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GROUNDWATER MONITORING REPORT
EVENT 44 – March 2022

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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 2022 (Periodic Event 44) 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 2022 sampling event is the 44th 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 2022 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. In the Gravel Aquifer, groundwater elevation data shows a broad potentiometric high centered on monitoring wells MW-102, MW-16 and MW-25, from which flow is radially away in all directions. The steepest flow gradient is from this high toward wells at the south end of the site (wells MW-5 and MW-31).

Groundwater samples were collected from thirty-one of the thirty-three two-inch diameter monitoring wells between March 15 and March 17. 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.

Ten VOCs were detected during the March 2022 sampling event and are discussed in Section 4.1: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), dichlorobromomethane, n-butylbenzene, naphthalene, tetrachloroethene (PCE), trans-1,2-dichloroethene (trans-1,2-DCE), 1,2,4-trichlorobenzene, and trichloroethene (TCE). Seven 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).

1.0 Introduction

This report describes the March 2022 (Periodic Event 44) 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 44 Work Plan Memo (February 2022).

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 2022 sampling event is the forty-fourth 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		

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 43). 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 2022 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. These water-level data were 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 44.

2.2 Groundwater Sampling

Groundwater samples were collected between March 15 and March 17, 2022 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.

Two field duplicates samples were collected during the event, one set each from wells MW-3 and MW-102. 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 waste water system in accordance with the site's industrial waste water 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.

There were considerable problems with the data quality, especially with analytical batch 580-385935. All twelve samples were analyzed past hold time. In seven samples, more than twenty analytes were detected below the reporting limit but above the detection limit, all at the same concentrations. Most of these analytes have never been detected in Site wells. All of these detections were labelled R for unusable, and are the result of lab error. In Table 6, and in Figures 5 to 12, the results for these analyses are listed as undetected (U) at the Reporting Limit instead of the Detection Limit. The raw values are listed in Appendix C with the appropriate qualifiers, including R. Detections in

batch 580-385935 of the five normally present contaminants (carbon tetrachloride, chloroform, cis-1,2-DCE, TCE, and PCE) are likely valid in the wells where they are usually found, due to their higher concentrations.

The results from the 10:1 dilution analysis from well MW-20 are unusable. Although some of the concentrations for the undiluted sample are estimated, they have been used instead.

There were an extraordinarily large number of QC problems with this data. The data from the twelve samples in batch 580-385935 is of questionable value. Data from the other analytical batches is valid as presented and usable for project decision-making purposes. 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 44.

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 2022 Groundwater Elevations and Flow Direction

Groundwater levels were measured in the thirty-five existing wells and piezometers in March 2022. Groundwater depths ranged from 1.05 feet bgs at MW-9 to 19.17 feet bgs at MW-1. Groundwater elevations ranged from 206.83 feet above mean sea level (amsl) at MW-5 to 224.11 feet amsl at MW-10. Event 44 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 2022 groundwater elevation (212.21 feet) was 6.98 feet higher than the average elevation during the previous dry season (August 2021, 205.23 feet) and 0.37 feet lower than the previous wet season (March 2021, (212.58 feet).

Figures 3 and 4 show the groundwater elevation contours for the Perched Aquifer and Gravel Aquifer, respectively, for the March 2022 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 2022 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 from MW-28. The gradient during March 2022 was 4.25 E-03 (between MW-10 to MW-11) in the northern part of the site, and

between 1.56 E-02 (between MW-10 to MW-8) and 6.00 E-03 (between MW-10 to MW-4) in the southern part of the site.

In the Gravel Aquifer, groundwater elevation data shows a broad potentiometric high centered on monitoring wells MW-102, MW-16 and MW-25, from which flow is radially away in all directions. The steepest flow gradient is from this high toward wells MW-5 and MW-31 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; -8.40 E-04 (between MW-23 and MW-24); and 2.13 E-03 (between MW-25 and MW-23). The gradient steepens to the south; 9.47 E-03 (between MW-16 and MW-6) and 6.41 E-03 (between MW-16 and MW-31). 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 2022 sampling event. Groundwater samples from thirty-one monitoring wells were analyzed for VOCs. Table 5 summarizes the March 2022 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. Appendix B includes the TestAmerica Laboratories Analytical Reports and Appendix C summarizes all reported groundwater lab data of volatile organics.

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 340-040-0020 (Groundwater Quality Protection). The MMLs are the maximum allowable concentrations of the chemicals in groundwater established by the State of Oregon. The Oregon Department of Environmental Quality (DEQ) uses the MMLs in the process of designating groundwater management areas in Oregon where necessary to preserve groundwater quality. MMLs are not *de facto* cleanup levels but are generally consistent with the EPA Primary MCLs. 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 2022 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. Some samples are annotated “E” for estimated, as the result was above the calibration 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

Ten VOCs were detected during the March 2022 sampling event: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), dichlorobromomethane, n-butylbenzene, naphthalene, tetrachloroethene (PCE), trans-1,2-dichloroethene (trans-1,2-DCE), 1,2,4-trichlorobenzene, and trichloroethene (TCE). Seven 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).

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 eight of the thirty-one wells sampled during the March 2022 sampling event at concentrations ranging from 0.50 (J H) µg/L at MW-25 to 140 µg/L at MW-24. It was not detected in MW-20, although it would have been expected to have the highest concentration on site, in the range of 2000 µg/L. This is believed to be due to laboratory error (see Appendix D, Data Validation Memo). All eight of the detections of carbon tetrachloride exceeded the minimum groundwater criteria, which is the Oregon DEQ RBC of 0.41 µg/L. In addition, all eight of the detections exceed the EPA RSL of 0.43 µg/L. Four 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 eleven of the thirty-one wells sampled during the March 2022 sampling event at concentrations ranging from 0.58 (J H) µg/L at MW-17 to 190 € 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 2022 sampling event at concentrations ranging from 0.46 (J) µg/L at MW-100 and MW-15 (JH), to 5.5 µg/L at MW-30. One of the detections exceed the minimum screening criteria, which is the EPA RSL of 3.6 µg/L. Cis-1,2-DCE is an anaerobic breakdown product of TCE.

Dichlorobromomethane. Dichlorobromomethane was detected in one of the thirty-one wells sampled during the March 2022 sampling event at a concentration of 0.36 (J) µg/L at MW-14. The detection did not exceed the minimum screening criteria, which is the Oregon Groundwater MMLs of 100 µg/L. Dichlorobromomethane has formerly been used as a flame retardant, and a solvent for fats and waxes and because of its high density for mineral separation. It can also occur in municipally-treated drinking water as a by-product of the chlorine disinfection process.

N-Butylbenzene. N-Butylbenzene was detected in one of the thirty-one wells sampled during the March 2022 sampling event at 2.8 (H) µg/L in well MW-27. This did not exceed the minimum screening criteria of 100 µg/L, which is the EPA Regional Screening Level. N-Butylbenzene is used in making plastics and as a solvent.

Naphthalene. Naphthalene was detected in one of the thirty-one wells sampled during the March 2022 sampling event at 0.96 (J) µg/L in well MW-3. This exceeded the minimum screening criteria of 0.14 µg/L, which is the Oregon DEQ RBC. It also exceeds the EPA RSL of 0.17 µg/L.

Tetrachloroethene (PCE). PCE was detected in six of the thirty-one wells sampled during the March 2022 sampling event at concentrations ranging from 0.43 (J H) µg/L at MW-15 to 13 µg/L at MW-20. Two of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 4.1 µg/L. In addition, two 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, degreasing, and dry cleaning.

Trans-1,2-Dichloroethene. Trans-1,2-Dichloroethene was detected in one of the thirty-one wells sampled during the March 2022 sampling event at a concentration of 0.47 (J) µg/L at MW-30. The detection did not exceed the minimum screening criteria, which is the EPA RSL of 36 µg/L. The primary uses for trans-1,2-dichloroethene are as a solvent in processing and in formulations for cleaning and degreasing, it is also an anaerobic breakdown product of TCE.

1,2,4-Trichlorobenzene. 1,2,4-Trichlorobenzene was detected in one of the thirty-one wells sampled during the March 2022 sampling event at a concentration of 0.52 (J) µg/L at MW-3. This exceeds the minimum screening criteria of 0.40 µg/L, which is the EPA RSL. 1,2,4-Trichlorobenzene is used as a solvent for oils, waxes, resins, greases, and rubber.

Trichloroethene (TCE). TCE was detected in eleven of the thirty-one wells sampled during the March 2022 sampling event at concentrations ranging from 1.5 (H) µg/L at MW-23 to 260 (E) µg/L at MW-20. All of the TCE detections exceeded the minimum groundwater criteria, which is the EPA RSL of 0.28 µg/L. In addition, all of 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.

4.2 Water Quality Parameters

Table 2 summarizes field parameters recorded at each of the thirty-one wells, including pH, conductivity, turbidity, DO, temperature, and ORP.

In March 2022:

- Temperatures ranged from 11.6 degrees Celsius (°C) at MW-7 to 16.6 °C at MW-18.
- DO was detected in all of the thirty-one wells and ranged from 0.05 at MW-31 to 7.98 at MW-6.
- pH ranged from 5.44 s.u. at MW-9 to 7.30 s.u. at MW-23.
- Conductivity ranged from 0.081 milli Siemens per centimeter (mS/cm) at MW-9 to 0.512 mS/cm at MW-100.
- ORP ranged from -126 millivolts (mV) at MW-31 to 177 mV at MW-9.
- All thirty-one wells sampled had measurable turbidity once readings stabilized. The measurable turbidity ranged from 0.05 nephelometric turbidity units (NTUs) at MW-27, to 12.48 NTUs at MW-11.

4.3 Contaminant Trends

Several important trends in the VOC concentrations were noted at nineteen locations: MW-3, MW-4, MW-5, MW-6, 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-3.* Concentrations of chloroform and TCE returned to non-detect after a one-time detection in August 2021. All other contaminants remain non-detected since August 2017.
- *MW*-4. Carbon tetrachloride was last detected in March 2020, the only other detection was in April 2016.
- *MW*-5. Concentrations of chloroform continue to fluctuate seasonally with higher concentrations reported during the dry season. The March 2022 value of 1.1 µg/l was below that of August 2021(1.8 µg/L) and well below the previous high recorded in August 2017 of 4.8 µg/l. Concentrations of carbon tetrachloride were elevated at 15.0 µg/l during the March 2009 sampling event but have been non-detect since then.
- *MW*-6. Concentrations of cis-1,2-DCE continue to fluctuate, with higher concentrations reported during the dry season. Cis-1,2-DCE was 0.69 µg/l in August 2021, and non-detect in March 2022. Carbon tetrachloride, chloroform, TCE, and PCE continue to be non-detect.
- *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 2022 value of 4.7 ug/l is a considerable decrease from the August 2021 value. The carbon tetrachloride concentration 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 2022 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 2022 TCE concentration of 14 (H) µg/L was significantly lower than the 130 µg/L in August 2021, and a new record low since the well was installed in 2005. Chloroform was only slightly higher (1.2 H µg/L) than it was in the record low of 0.99 µg/L in August 2021. Cis-1,2.-DCE was detected at 0.46 (J H) µg/L for the first time since March 2020. The March 2022 value for carbon tetrachloride of 3.5 (H) µg/L is a record low since 2005. PCE was detected at 0.43 (J H) µg/L for the first time since March 2013.
- *MW-17.* TCE was reported at 8.3 (H) µg/L, a sharp decrease from the 44 µg/L in August 2021, which was the highest since 120 µg/L in August 2015. Carbon tetrachloride was detected at 0.53 (J H) µg/L, similar to the low concentration (0.62 µg/L) of August 2021. Carbon tetrachloride concentrations have shown a downward trend since August 2014. Chloroform was present at 0.58 (J H) µg/L after the August 2021 value

of 0.46 µg/L. The cis-1,2-DCE detection in August 2021 (1.5 µg/L) decreased to 0.82 (J H) µg/L. PCE remained non-detect during the August 2021 sampling event.

