUP2 had detects for Carbon tetrachloride, Chloroform, cis-1,2-Dichloroethene, Tetrachloroethene and Trichloroethene via Method 8260D volatile organics.

- Field Duplicate – All duplicate results for metals analyses were within standards. Where both sample results were 5 x the MDL, the % RPD was less than 20 %.

MW-3	Result ug/L	Flag	MDL mg/L	DUP1	Result ug/L	Flag	MDL mg/L	Difference mg/L	% RPD
Aluminum	0.31	J	0.10	Aluminum	0.31	J	0.10	0	0.00%
Antimony	0.00018	J	0.00013	Antimony	0.00013	U	0.00013	0.00005	
Arsenic	0.00045	J	0.00020	Arsenic	0.00048	J	0.00020	0.00003	4.35%
Barium	0.0071		0.00021	Barium	0.0074		0.00021	0.0003	2.78%
Beryllium	0.00011	U	0.00011	Beryllium	0.00011	U	0.00011	0	
Cadmium	0.000037	U	0.000037	Cadmium	0.000037	U	0.000037	0	
Calcium	23		0.077	Calcium	23		0.077	0	0.00%
Chromium	0.0011		0.00017	Chromium	0.0013		0.00017	0.0002	11.43%
Cobalt	0.00056		0.000039	Cobalt	0.00056		0.000039	0	0.00%
Copper	0.00060	U	0.00060	Copper	0.00069	J	0.00060	0.00009	
Iron	0.70		0.061	Iron	0.75		0.061	0.05	4.65%
Lead	0.00022	J	0.000040	Lead	0.00020	J	0.000040	0.00002	6.25%
Magnesium	12		0.047	Magnesium	12		0.047	0	0.00%
Manganese	0.017		0.00046	Manganese	0.017		0.00046	0	0.00%
Mercury	0.00015	U	0.00015	Mercury	0.00015	U	0.00015	0	
Nickel	0.00066	J	0.00013	Nickel	0.00073	J	0.00013	0.00007	6.83%
Potassium	0.69	J	0.17	Potassium	0.57	J	0.17	0.12	12.31%
Selenium	0.0021	U	0.0021	Selenium	0.0021	U	0.0021	0	
Silver	0.000025	U	0.000025	Silver	0.000025	U	0.000025	0	
Sodium	9.2		0.33	Sodium	9.3		0.33	0.1	0.72%
Thallium	0.000043	J	0.000029	Thallium	0.000029	U	0.000029	0.000014	
Vanadium	0.0059		0.00046	Vanadium	0.0062		0.00046	0.0003	3.33%
Zinc	0.0013	J	0.00093	Zinc	0.0015	J	0.00093	0.0002	9.76%