- *MW-18.* The five primary VOCs (carbon tetrachloride, chloroform, cis-1,2-DCE, TCE, and PCE) continue to decline sharply, a trend that started in March 2021. Record low concentrations of carbon tetrachloride, TCE, chloroform, and PCE were detected in March 2022.
- *MW-20.* Concentrations of carbon tetrachloride, chloroform, PCE, and TCE fluctuate seasonally and were comparable to previous values. Carbon tetrachloride was not detected in the undiluted sample, and was only detected at 66 µg/L in a 10:1 dilution. The values for the undiluted sample were consistent with past concentrations for all contaminants except carbon tetrachloride and are presented in this report. The 10:1 dilution analysis had multiple QC problems, including detection of tens of compounds never detected on this Site. For this reason, it was deemed unusable (see Appendix D, Data Validation Memo, for details). The failure to detect carbon tetrachloride at what should have been a concentration of approximately 2000 µg/L is likely due to laboratory error. Carbon tetrachloride, chloroform, and PCE all have long-term increasing concentrations.
- *MW-22.* TCE continues to decrease, but the four other contaminants have been at relatively stable concentrations since September 2016.
- *MW-23.* There were sharp increases in the concentrations of carbon tetrachloride, chloroform, and TCE in March 2022 after the August 2021 decrease. This continues an overall downward trend that started in 2012. Cis-1,2-DCE and PCE remain at non-detected concentrations.
- *MW-24.* Concentrations of carbon tetrachloride, chloroform, and TCE declined from their August 2021 record levels. Cis-1,2-DCE remained at non-detected concentrations. PCE continued a sharp spike that started in March 2020 with a more than ten-fold increase to 8.5 (J H) µg/L.
- *MW-27*. There were large spikes in the concentrations of carbon tetrachloride and chloroform from the August 2021 record lows for this well, which is completed in the Perched aquifer. The March 2022 value for carbon tetrachloride of 120 (H E) µg/L was the highest since August 2014. TCE returned to non-detect along with cis-1,2-DCE and PCE.
- MW-28. Chloroform was detected for the first time ever at 1.2 (H) µg/L. All other contaminants remain non-detect.
- *MW-30*. The concentration of cis-1,2-DCE of 5.5 µg/L in March 2022 continues a downward trend since 2012. Carbon tetrachloride, chloroform, PCE, and TCE remain non-detected.
- *MW-100.* The concentration of TCE dropped to 6.7 (H) µg/L after the August 2021 value of 80 µg/L, which was the highest since August 2011. Carbon tetrachloride, chloroform, cis-1,2-DCE, and PCE were non-detected.
- *MW-101*. TCE was detected at 2.2 (H) µg/l in March 2022, higher than the 1.8 µg/L for August 2021. 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 4.1 (H) µg/L in March 2022 is lower than the value of 6.5 µg/L in August 2021 and is a record low. This continues a downward trend starting in 2006. Carbon tetrachloride, cis-1,2-DCE, chloroform, and PCE were non-detected.
- *MW-103*. TCE returned to non-detect, joining carbon tetrachloride, chloroform, cis-1,2-DCE, and PCE.

Results from Event 44 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 is 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 seven 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 off-site to the northwest. The August 2021 highest detected carbon tetrachloride concentration (1700 µg/L) was in well MW-20, located north of the suspected primary source area near MW-18. In March 2022 there were considerable lab errors (see Appendix

D, Data Validation Memo) resulting in carbon tetrachloride not being detected in MW-20, even though a concentration of 2000 µg/L should have been expected. The concentrations at MW-20 have been strongly seasonal with an overall increasing trend 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. The concentrations at MW-18 fluctuate seasonally, but have been steadily decreasing since 2006, with a sharp drop in March 2021. The March 2022 value of 23 µg/L is an historic low value, and appears to indicate that the majority of the carbon tetrachloride plume has moved to the northwest. To the southwest, MW-22 had a concentration of 13 µg/L during Event 44. This well shows an overall decreasing trend in carbon tetrachloride concentrations since monitoring started in 2007. The data indicate that the extent of contamination may have 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 120 µg/L. This follows a record low of 32 µg/L in August 2021, and reverses 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 ten 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 (190 µg/L). Concentrations at MW-20 have shown a general increase in concentrations over time. At MW-18, which is located near the primary source area, chloroform concentrations have decreased considerably since August 2019. The March 2022 value of 3.7 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 2022 value of 4.7 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 is a new record. Concentrations to the southwest (MW-22), have shown a decrease in concentrations over time, with stable values from 2016 to March 2022. Delineation of concentrations is not complete further to the southwest beyond MW-22. Well MW-5, at the southern boundary of the Site, continues to have chloroform detections of greater than 1 µg/L.

Like carbon tetrachloride, chloroform is only found in well MW-27 in the Perched aquifer. Concentrations have been stable at just under 20 µg/L since March 2015.

Trichloroethene. Figure 9 shows contours of TCE concentrations in the Gravel Aquifer. TCE was detected in eleven 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 260 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 of 70 µg/L in March 2021. The March 2022 value for MW-15 was a new record low of 14 µg/L. TCE concentrations in MW-18 dropped sharply in March 2021 and reached a new historic low of 36 µg/L in March 2022. 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. 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. 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 was followed by the more normal value of 6.7 µg/L in March 2022. MW-101 (2.2 µg/L) remained higher than 1 µg/L as it has since August 2017. Concentrations at MW-102 have been generally decreasing since approximately 2006 and the March value of 4.1 µg/L is a new record low.

Tetrachloroethene. PCE concentration contours are shown on Figure 10. During Event 44, PCE was detected in six of the twenty-two wells in the Gravel Aquifer and none in the Perched Aquifer. The highest concentration (13 µg/L) was at MW-20, which follows a record high of 14 µg/L in March 2021. The value of 3 µg/L at MW-18 is an historic record low. It appears that PCE sources near MW-18 are being transported offsite 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, however the March 2022 value of 8.5 µg/L is the highest since sampling began and is more than a ten-fold increase over August 2021 (0.78 µg/L). PCE has remained non-detect since August 2012 at MW-23. PCE concentrations to the southwest, at MW-22 (0.85 J µg/L), 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 44, cis-1,2-DCE was detected in six of the twenty-two wells in the Gravel Aquifer in a three-lobed pattern similar to those found in the other contaminants. The highest concentration (5.5 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 (1.7 µg/L), which appears connected to the occurrence in MW-30, continue at stable values around 2 µg/L. As in March 2021, cis-1,2-DCE was not detected in source area well MW-18. It was detected at 0.46 J µg/L in MW-15 for the first time since March 2020. MW-17 and MW-100 both had low concentrations of cis-1,2-DCE for the second time since 2017. MW-20 (0.57 µg/L) has had periodic low but stable cis-1,2-DCE detections.

5.0 Summary

This section summarizes WE2's observations on the results of the 44th periodic sampling event conducted in March 2022

5.1 Groundwater Flow

- Groundwater levels were measured in the thirty-five existing wells and piezometers in March 2022. Groundwater depths ranged from 1.05 feet bgs at MW-9 to 19.17 feet bgs at MW-1. Groundwater elevations ranged from 206.83 feet above mean sea level (amsl) at MW-5 to 224.11 feet amsl at MW-10.
- The average March 2022 groundwater elevation (212.21 feet) was 6.98 feet higher than the average elevation during the previous dry season (August 2021, 205.23 feet) and 0.37 feet lower than the previous wet season (March 2021, 212.58 feet).
- Groundwater elevations from wells in the Perched Aquifer (Figure 3) measured during the March 2022 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 from MW-28.
- In the Gravel Aquifer, groundwater elevation data shows a broad potentiometric high centered on monitoring wells MW-102, MW-16 and MW-25, from which flow is radially away in all directions. The steepest flow gradient is from this high toward wells MW-5 and MW-31 at the south end of the site (Figure 4).

5.2 Groundwater Quality

- Ten VOCs were detected during the March 2022 sampling event: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), dichlorobromomethane, n-butylbenzene, naphthalene, tetrachloroethene (PCE), trans-1,2-dichloroethene (trans-1,2-DCE), 1,2,4-trichlorobenzene, and trichloroethene (TCE).
- Detections of carbon tetrachloride (8), chloroform (11), cis-1,2-DCE (1), PCE (2), and TCE (11) in groundwater exceeded minimum screening criteria.

5.3 Contaminant Trends

There are detections of VOCs at concentrations greater than screening criteria near the site boundary and notable increases in VOC concentrations in some wells. In particular, VOC concentrations have increased substantially in the Gravel Aquifer in the northwest corner of the site.

- Carbon tetrachloride concentrations dropped from their recent record high values in well MW-24, but are still part of a long-term increase at the northwest and north boundaries of the Site indicating plume movement beyond the property line. Lab error is suspected for a non-detect of carbon tetrachloride in well MW-20.

Chloroform concentrations in these wells mirror those of carbon tetrachloride and indicate some natural biological dechlorination. TCE trends in both wells are similar, with well MW-20 showing strong seasonal variations.

Concentrations in several wells are stable or decreasing.

- In well MW-22, located at the edge of the Site southwest of the Building 17 leach field source area, concentrations of chloroform and carbon tetrachloride have stabilized since approximately August 2016 after declining sharply from high values in 2007, when sampling began. Concentrations of TCE and PCE continue to decrease. This likely means that that the plume has largely left the Site.
- MW-15 TCE concentrations have sharply decreased from a record high spike of 3100 µg/l in March 2019 to a record low of 14 µg/l in March 2022. Concentrations of carbon tetrachloride and chloroform have steadily decreased since 2006 and both reached new record low concentrations in March 2022. The decline in contaminant concentrations in MW-15 and concurrent increases at the northwest corner of the Site appear to indicate that the majority of the contaminants have migrated away from the 1992 drum spill.
- MW-18 is located near the solvent disposal sump source area and has historically been the well with the highest contaminant concentrations on the Site. Carbon tetrachloride, chloroform, TCE, and PCE have been declining and strongly seasonal in MW-18 since it was first sampled in 2006. The March 2021 through March 2022 events have shown sharp decreases for Carbon tetrachloride, chloroform, TCE, and PCE, with new record lows in March 2022. These appear to show that most of the historic contamination has migrated away from MW-18 toward wells MW-20 and MW-24 in the northwest corner of the Site.
- In wells to the east of the 1992 drum spill source area near MW-15, TCE concentrations at wells MW-17 and MW-100 decreased from a spike in August 2021, and TCE was detected in three of four offsite wells.

6.0 References

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.

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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

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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 44 Work Plan Memo. February 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 44
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	3/16/22	228.10	19.17	208.93	-	-	-	-	-	-
MW-3	3/15/22	219.61	8.67	210.94	6.54	15.4	0.212	2.43	6.40	125.3
MW-4	3/15/22	218.28	1.40	216.88	6.63	13.6	0.373	4.38	1.14	108.7
MW-5	3/15/22	217.08	10.25	206.83	6.93	12.9	0.363	11.86	1.03	80.6
MW-6	3/17/22	219.48	12.20	207.28	5.82	12.1	0.098	0.37	7.98	118.3
MW-7	3/17/22	216.85	1.15	215.70	6.10	11.6	0.294	0.15	4.21	125.9
MW-8	3/16/22	220.23	7.73	212.50	6.21	13.9	0.158	0.18	1.37	124.1
MW-9	3/16/22	224.00	1.05	222.95	5.44	11.8	0.081	1.76	0.83	176.8
MW-10	3/16/22	225.41	1.30	224.11	5.85	13.0	0.123	11.21	1.23	105.8
MW-11	3/16/22	227.73	5.75	221.98	5.49	12.6	0.082	12.48	6.99	165.3
MW-13	3/16/22	223.31	9.75	213.56	6.32	14.5	0.173	2.40	2.72	101.2
MW-14	3/16/22	224.77	14.30	210.47	6.43	16.2	0.142	9.61	7.58	107.2
MW-15	3/15/22	222.96	12.05	210.91	6.45	15.5	0.200	6.01	5.69	91.0
MW-16	3/17/22	217.57	5.90	211.67	6.23	12.5	0.256	12.42	5.21	97.3
MW-17	3/15/22	218.84	7.89	210.95	7.05	15.5	0.267	0.24	1.52	93.8
MW-18	3/16/22	224.00	13.13	210.87	6.92	16.6	0.379	7.95	2.62	94.0
MW-19	3/16/22	224.20	13.60	210.60	6.29	14.2	0.169	3.50	0.20	91.7
MW-20	3/16/22	225.62	15.80	209.82	6.94	14.5	0.423	10.11	0.90	57.9
MW-21	3/17/22	216.60	5.55	211.05	-	-	-	-	-	-
MW-22	3/17/22	216.57	5.70	210.87	6.81	12.6	0.293	0.44	0.16	20.5
MW-23	3/16/22	227.87	18.95	208.92	7.30	13.9	0.267	0.09	6.63	71.9
MW-24	3/16/22	227.49	18.30	209.19	7.10	13.6	0.311	5.20	1.61	116.0
MW-25	3/16/22	220.38	8.65	211.73	6.41	14.4	0.178	0.09	1.60	120.8
MW-26	3/16/22	220.63	10.30	210.33	6.61	15.4	0.199	8.41	3.99	96.3
MW-27	3/15/22	222.80	8.55	214.25	6.76	13.7	0.261	0.05	6.26	54.5
MW-28	3/16/22	223.52	3.20	220.32	6.79	13.8	0.099	10.09	4.99	100.2
MW-29	3/15/22	217.93	7.18	210.75	7.08	16.0	0.508	8.84	0.07	-62.3
MW-30	3/17/22	219.26	11.20	208.06	6.98	12.8	0.329	8.90	0.23	-88.6
MW-31	3/15/22	216.78	9.35	207.43	7.20	13.0	0.393	7.76	0.05	-126.3
MW-100	3/17/22	218.37	7.30	211.07	6.87	14.9	0.512	6.73	0.61	44.7
MW-101	3/17/22	218.54	7.50	211.04	7.08	16.5	0.364	9.55	3.11	44.9
MW-102	3/17/22	217.64	6.40	211.24	7.18	13.6	0.306	8.87	1.82	50.4
MW-103	3/17/22	216.51	5.60	210.91	6.92	14.0	0.352	0.40	1.83	62.1
PZ-1A	3/15/22	220.10	8.11	211.99	-	-	-	-	-	-
PZ-1B	3/15/22	220.05	8.84	211.21	-	-	-	-	-	-

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

Table 3
Current and Historical Groundwater Elevations

Groundwater Monitoring Event 44
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)															
		3/17/2022	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	8/21/2014	2/15/2014
MW-1	228.10	19.17	208.93	206.32	209.64	208.82	207.36	208.90	207.20	208.93	207.38	210.45	207.18	209.98	207.37	209.05	207.70	208.02
MW-3	219.61	8.67	210.94	205.77	211.59	210.50	207.96	210.44	207.01	210.94	206.98	211.56	207.44	211.03	207.76	210.24	208.27	209.78
MW-4	218.28	1.40	216.88	209.28	216.54	216.25	210.84	215.55	210.10	216.88	210.63	216.46	209.85	215.86	210.28	216.57	212.27	216.55
MW-5	217.08	10.25	206.83	199.32	207.62	206.53	201.28	206.63	201.26	206.83	200.71	207.75	200.41	206.59	200.08	205.95	200.93	207.27
MW-6	219.48	12.20	207.28	199.41	207.36	205.89	200.18	205.97	200.03	207.28	199.93	207.05	199.48	205.96	199.40	205.64	200.17	206.37
MW-7	216.85	1.15	215.70	206.37	215.76	215.40	208.10	214.85	207.75	215.70	208.02	215.68	206.90	215.61	206.39	215.25	209.84	215.41
MW-8	220.23	7.73	212.50	204.47	213.25	212.51	208.71	212.45	207.25	212.50	207.98	213.73	207.61	213.34	207.78	213.13	209.28	213.01
MW-9	224.00	1.05	222.95	209.39	222.32	221.63	211.98	221.53	210.78	222.95	213.00	222.45	209.63	221.88	210.39	222.19	211.92	224.00
MW-10	225.41	1.30	224.11	212.36	223.43	223.21	213.57	222.68	213.60	224.11	214.15	223.56	212.28	223.18	213.76	223.71	215.79	224.91
MW-11	227.73	5.75	221.98	212.29	221.19	220.19	213.08	220.63	212.58	221.98	213.42	221.30	212.42	220.57	212.82	221.13	214.43	222.86
MW-13	223.31	9.75	213.56	205.94	213.99	213.03	209.66	212.90	207.96	213.56	208.01	214.51	208.58	214.19	209.26	213.23	209.65	210.99
MW-14	224.77	14.30	210.47	210.52	212.06	210.00	207.92	209.99	207.44	210.47	207.52	211.52	207.54	211.14	207.90	209.89	208.26	Repeat
MW-15	222.96	12.05	210.91	203.36	211.58	210.63	207.94	210.37	206.24	210.91	206.51	211.65	207.41	211.08	207.71	210.53	208.31	210.01
MW-16	217.57	5.90	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	205.89	211.33
MW-17	218.84	7.89	210.95	204.93	211.50	210.57	207.91	210.49	206.42	210.95	206.74	211.66	207.41	211.39	207.64	213.46	208.28	210.10
MW-18	224.00	13.13	210.87	203.65	211.58	210.51	207.88	210.28	206.42	210.87	206.51	211.77	207.25	211.11	207.70	210.33	208.30	209.65
MW-19	224.20	13.60	210.60	203.26	211.14	210.30	207.53	210.20	206.22	210.60	206.65	212.00	206.93	210.63	207.18	210.30	208.09	209.96
MW-20	225.62	15.80	209.82	201.87	210.38	209.54	207.34	209.57	206.75	209.82	207.09	211.21	206.94	210.52	207.20	209.64	207.69	208.67
MW-21	216.60	5.55	211.05	202.40	211.18	210.53	204.78	210.45	204.43	211.05	204.26	211.25	203.82	210.60	203.67	210.35	204.69	210.46
MW-22	216.57	5.70	210.87	202.43	211.19	210.12	204.50	210.17	204.25	210.87	204.02	210.98	203.50	210.31	203.31	210.08	204.65	210.37
MW-23	227.87	18.95	208.92	206.31	209.64	208.87	207.32	208.87	207.17	208.92	207.37	210.45	207.19	209.98	207.39	209.01	207.71	208.02
MW-24	227.49	18.30	209.19	206.18	209.71	208.94	207.29	208.89	207.13	209.19	207.34	210.70	207.17	209.87	207.28	209.21	207.54	208.28
MW-25	220.38	8.65	211.73	202.23	212.30	210.98	207.50	210.68	206.05	211.73	206.48	212.28	206.53	211.44	206.86	211.41	207.86	211.43
MW-26	220.63	10.30	210.33	206.28	211.72	209.08	208.09	209.16	207.58	210.33	207.51	210.85	206.88	210.46	207.73	209.72	208.36	208.60
MW-27	222.80	8.55	214.25	208.43	214.49	213.62	209.95	213.78	208.57	214.25	209.02	214.55	208.48	214.05	208.94	213.75	210.35	214.17
MW-28	223.52	3.20	220.32	216.90	219.86	219.47	218.06	219.45	217.40	220.32	217.55	220.32	216.91	219.92	217.37	220.82	218.06	222.92
MW-29	217.93	7.18	210.75	202.37	211.24	210.43	207.60	210.31	206.03	210.75	205.38	211.63	206.93	210.98	207.75	210.91	208.46	209.95
MW-30	219.26	11.20	208.06	201.22	208.19	206.84	201.48	206.75	202.16	208.06	201.68	207.76	200.55	206.88	200.34	206.29	201.19	206.95
MW-31	216.78	9.35	207.43	200.50	207.87	206.76	201.09	206.78	201.34	207.43	200.66	207.80	200.51	206.81	200.42	206.38	201.24	206.97
MW-100	218.37	7.30	211.07	204.34	211.51	210.62	207.82	210.49	206.47	211.07	207.02	211.69	207.06	210.95	207.62	210.51	208.13	210.56
MW-101	218.54	7.50	211.04	203.47	211.48	210.64	207.72	210.46	206.14	211.04	206.84	211.72	206.58	210.92	207.53	210.54	208.07	210.67
MW-102	217.64	6.40	211.24	205.26	211.58	210.62	207.79	210.47	206.76	211.24	207.16	211.66	207.29	210.92	207.56	210.48	208.04	210.68
MW-103	216.51	5.60	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	207.96	210.61
PZ-1A	220.10	8.11	211.99	203.51	211.62	210.68	207.95	210.37	206.30	211.99	207.00	211.78	207.48	207.09	207.64	197.05	208.29	210.55
PZ-1B	220.05	8.84	211.21	203.55	211.69	210.78	207.86	210.40	206.41	211.21	207.13	211.87	207.68	207.13	207.68	197.00	207.99	210.60

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 44
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)																	
		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	02/27/06	09/26/05
MW-1	228.10	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	208.92	207.00
MW-3	219.61	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	210.42	207.49
MW-4	218.28	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	215.68	210.78
MW-5	217.08	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	206.22	200.77
MW-6	219.48	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	204.17	197.77
MW-7	216.85	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	214.90	207.60
MW-8	220.23	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	218.53	216.38
MW-9	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	211.33	207.04
MW-10	225.41	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	221.36	212.45
MW-11	227.73	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	220.43	215.46
MW-13	223.31	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	212.67	208.61
MW-14	224.77	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	210.09	207.48
MW-15	222.96	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	210.50	207.47
MW-16	217.57	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	210.52	204.90
MW-17	218.84	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	210.49	207.41
MW-18	224.00	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	210.15	NA
MW-19	224.20	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	210.45	NA
MW-20	225.62	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	209.47	NA
MW-21	216.60	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	209.86	NA
MW-22	216.57	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	NA	NA
MW-23	227.87	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	NA	NA
MW-24	227.49	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	NA	NA
MW-25	220.38	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	NA	NA
MW-26	220.63	207.63	209.47	208.26	210.51	208.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	208.85	213.67	211.62	211.29	209.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	212.92	220.00	217.72	220.65	217.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	207.74	210.35	208.49	210.80	206.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	201.07	206.42	202.22	208.70	203.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	201.31	206.83	202.47	208.89	202.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	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	NA	NA
MW-101	218.54	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	NA	NA
MW-102	217.64	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	NA	NA
MW-103	216.51	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	NA	NA
PZ-1A	220.10	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	218.70	NA
PZ-1B	220.05	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	210.64	NA

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 44
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)										
		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	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	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	215.54	212.63	214.85	216.04	211.68	209.86	214.41	214.52	209.65	211.38	213.88
MW-5	217.08	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	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	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	218.38	217.42	218.22	218.99	218.52	216.93	218.19	218.82	217.05	217.26	219.53
MW-9	224.00	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	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	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	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	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	209.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	217.57	209.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17	218.84	209.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18	224.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19	224.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20	225.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21	216.60	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
MW-23	227.87	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
MW-25	220.38	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
MW-27	222.80	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
MW-29	217.93	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
MW-31	216.78	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
MW-101	218.54	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
MW-103	216.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1A	220.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1B	220.05	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 44
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	224.11	2.13	500.9	4.25E-03
MW-11		221.98			
MW-10 to MW-8					
MW-10	Perched	224.11	11.61	744.9	1.56E-02
MW-8		212.50			
MW-10 to MW-4					
MW-10	Perched	224.11	7.23	1205.8	6.00E-03
MW-4		216.88			
MW-28 to MW-8					
MW-28	Perched	220.32	7.82	289.4	2.70E-02
MW-8		212.50			
MW-16 to MW-6					
MW-16	Gravel	211.67	4.39	463.6	9.47E-03
MW-6		207.28			
MW-16 to MW-31					
MW-16	Gravel	211.67	4.24	661.4	6.41E-03
MW-31		207.43			
MW-23 to MW-24					
MW-23	Gravel	208.92	-0.27	321.5	-8.40E-04
MW-24		209.19			
MW-25 to MW-23					
MW-25	Gravel	211.73	2.81	1320.8	2.13E-03
MW-23		208.92			

Table 5
Detection Summary

Groundwater Monitoring Event 44
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	8/31	8/31	140	MW-24	0.50 JH
Chloroform	0.19	11/31	11/31	190 E	MW-20	0.58 JH
cis-1,2-Dichloroethene	3.6	6/31	1/31	5.5	MW-30	0.46 J
Dichlorobromomethane	100	1/31	0/31	0.36 J	MW-14	0.36 J
n-Butylbenzene	100	1/31	0/31	2.8 H	MW-27	2.8 H
Naphthalene	0.14	1/31	1/31	0.96 J	MW-3	0.96 J
Tetrachloroethene (PCE)	4.1	6/31	2/31	13	MW-20	0.43 JH
trans-1,2-Dichloroethene	36	1/31	0/31	0.47 J	MW-30	0.47 J
1,2,4-Trichlorobenzene	0.40	1/31	1/31	0.52 J	MW-3	0.52 J
Trichloroethene (TCE)	0.28	11/31	11/31	260 E	MW-20	1.5 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

E = Estimated concentration, value exceeded the calibration limit.