MW-3	Result ug/L	Flag	MDL ug/L	DUP1	Result ug/L	Flag	MDL ug/L	Difference ug/L	% RPD
1,1,1,2-Tetrachloroethane	3.9	U H	3.9	1,1,1,2-Tetrachloroethane	3.9	U H	3.9	0	
1,1,1-Trichloroethane	2.5	U H	2.5	1,1,1-Trichloroethane	2.5	U H	2.5	0	
1,1,2,2-Tetrachloroethane	3.0	U H	3.0	1,1,2,2-Tetrachloroethane	3.0	U H	3.0	0	
1,1,2-Trichloroethane	2.4	U H	2.4	1,1,2-Trichloroethane	2.4	U H	2.4	0	
1,1-Dichloroethane	1.8	U H	1.8	1,1-Dichloroethane	1.8	U H	1.8	0	
1,1-Dichloroethene	2.9	U H	2.9	1,1-Dichloroethene	2.9	U H	2.9	0	
1,1-Dichloropropene	1.7	U H	1.7	1,1-Dichloropropene	1.7	U H	1.7	0	
1,2,3-Trichlorobenzene	3.5	U H	3.5	1,2,3-Trichlorobenzene	3.5	U H	3.5	0	
1,2,3-Trichloropropane	2.8	U H	2.8	1,2,3-Trichloropropane	2.8	U H	2.8	0	
1,2,4-Trichlorobenzene	3.7	U H	3.7	1,2,4-Trichlorobenzene	3.7	U H	3.7	0	
1,2,4-Trimethylbenzene	1.3	U H	1.3	1,2,4-Trimethylbenzene	1.3	U H	1.3	0	
1,2-Dibromo-3-Chloropropane	3.1	U H	3.1	1,2-Dibromo-3-Chloropropane	3.1	U H	3.1	0	
1,2-Dichlorobenzene	2.0	U H	2.0	1,2-Dichlorobenzene	2.0	U H	2.0	0	
1,2-Dichloroethane	1.5	U H	1.5	1,2-Dichloroethane	1.5	U H	1.5	0	
1,2-Dichloropropane	2.5	U H	2.5	1,2-Dichloropropane	2.5	U H	2.5	0	
1,3,5-Trimethylbenzene	1.7	U H	1.7	1,3,5-Trimethylbenzene	1.7	U H	1.7	0	
1,3-Dichlorobenzene	1.6	U H	1.6	1,3-Dichlorobenzene	1.6	U H	1.6	0	
1,3-Dichloropropane	2.6	U H	2.6	1,3-Dichloropropane	2.6	U H	2.6	0	
1,4-Dichlorobenzene	1.0	U H	1.0	1,4-Dichlorobenzene	1.0	U H	1.0	0	
2,2-Dichloropropane	2.5	U H	2.5	2,2-Dichloropropane	2.5	U H	2.5	0	
2-Chlorotoluene	1.9	U H	1.9	2-Chlorotoluene	1.9	U H	1.9	0	
4-Chlorotoluene	1.8	U H	1.8	4-Chlorotoluene	1.8	U H	1.8	0	
4-Isopropyltoluene	2.2	U H	2.2	4-Isopropyltoluene	2.2	U H	2.2	0	
Benzene	2.0	U H	2.0	Benzene	2.0	U H	2.0	0	
Bromobenzene	1.6	U H	1.6	Bromobenzene	1.6	U H	1.6	0	
Bromochloromethane	1.9	U H	1.9	Bromochloromethane	1.9	U H	1.9	0	
Bromoform	2.6	U H	2.6	Bromoform	2.6	U H	2.6	0	
Bromomethane	4.5	U H	4.5	Bromomethane	4.5	U H	4.5	0	
Carbon tetrachloride	3.3	U H	3.3	Carbon tetrachloride	3.3	U H	3.3	0	
Chlorobenzene	1.6	U H	1.6	Chlorobenzene	1.6	U H	1.6	0	
Chlorodibromomethane	2.4	U H	2.4	Chlorodibromomethane	2.4	U H	2.4	0	
Chloroethane	2.6	U H	2.6	Chloroethane	2.6	U H	2.6	0	
Chloroform	2.1	U H	2.1	Chloroform	2.1	U H	2.1	0	
Chloromethane	3.9	U H	3.9	Chloromethane	3.9	U H	3.9	0	
cis-1,2-Dichloroethene	1.6	U H	1.6	cis-1,2-Dichloroethene	1.6	U H	1.6	0	
cis-1,3-Dichloropropene	1.6	U H	1.6	cis-1,3-Dichloropropene	1.6	U H	1.6	0	
Dibromomethane	2.2	U H	2.2	Dibromomethane	2.2	U H	2.2	0	
Dichlorobromomethane	2.4	U H	2.4	Dichlorobromomethane	2.4	U H	2.4	0	
Dichlorodifluoromethane	2.9	U H	2.9	Dichlorodifluoromethane	2.9	U H	2.9	0	
Ethylbenzene	2.2	U H	2.2	Ethylbenzene	2.2	U H	2.2	0	
Ethylene Dibromide	2.7	U H	2.7	Ethylene Dibromide	2.7	U H	2.7	0	
Hexachlorobutadiene	1.8	U H	1.8	Hexachlorobutadiene	1.8	U H	1.8	0	
Isopropylbenzene	2.3	U H	2.3	Isopropylbenzene	2.3	U H	2.3	0	
Methyl tert-butyl ether	3.7	U H	3.7	Methyl tert-butyl ether	3.7	U H	3.7	0	
Methylene Chloride	3.9	U H	3.9	Methylene Chloride	3.9	U H	3.9	0	
m-Xylene & p-Xylene	1.9	U H	1.9	m-Xylene & p-Xylene	1.9	U H	1.9	0	
Naphthalene	3.9	U H	3.9	Naphthalene	3.9	U H	3.9	0	
n-Butylbenzene	3.8	U H	3.8	n-Butylbenzene	3.8	U H	3.8	0	

MW-3	Result ug/L	Flag	MDL ug/L	DUP1	Result ug/L	Flag	MDL ug/L	Difference ug/L	% RPD
N-Propylbenzene	2.1	U H	2.1	N-Propylbenzene	2.1	U H	2.1	0	
o-Xylene	2.4	U H	2.4	o-Xylene	2.4	U H	2.4	0	
sec-Butylbenzene	2.4	U H	2.4	sec-Butylbenzene	2.4	U H	2.4	0	
Styrene	1.3	U H	1.3	Styrene	1.3	U H	1.3	0	
tert-Butylbenzene	1.8	U H	1.8	tert-Butylbenzene	1.8	U H	1.8	0	
Tetrachloroethene	2.0	U H	2.0	Tetrachloroethene	2.0	U H	2.0	0	
Toluene	1.7	U H	1.7	Toluene	1.7	U H	1.7	0	
trans-1,2-Dichloroethene	2.5	U H	2.5	trans-1,2-Dichloroethene	2.5	U H	2.5	0	
trans-1,3-Dichloropropene	1.7	U H	1.7	trans-1,3-Dichloropropene	1.7	U H	1.7	0	
Trichloroethene	1.5	U H	1.5	Trichloroethene	1.5	U H	1.5	0	
Trichlorofluoromethane	1.5	U H	1.5	Trichlorofluoromethane	1.5	U H	1.5	0	
Vinyl chloride	3.7	U H	3.7	Vinyl chloride	3.7	U H	3.7	0	

MW-20	Result mg/L	Flag	MDL ug/L	DUP2	Result ug/L	Flag	MDL mg/L	Difference mg/L	% RPD
Aluminum	0.26	J	0.10	Aluminum	0.45	J	0.10	0.19	39.18%
Antimony	0.00013	U	0.00013	Antimony	0.00013	U	0.00013	0	
Arsenic	0.0018		0.00020	Arsenic	0.0018		0.00020	0	0.00%
Barium	0.035		0.00021	Barium	0.031		0.00021	0.004	7.92%
Beryllium	0.00011	U	0.00011	Beryllium	0.00011	U	0.00011	0	
Cadmium	0.000045	J	0.000037	Cadmium	0.000037	U	0.000037	0.000008	
Calcium	35		0.077	Calcium	35		0.077	0	0.00%
Chromium	0.0010		0.00017	Chromium	0.0012		0.00017	0.0002	12.50%
Cobalt	0.0017		0.000039	Cobalt	0.0016		0.000039	1E-04	4.00%
Copper	0.0013	J	0.00060	Copper	0.00091	J	0.00060	0.00039	22.22%
Iron	0.39	J	0.061	Iron	0.62	J	0.061	0.23	32.86%
Lead	0.00013	J	0.000040	Lead	0.00021	J	0.000040	0.00008	34.04%
Magnesium	16		0.047	Magnesium	16		0.047	0	0.00%
Manganese	2.8		0.00046	Manganese	2.4		0.00046	0.4	10.00%
Mercury	0.00015	U	0.00015	Mercury	0.00015	U	0.00015	0	
Nickel	0.0050		0.00013	Nickel	0.0050		0.00013	0	0.00%
Potassium	0.95	J	0.17	Potassium	0.97	J	0.17	0.02	1.39%
Selenium	0.0021	U	0.0021	Selenium	0.0021	U	0.0021	0	
Silver	0.000025	U	0.000025	Silver	0.000025	U	0.000025	0	
Sodium	23		0.33	Sodium	23		0.33	0	0.00%
Thallium	0.000029	U	0.000029	Thallium	0.000029	U	0.000029	0	
Vanadium	0.015		0.00046	Vanadium	0.015		0.00046	0	0.00%
Zinc	0.0029	J	0.00093	Zinc	0.0031	J	0.00093	0.0002	4.49%