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 6
Analytical Results for Detected Constituents - Volatile Organics

Groundwater Monitoring Event 44
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Volatile Organic Concentrations									
			Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichloro-bromomethane	n-Butylbenzene	Naphthalene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	1,2,4-Trichlorobenzene	Trichloroethene (TCE)
MW-3	DUP1	03/15/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.44 H U	0.93 H U	1.0 U	0.39 H U	0.33 H U	1.0 U
MW-3	MW3	03/15/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	**0.96 J**	0.41 U	0.39 U	**0.52J**	0.26 U
MW-4	MW4	03/15/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-5	MW5	03/15/2022	0.30 U	**1.1**	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-6	MW6	03/17/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-7	MW7	03/17/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-8	MW8	03/16/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 H U	0.26 U
MW-9	MW9	03/16/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 H U	0.26 U
MW-10	MW10	03/16/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-11	MW11	03/16/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 H U	0.26 U
MW-13	MW13	03/15/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.44 H U	0.93 H U	1.0 U	1.0 U	0.33 H U	1.0 U
MW-14	MW14	03/16/2022	0.30 U	**4.7**	0.35 U	**0.36 J**	0.44 U	0.93 U	0.41 U	0.39 U	0.33 H U	0.26 U
MW-15	MW15	03/15/2022	**3.5 H**	**1.2 H**	**0.46 J H**	1.0 U	0.44 H U	0.93 H U	**0.43 J H**	1.0 U	0.33 H U	**14 H**
MW-16	MW16	03/17/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-17	MW17	03/15/2022	**0.53 J H**	**0.58 J H**	**0.82 J H**	1.0 U	0.44 H U	0.93 H U	**0.44 J H**	1.0 U	0.33 H U	**8.3 H**
MW-18	MW18	03/16/2022	**23 H**	**3.7 H**	0.35 U	0.29 U	0.44 U	0.93 U	**3.0 H**	0.39 U	0.33 U	**36 H**
MW-19	MW19	03/16/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-20	MW20	03/16/2022	0.30 U	**190 E**	**0.57 J**	0.29 U	0.44 U	0.93 U	**13**	0.39 U	0.33 U	**260 E**
MW-22	MW22	03/17/2022	**13 H**	**3.3**	**1.7**	0.29 U	0.44 U	0.93 U	**0.85 J**	0.39 U	0.33 U	**5.5 H**
MW-23	MW23	03/16/2022	**2.0 H**	**4.6 H**	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	**1.5 H**
MW-24	MW24	03/16/2022	**140 H**	**27 H**	0.35 U	0.29 U	0.44 U	0.93 U	**8.5 J H**	0.39 U	0.33 U	**69 H**
MW-25	MW25	03/16/2022	**0.50 J H**	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-26	MW26	03/16/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-27	MW27	03/15/2022	**120 H E**	**19 H**	0.35 U	0.29 H U	**2.8 H**	0.93 H U	0.41 H U	0.39 H U	0.33 H U	0.26 H U
MW-28	MW28	03/16/2022	0.30 U	**1.2 H**	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
MW-29	MW29	03/15/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.44 H U	0.93 H U	1.0 U	1.0 U	0.33 H U	1.0 U
MW-30	MW30	03/17/2022	0.30 U	0.26 U	**5.5**	0.29 U	0.44 U	0.93 U	0.41 U	**0.47 J**	0.33 U	0.26 U
MW-31	MW31	03/15/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.44 H U	0.93 H U	1.0 U	1.0 U	0.33 H U	1.0 U
MW-100	MW100	03/17/2022	0.30 U	0.26 U	**0.46 J**	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	**6.7 H**
MW-101	MW101	03/17/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	**2.2 H**
MW-102	DUP2	03/17/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	**4.0 H**
MW-102	MW102	03/17/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	**4.1 H**
MW-103	MW103	03/17/2022	0.30 U	0.26 U	0.35 U	0.29 U	0.44 U	0.93 U	0.41 U	0.39 U	0.33 U	0.26 U
Minimum Applicable Screening Criteria			**0.41**	**0.19**	**3.6**	**100**	**100**	**0.14**	**4.1**	**36**	**0.4**	**0.28**

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
E = Estimated, concentration exceeds calibration.

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

Table 7
Applicable Screening Criteria

Groundwater Monitoring Event 44
NETL Albany, Albany, OR

Analyte	Minimum Criteria	Oregon - Groundwater MMLs[1]	Oregon - Hot Spot Tables[2]	Oregon - DEQ RBCs [3]	EPA - Primary Drinking Water MCLs[4]	EPA - Secondary Drinking Water MCLs[4]	EPA - Regional Screening Levels[5]
Volatile Organics (µg/L)							
1,1,1,2-Tetrachloroethane	0.57	---	---	---	---	---	0.57
1,1,1-Trichloroethane	200	200	200	9,100	200	---	800
1,1,2,2-Tetrachloroethane	0.076	---	---	---	---	---	0.076
1,1,2-Trichloroethane	0.041	---	5	0.23	5	---	0.041
1,1-Dichloroethane	2.3	---	---	2.3	---	---	2.7
1,1-Dichloroethene	7	7	7	340	7	---	28
1,1-Dichloropropene	---	---	---	---	---	---	---
1,2,3-Trichlorobenzene	0.70	---	---	---	---	---	0.70
1,2,3-Trichloropropane	0.00075	---	---	---	---	---	0.00075
1,2,4-Trichlorobenzene	0.40	---	70	---	70	---	0.40
1,2,4-Trimethylbenzene	1.5	---	---	54	---	---	1.5
1,2-Dibromo-3-chloropropane	0.00033	---	0.2	---	0.2	---	0.00033
1,2-Dichlorobenzene	30	---	600	370	600	---	30
1,2-Dichloroethane (EDC)	0.14	5	5	0.14	5	---	0.17
1,2-Dichloropropane	0.44	---	5	---	5	---	0.44
1,3,5-Trimethylbenzene	12	---	---	50	---	---	12
1,3-Dichlorobenzene	---	---	---	---	---	---	---
1,3-Dichloropropane	37	---	---	---	---	---	37
1,4-Dichlorobenzene	0.42	75	75	0.42	75	---	0.48
2,2-Dichloropropane	---	---	---	---	---	---	---
2-Chlorotoluene	25	---	---	---	---	---	25
4-Chlorotoluene	24	---	---	---	---	---	24
4-Isopropyltoluene	---	---	---	---	---	---	---
Benzene	0.39	5	5	0.39	5	---	0.45
Bromobenzene	6.2	---	---	---	---	---	6.2
Bromoform (THM)	2.7	100 (total THM)	80 (total THM)	2.7	80 (total THM)	---	9.2
Bromomethane	0.75	---	---	8.7	---	---	0.75
Carbon Tetrachloride	0.41	5	5	0.41	5	---	0.45
Chlorobenzene	7.8	---	100	91	100	---	7.8
Chlorobromomethane	---	---	---	---	---	---	---
Chlorodibromomethane (THM)	100	100 (total THM)	---	0.14	---	---	---
Chloroethane	21,000	---	---	21,000	---	---	--
Chloroform (THM)	0.19	100 (total THM)	80 (total THM)	0.19	80 (total THM)	---	0.22
Chloromethane	19	---	---	190	---	---	19
cis-1,2-Dichloroethene	3.6	---	70	73	70	---	3.6
cis-1,3-Dichloropropene	--	---	---	---	---	---	--
Dibromomethane	0.80	---	---	---	---	---	0.80
Dichlorobromomethane (THM)	100	100 (total THM)	---	---	---	---	---
Dichlorodifluoromethane	20	---	---	---	---	---	20
Ethylbenzene	1.5	---	700	1.4	700	---	1.5
Ethylene Dibromide	0.00005	---	0.00005	---	0.00005	---	---
Hexachlorobutadiene	0.30	---	---	---	---	---	0.30
Isopropylbenzene (cumene)	45	---	---	680	---	---	45
Methylene chloride	5	---	5	---	5	---	11
m,p-Xylene	19	---	---	---	---	---	19
Methyl tert-butyl ether (MTBE)	12	---	---	12	---	---	14
Naphthalene	0.14	---	---	0.14	---	---	0.17
n-Butylbenzene	100	---	---	---	---	---	100
n-Propylbenzene	--	---	---	---	---	---	--
o-Xylene	19	---	---	---	---	---	19
sec-Butylbenzene	200	---	---	---	---	---	200
Styrene	100	---	100	1,600	100	---	120
tert-Butylbenzene	69	---	---	---	---	---	69
Tetrachloroethene (PCE)	4.1	---	5	11	5	---	4.1
Toluene	110	---	1,000	2,300	1,000	---	110
trans-1,2-Dichloroethene	36	---	100	110	100	---	36
trans-1,3-Dichloropropene	--	---	---	---	---	---	--
Trichloroethene (TCE)	0.28	5	5	0.43	5	---	0.28
Trichlorofluoromethane	110	---	---	1,300	---	---	110
Vinyl chloride	0.019	2	2	0.025	2	---	0.019

Notes:

--- = No criteria available

µg/L = micrograms per liter

THM = Trihalomethanes, including a group of disinfection byproducts (chloroform, bromodichloromethane, dibromochloromethane, & bromoform).

[1] The Oregon Groundwater Maximum Measurement Levels (MMLs) are provided in Oregon Administrative Rules (OAR) 340-40-020, last updated on November 14, 1997.

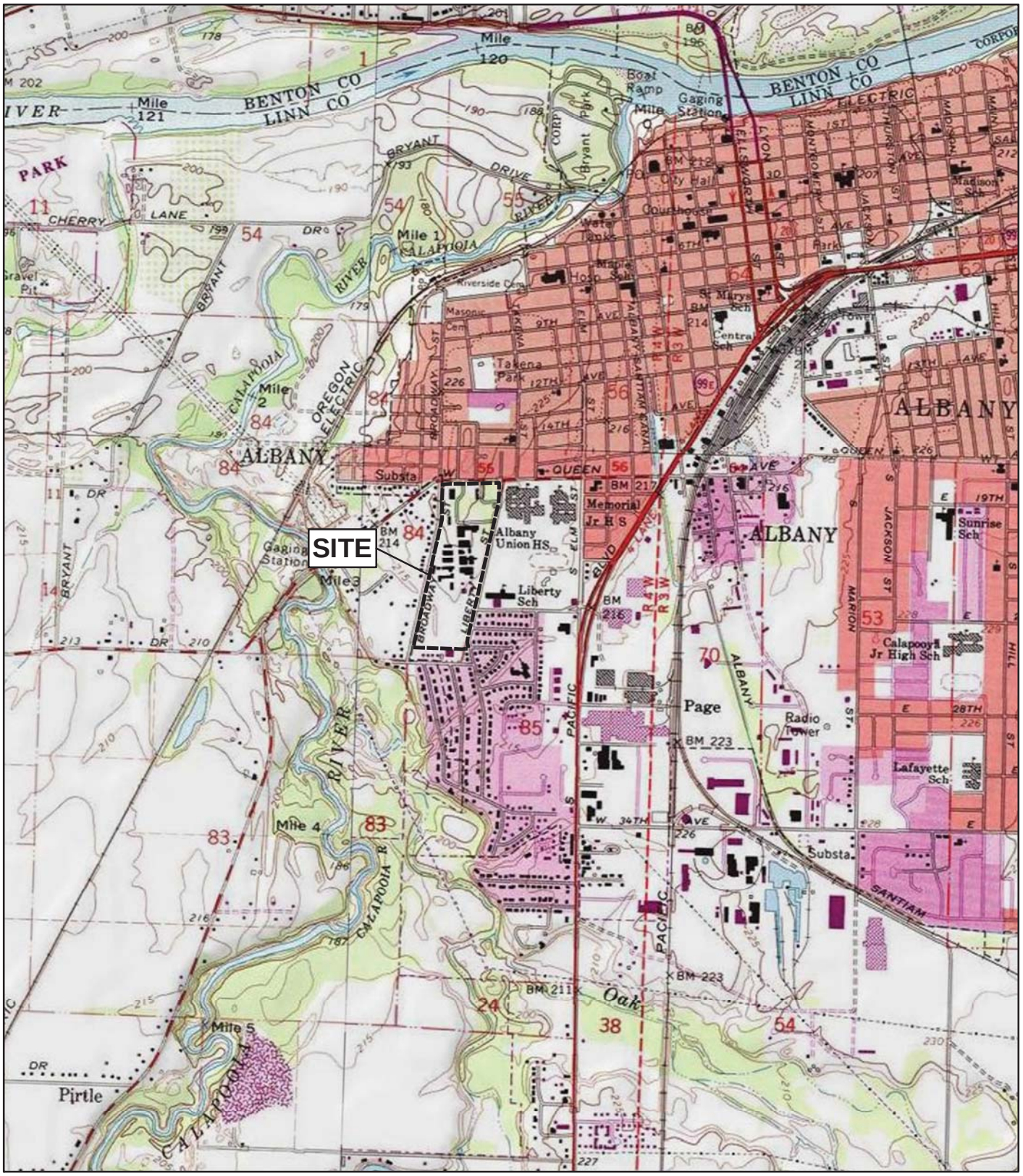
2 The Oregon Hot Spot Tables are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are revised to reflect Oregon DEQ hierarchy (MCL/MML, RBC, then EPA Regional Screening Levels for Regions 3, 6 and 9). Hot Spot values were modified in 2015 to reflect updates to EPA Regional Screening Levels and subsequently revised Oregon RBDM values.

3 The Oregon Petroleum Risk-Based Concentrations are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are from Appendix A using Residential Groundwater - Ingestion & Inhalation from Tapwater last updated on November, 2015.

4 The EPA Primary and Secondary Maximum Contaminant Levels (MCLs) are provided by the U.S. Environmental Protection Agency, last updated on June 2013
[see http://www.epa.gov/safewater/contaminants/index.html].

5 The EPA Regional Risk-Based Screening Values for Region 3, 6 and 9, provided by the U.S. Environmental Protection Agency, last updated on November 2017 [see http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm]. Screening levels used are via the pathway of exposure to tapwater.

FIGURES



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1,000 0 1,000 2,000

SCALE IN FEET

SITE VICINITY

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

MARCH 2022

FIGURE 1

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



Sources: NAIP, 2021.
Albany GIS, 2010.

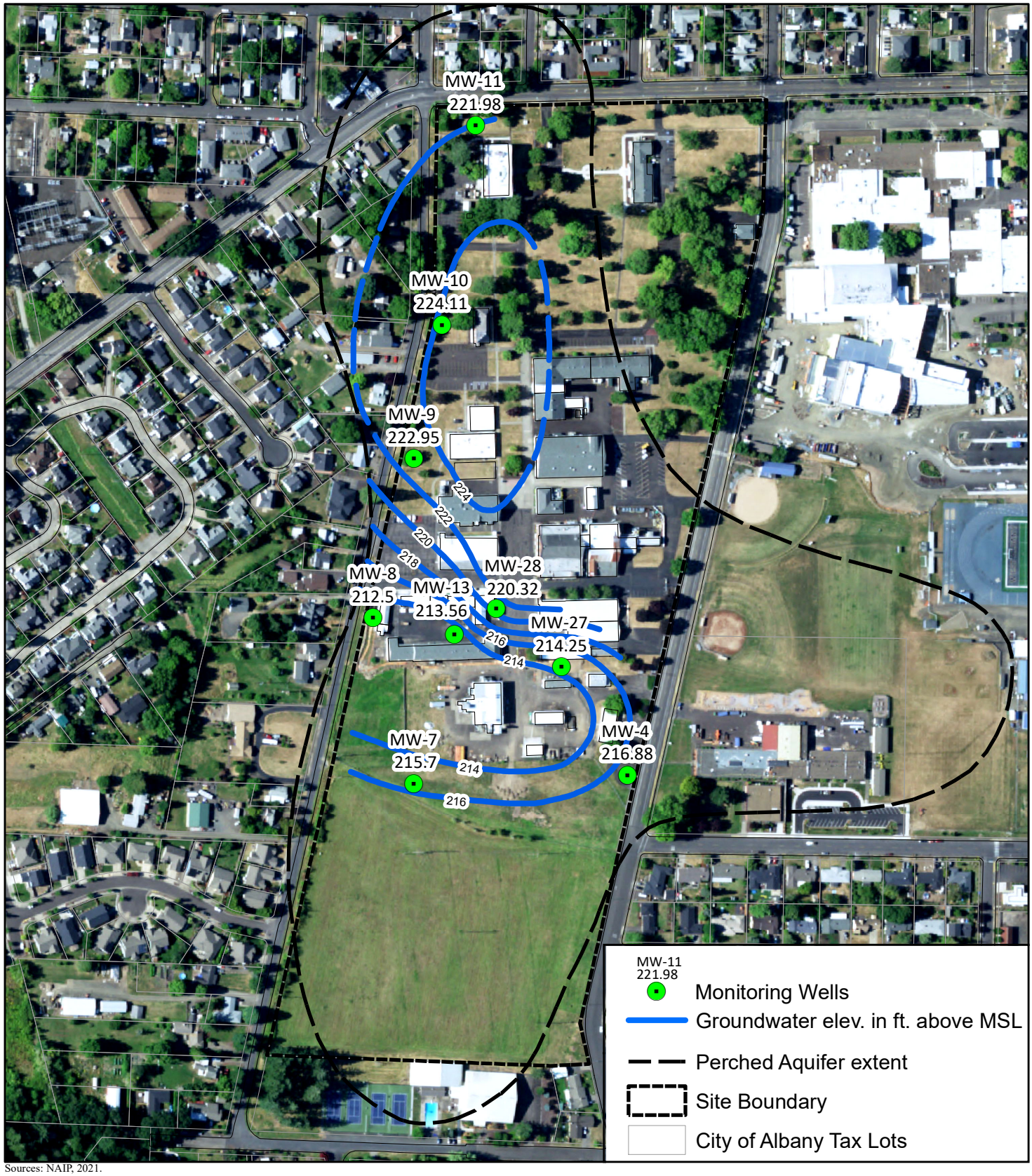
150 75 0 150 300
Feet

SITE MAP

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 2



Sources: NAIP, 2021.
Albany GIS, 2010.

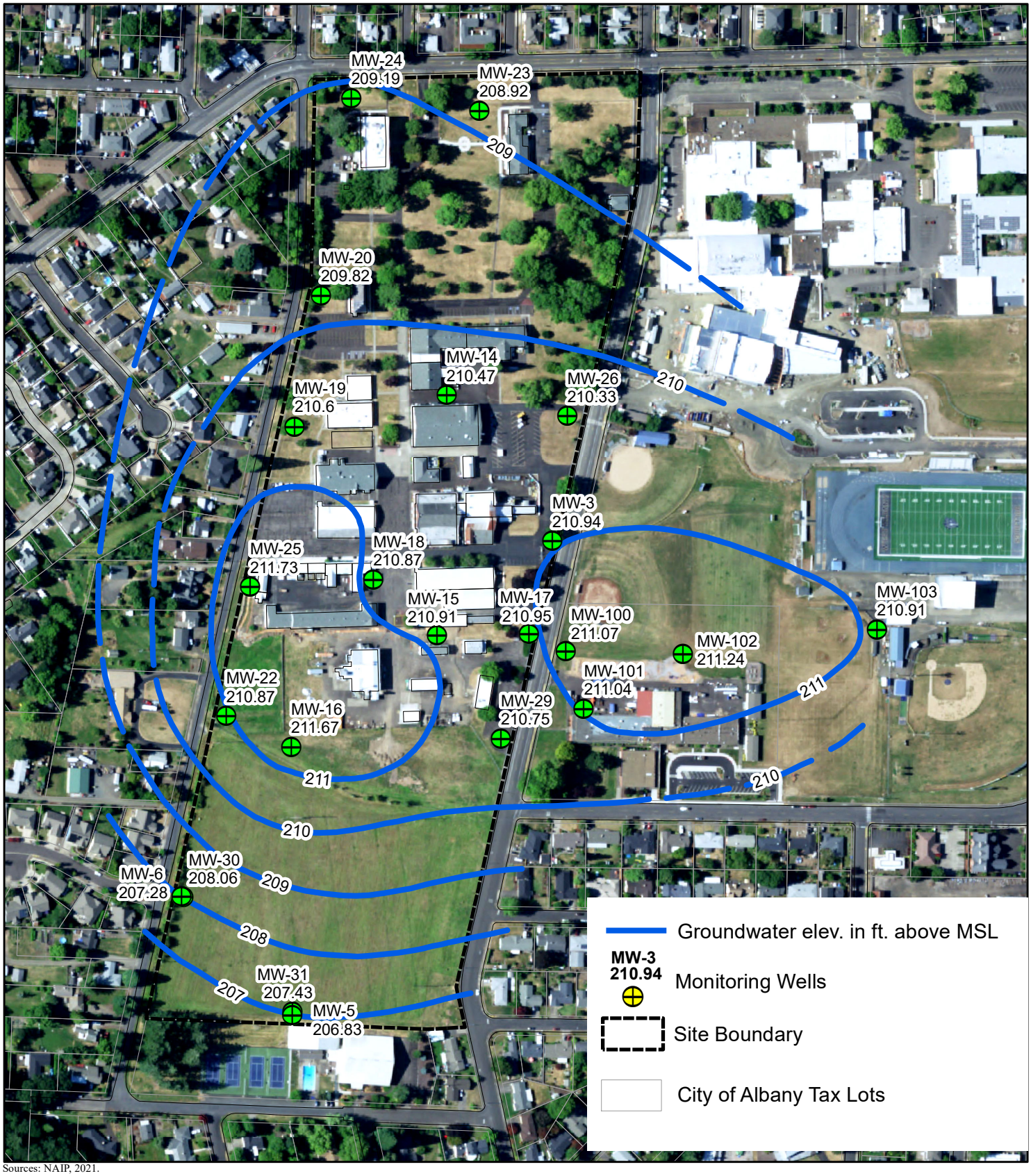
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Feet

GROUNDWATER ELEVATION CONTOURS IN THE PERCHED AQUIFER, MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 3



Sources: NAIP, 2021.
Albany GIS, 2010.

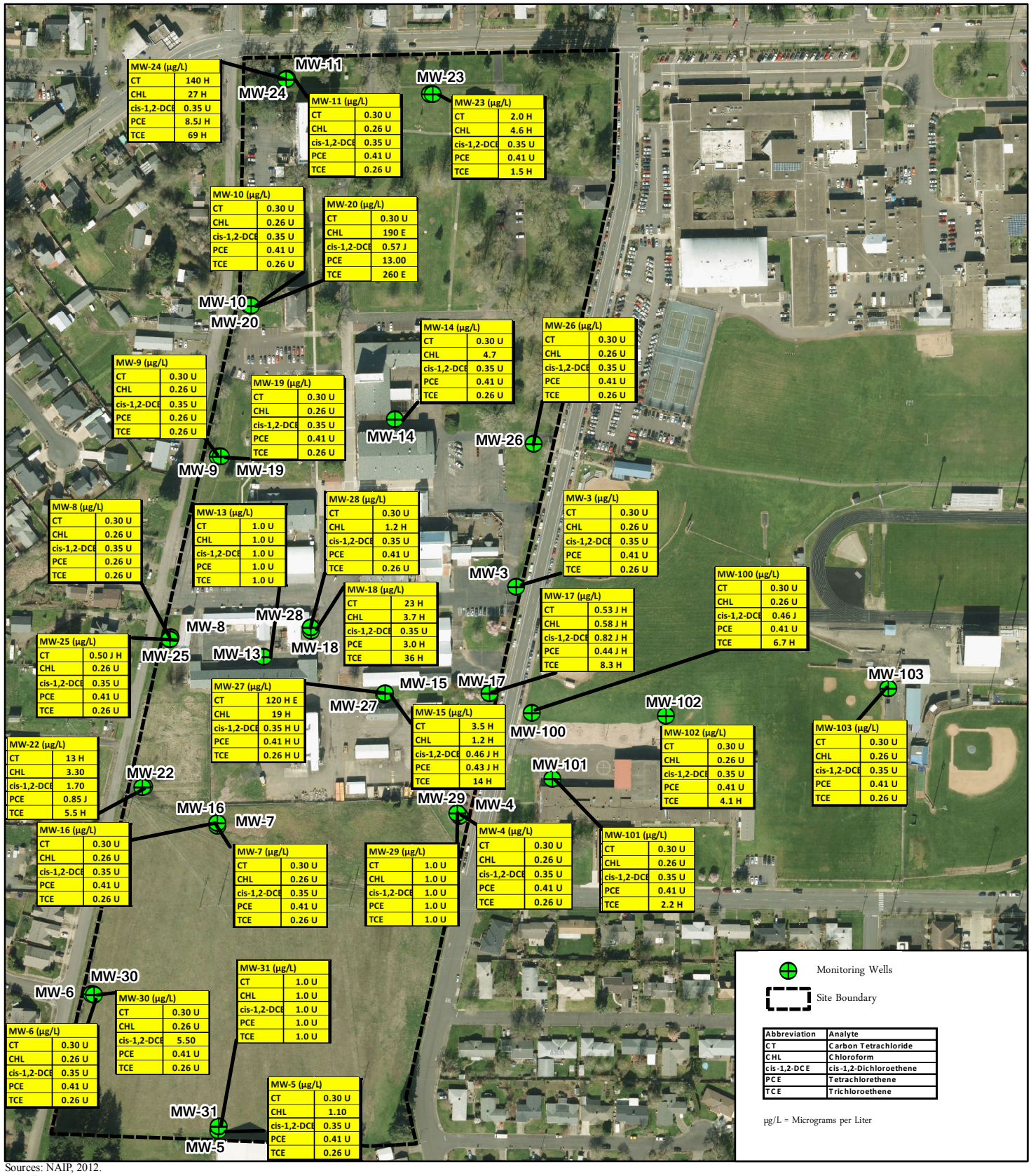
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Feet

GROUNDWATER ELEVATION CONTOURS IN THE GRAVEL AQUIFER, MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 4



Sources: NAIP, 2012.
Albany GIS, 2007.