MW-20	Result ug/L	Flag	DUP2	Result ug/L	Flag	MDL ug/L	Difference ug/L	% RPD
1,1,1,2-Tetrachloroethane	0.30	U	1,1,1,2-Tetrachloroethane	0.30	U	0.30	0	
1,1,1-Trichloroethane	0.30	U	1,1,1-Trichloroethane	0.30	U	0.30	0	
1,1,2,2-Tetrachloroethane	0.30	U	1,1,2,2-Tetrachloroethane	0.30	U	0.30	0	
1,1,2-Trichloroethane	0.30	U	1,1,2-Trichloroethane	0.30	U	0.30	0	
1,1-Dichloroethane	0.30	U	1,1-Dichloroethane	0.30	U	0.30	0	

MW-20	Result ug/L	Flag	DUP2	Result ug/L	Flag	MDL ug/L	Difference ug/L	% RPD
1,1-Dichloroethene	0.30	U	1,1-Dichloroethene	0.30	U	0.30	0	
1,1-Dichloropropene	0.30	U	1,1-Dichloropropene	0.30	U	0.30	0	
1,2,3-Trichlorobenzene	0.40	U	1,2,3-Trichlorobenzene	0.40	U	0.40	0	
1,2,3-Trichloropropane	0.30	U	1,2,3-Trichloropropane	0.30	U	0.30	0	
1,2,4-Trichlorobenzene	0.30	U	1,2,4-Trichlorobenzene	0.30	U	0.30	0	
1,2,4-Trimethylbenzene	1.0	U	1,2,4-Trimethylbenzene	1.0	U	1.0	0	
1,2-Dibromo-3-Chloropropane	0.30	U	1,2-Dibromo-3-Chloropropane	0.30	U	0.30	0	
1,2-Dichlorobenzene	0.20	U	1,2-Dichlorobenzene	0.20	U	0.20	0	
1,2-Dichloroethane	0.30	U	1,2-Dichloroethane	0.30	U	0.30	0	
1,2-Dichloropropane	0.30	U	1,2-Dichloropropane	0.30	U	0.30	0	
1,3,5-Trimethylbenzene	0.30	U	1,3,5-Trimethylbenzene	0.30	U	0.30	0	
1,3-Dichlorobenzene	0.68	U	1,3-Dichlorobenzene	0.68	U	0.68	0	
1,3-Dichloropropane	0.30	U	1,3-Dichloropropane	0.30	U	0.30	0	
1,4-Dichlorobenzene	0.30	U	1,4-Dichlorobenzene	0.30	U	0.30	0	
2,2-Dichloropropane	0.30	U	2,2-Dichloropropane	0.30	U	0.30	0	
2-Chlorotoluene	0.30	U	2-Chlorotoluene	0.30	U	0.30	0	
4-Chlorotoluene	0.30	U	4-Chlorotoluene	0.30	U	0.30	0	
4-Isopropyltoluene	0.30	U	4-Isopropyltoluene	0.30	U	0.30	0	
Benzene	0.30	U	Benzene	0.30	U	0.30	0	
Bromobenzene	0.30	U	Bromobenzene	0.30	U	0.30	0	
Bromochloromethane	0.20	U	Bromochloromethane	0.20	U	0.20	0	
Bromoform	1.0	U	Bromoform	1.0	U	1.0	0	
Bromomethane	0.30	U	Bromomethane	0.30	U	0.30	0	
Carbon tetrachloride	840	H	Carbon tetrachloride	920	H	3.0	80	6.15%
Chlorobenzene	0.30	U	Chlorobenzene	0.30	U	0.30	0	
Chlorodibromomethane	0.20	U	Chlorodibromomethane	0.20	U	0.20	0	
Chloroethane	0.20	U	Chloroethane	0.20	U	0.20	0	
Chloroform	140		Chloroform	130		0.30	10	4.88%
Chloromethane	0.55	U	Chloromethane	0.55	U	0.55	0	
cis-1,2-Dichloroethene	0.54	J	cis-1,2-Dichloroethene	0.58	J	0.30	0.04	4.82%
cis-1,3-Dichloropropene	0.20	U	cis-1,3-Dichloropropene	0.20	U	0.20	0	
Dibromomethane	0.30	U	Dibromomethane	0.30	U	0.30	0	
Dichlorobromomethane	0.20	U	Dichlorobromomethane	0.20	U	0.20	0	
Dichlorodifluoromethane	0.20	U	Dichlorodifluoromethane	0.20	U	0.20	0	
Ethylbenzene	0.40	U	Ethylbenzene	0.40	U	0.40	0	
Ethylene Dibromide	0.20	U	Ethylene Dibromide	0.20	U	0.20	0	
Hexachlorobutadiene	2.0	U	Hexachlorobutadiene	2.0	U	2.0	0	
Isopropylbenzene	0.20	U	Isopropylbenzene	0.20	U	0.20	0	
Methyl tert-butyl ether	0.20	U	Methyl tert-butyl ether	0.20	U	0.20	0	
Methylene Chloride	0.30	U	Methylene Chloride	0.30	U	0.30	0	