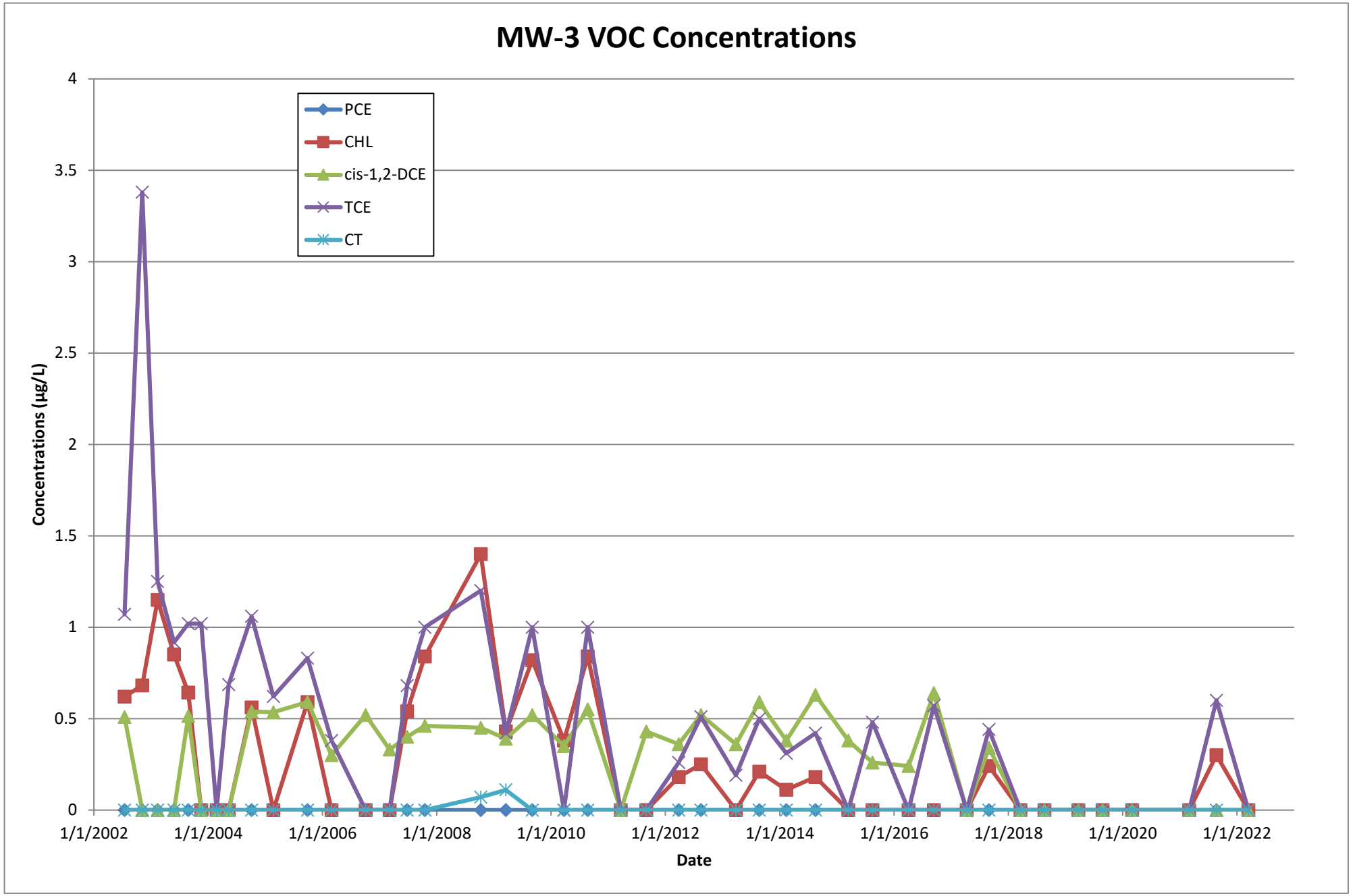
150 75 0 150 300
Feet

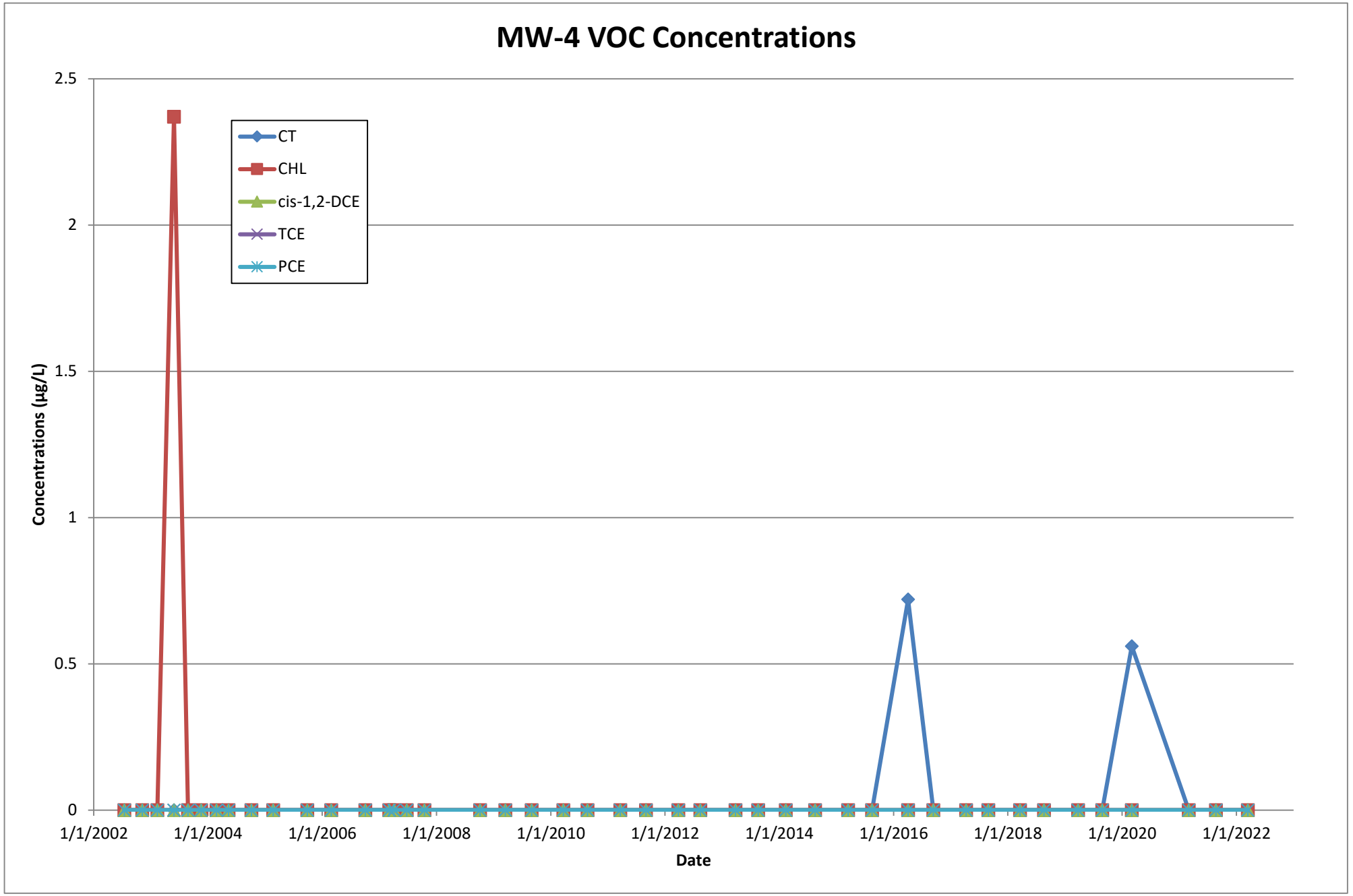
GROUNDWATER ANALYTICAL RESULTS MARCH 2022

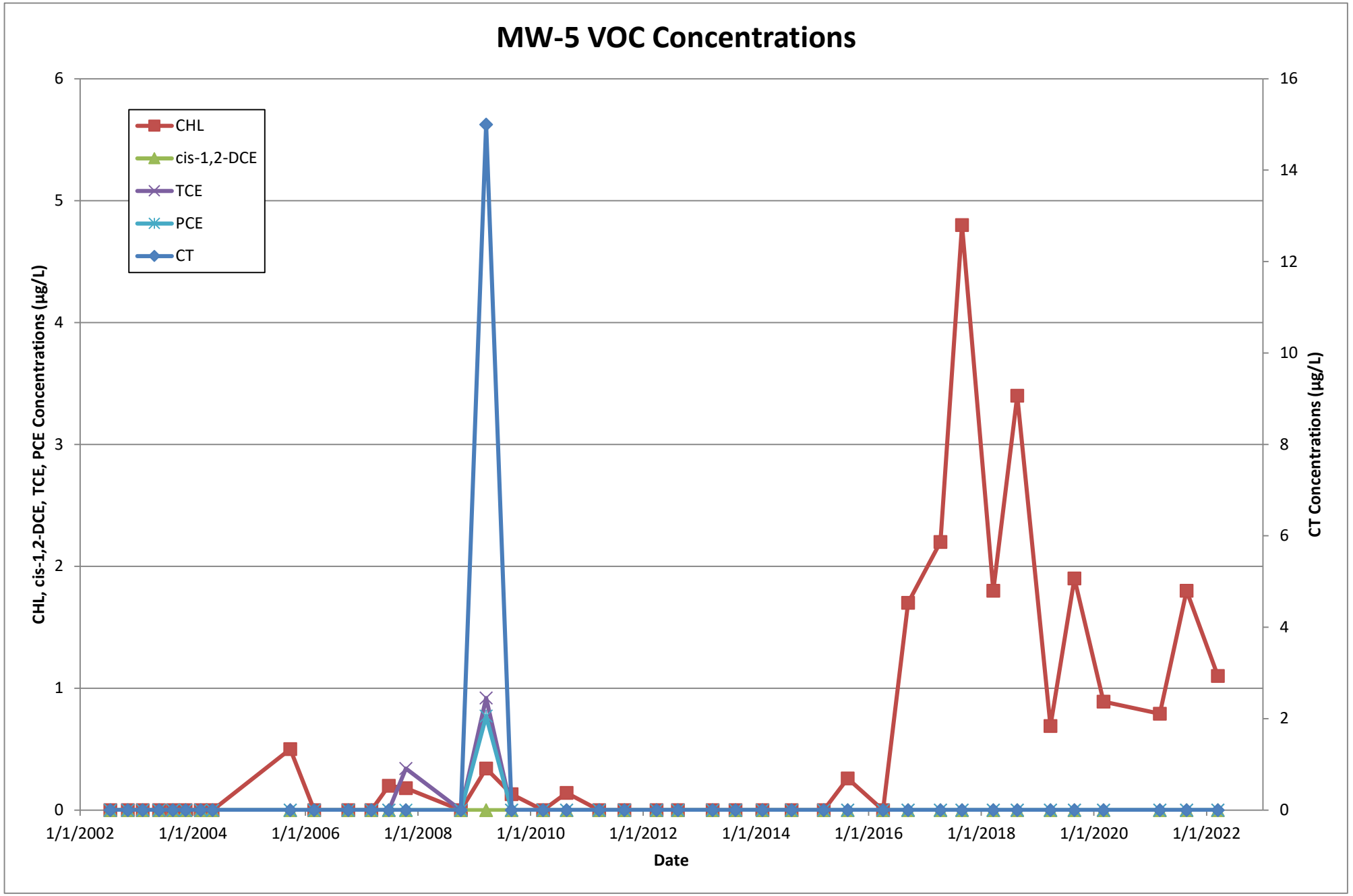
NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

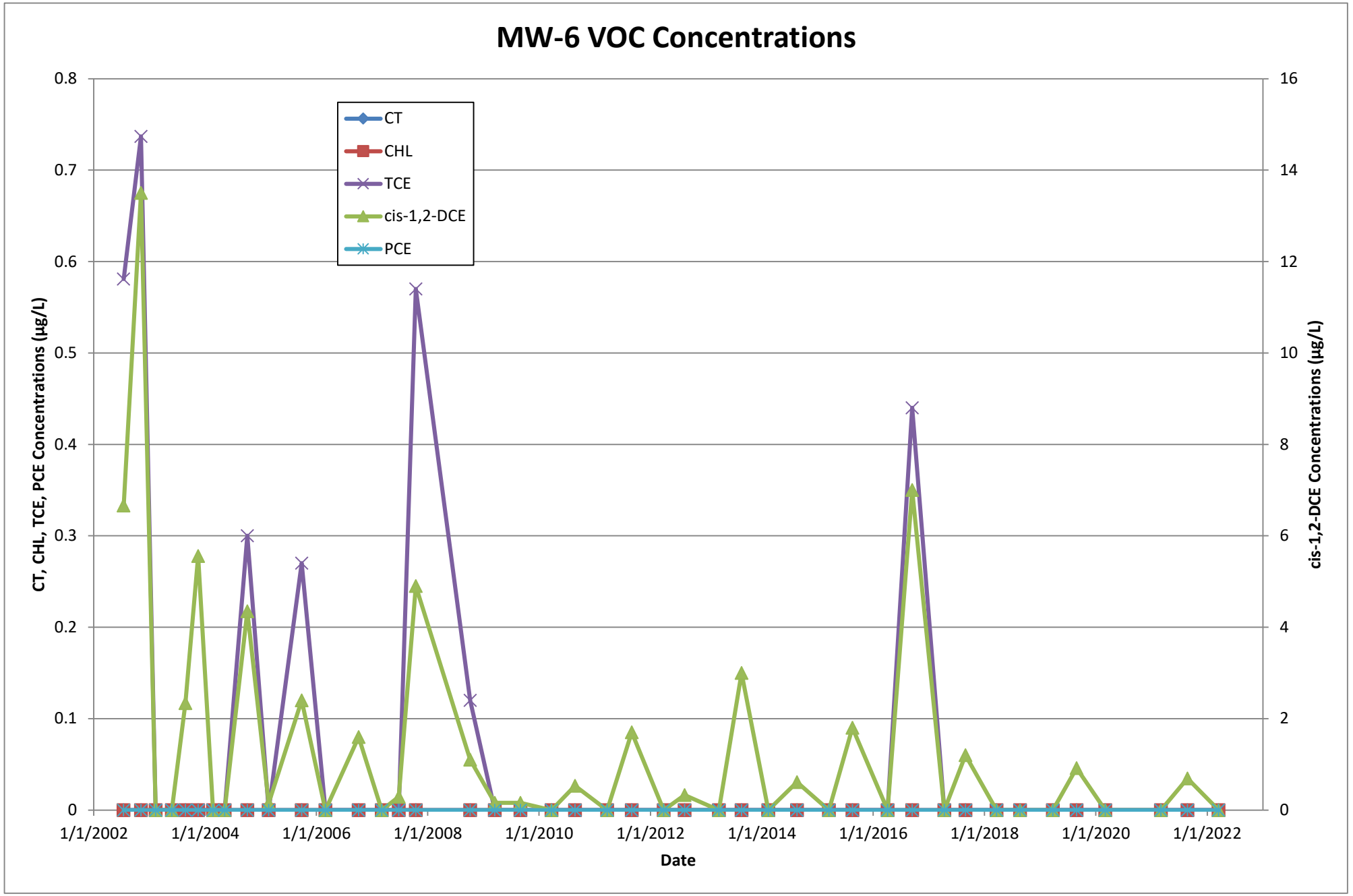
FIGURE 5

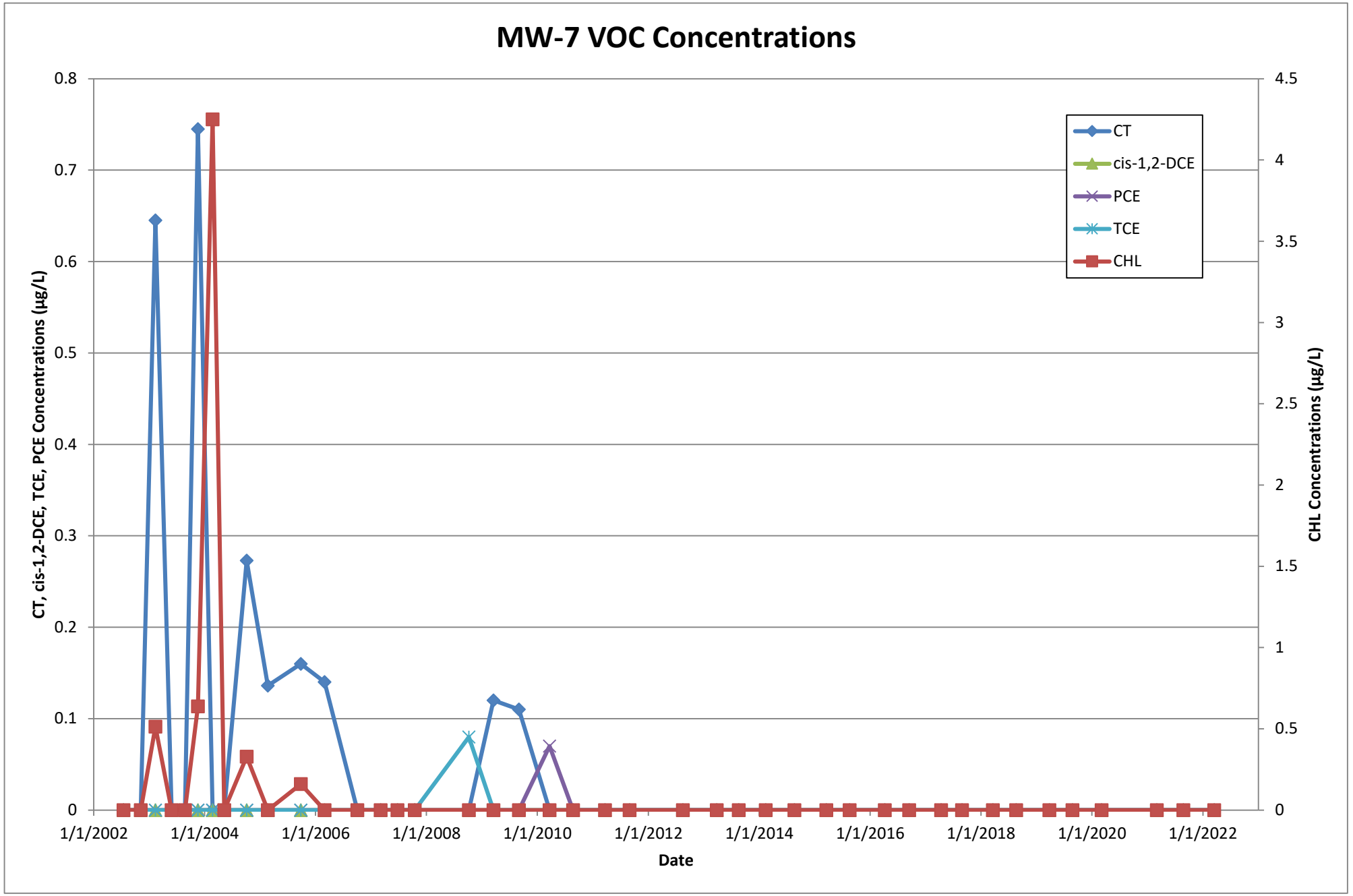
FIGURE 6

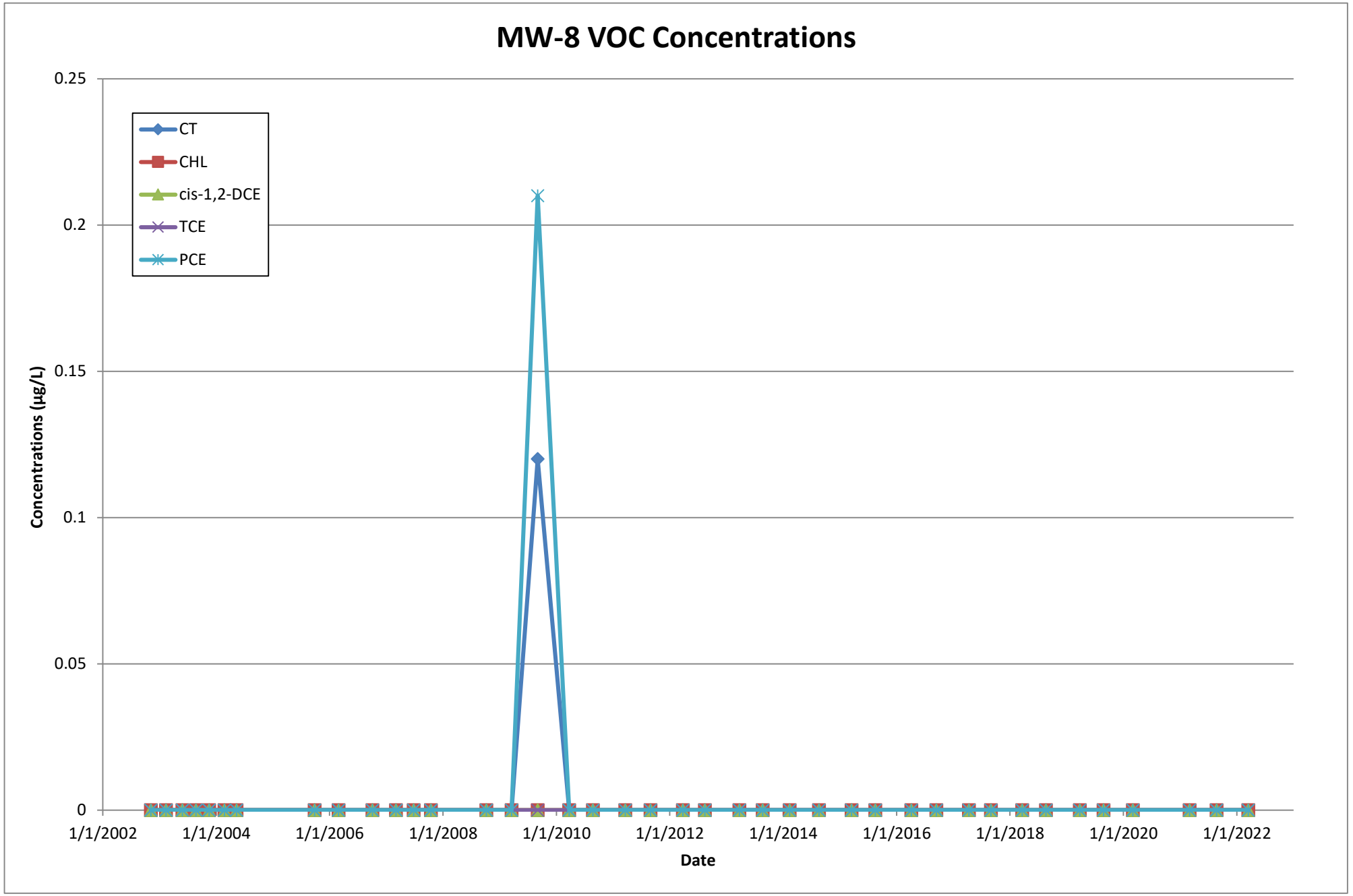

MW-3 VOC Concentrations
PCE
CHL
cis-1,2-DCE
TCE
CT
Concentrations (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