MW-20	Result ug/L	Flag	DUP2	Result ug/L	Flag	MDL ug/L	Difference ug/L	% RPD
m-Xylene & p-Xylene	2.0	U	m-Xylene & p-Xylene	2.0	U	2.0	0	
Naphthalene	1.0	U	Naphthalene	1.0	U	1.0	0	
n-Butylbenzene	0.30	U	n-Butylbenzene	0.30	U	0.30	0	
N-Propylbenzene	0.30	U	N-Propylbenzene	0.30	U	0.30	0	
o-Xylene	0.40	U	o-Xylene	0.40	U	0.40	0	
sec-Butylbenzene	0.30	U	sec-Butylbenzene	0.30	U	0.30	0	
Styrene	0.30	U	Styrene	0.30	U	0.30	0	
tert-Butylbenzene	0.30	U	tert-Butylbenzene	0.30	U	0.30	0	
Tetrachloroethene	9.3		Tetrachloroethene	8.9		0.30	0.4	2.91%
Toluene	0.20	U	Toluene	0.20	U	0.20	0	
trans-1,2-Dichloroethene	0.70	U	trans-1,2-Dichloroethene	0.70	U	0.70	0	
trans-1,3-Dichloropropene	0.20	U	trans-1,3-Dichloropropene	0.20	U	0.20	0	
Trichloroethene	170		Trichloroethene	160		0.30	10	4.00%
Trichlorofluoromethane	0.20	U	Trichlorofluoromethane	0.20	U	0.20	0	
Vinyl chloride	0.20	U	Vinyl chloride	0.20	U	0.20	0	

- Holding Times – A significant number of samples were not analyzed within hold times:

Days Over Hold	Sample ID
0	MW-9, 10, 11, 19, 20, 23, 24
1	MW-4, 5, 6, 7, 8, 16, 18, 22, 25, 29, 30, 31, 101, 102
2	DUP2 (MW-20), MW-15, 26, 27
3	MW-13, 28
4	DUP1 (MW-3), MW-3, 14, 17
6	MW-100, 103

Due to the extreme breakdown resistance of chlorinated solvents, no further qualification for hold times are necessary.

Overall Assessment of Data

All results are valid as reported.

References

EPA 2016. National Functional Guidelines for Superfund Inorganic Methods Data Review, September.

EPA 2020. National Functional Guidelines for Superfund Organic Methods Data Review, November.