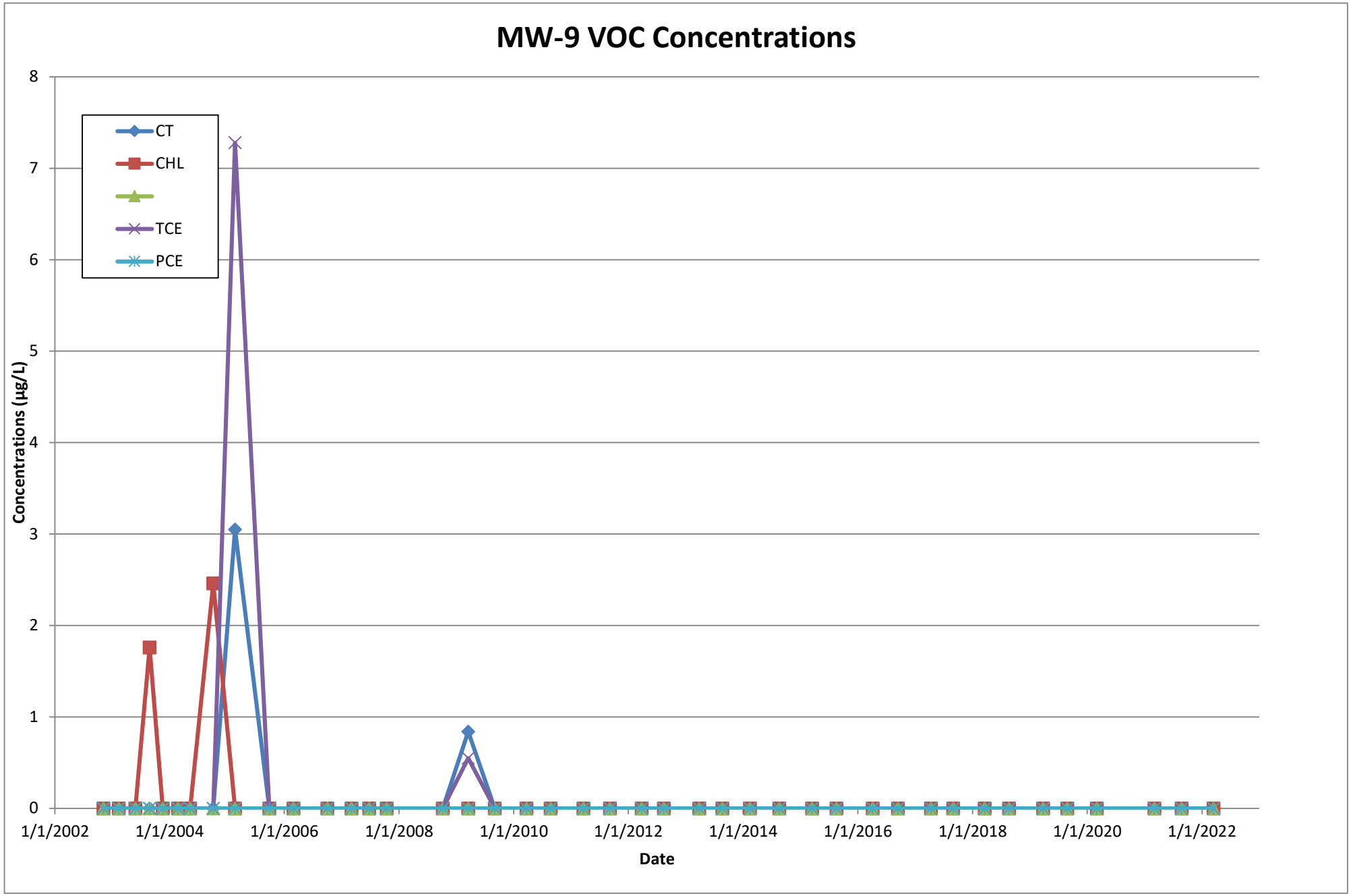

MW-4 VOC Concentrations
2.5
2
1.5
1
0.5
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

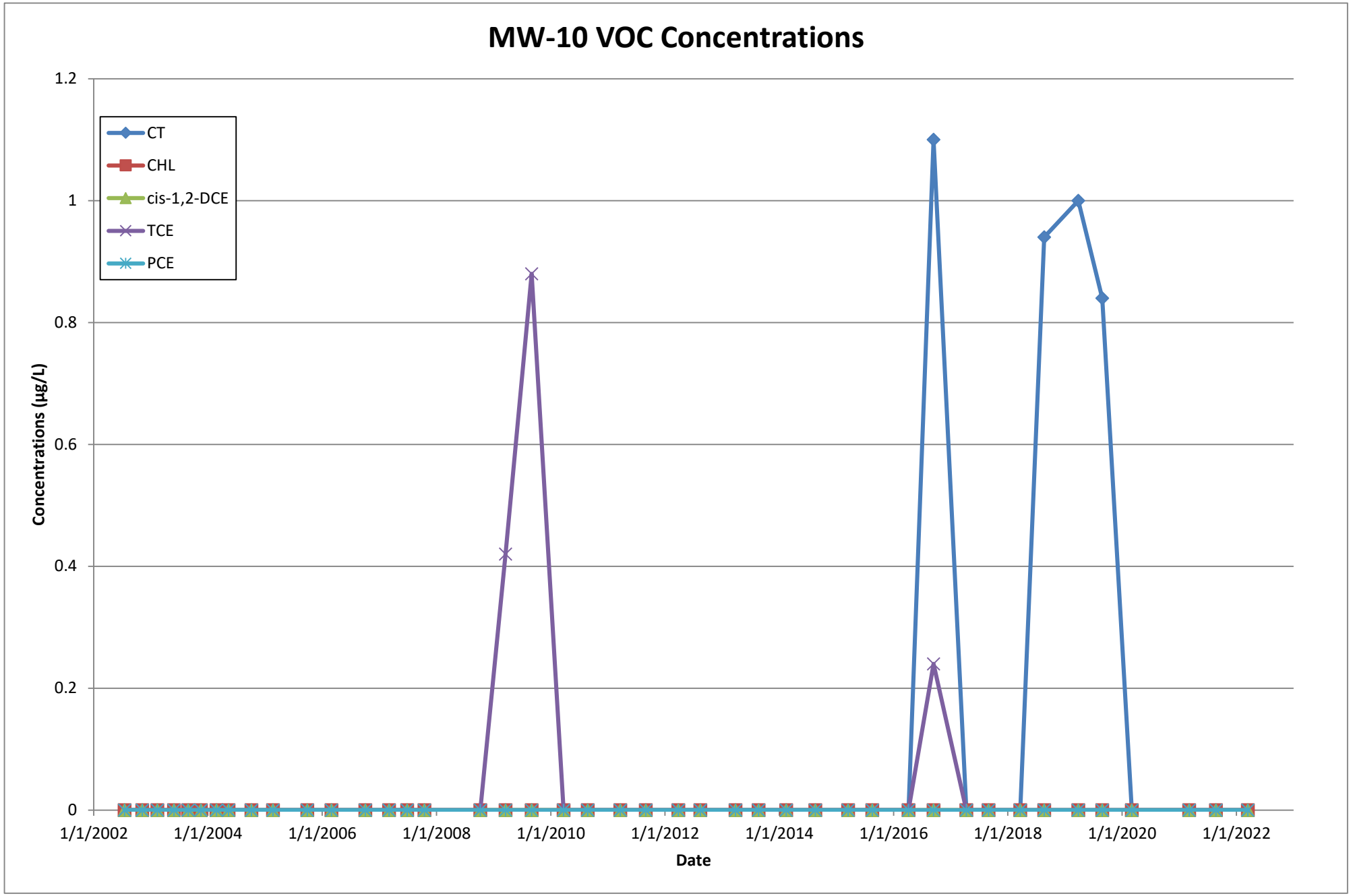

MW-5 VOC Concentrations
CHL
cis-1,2-DCE
TCE
PCE
CT
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14
16
1/1/2002
1/1/2004
1/1/2006
1/1/2008
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1/1/2018
1/1/2020
1/1/2022

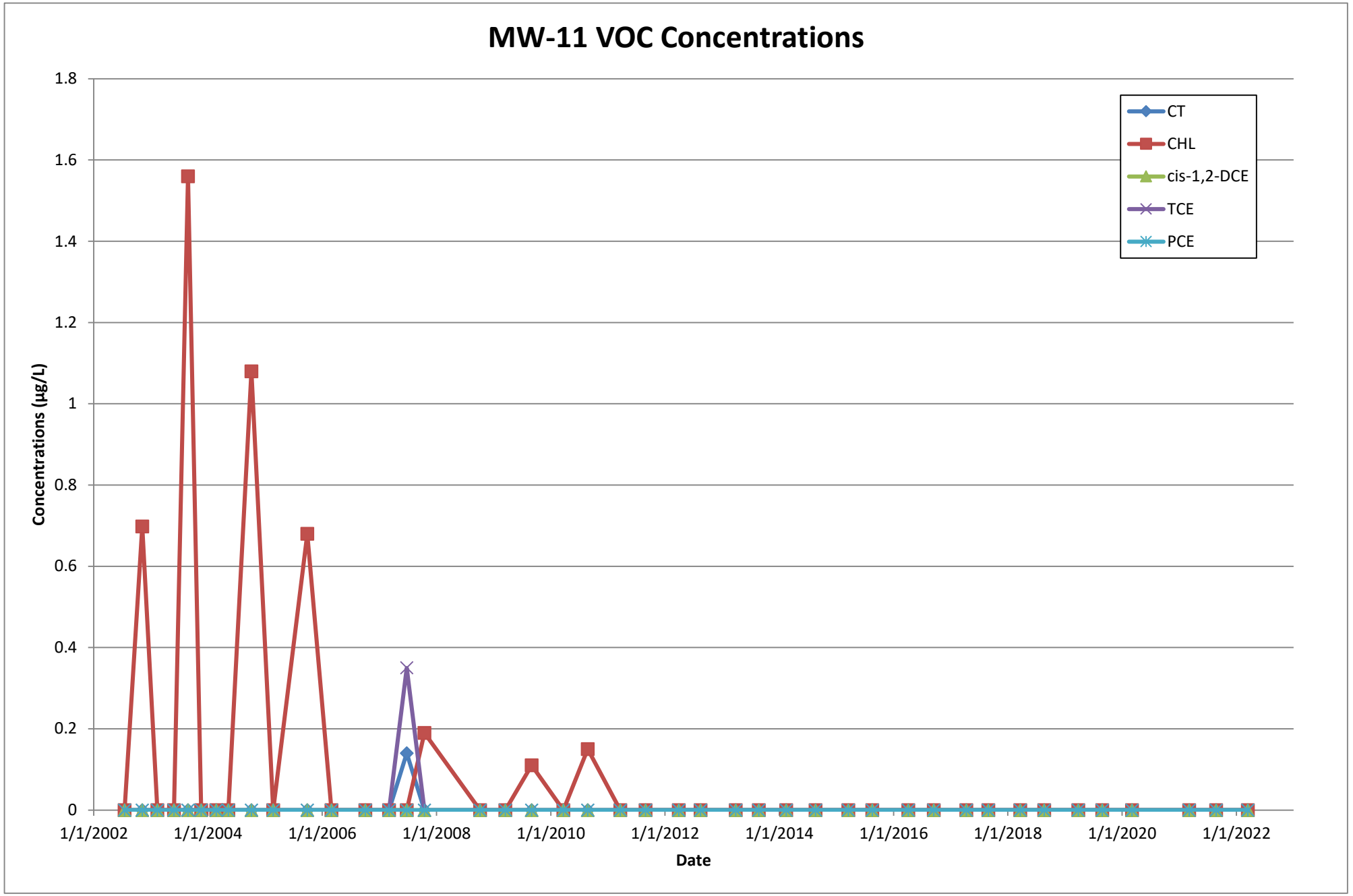

MW-6 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE, PCE Concentrations (µg/L)
cis-1,2-DCE Concentrations (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

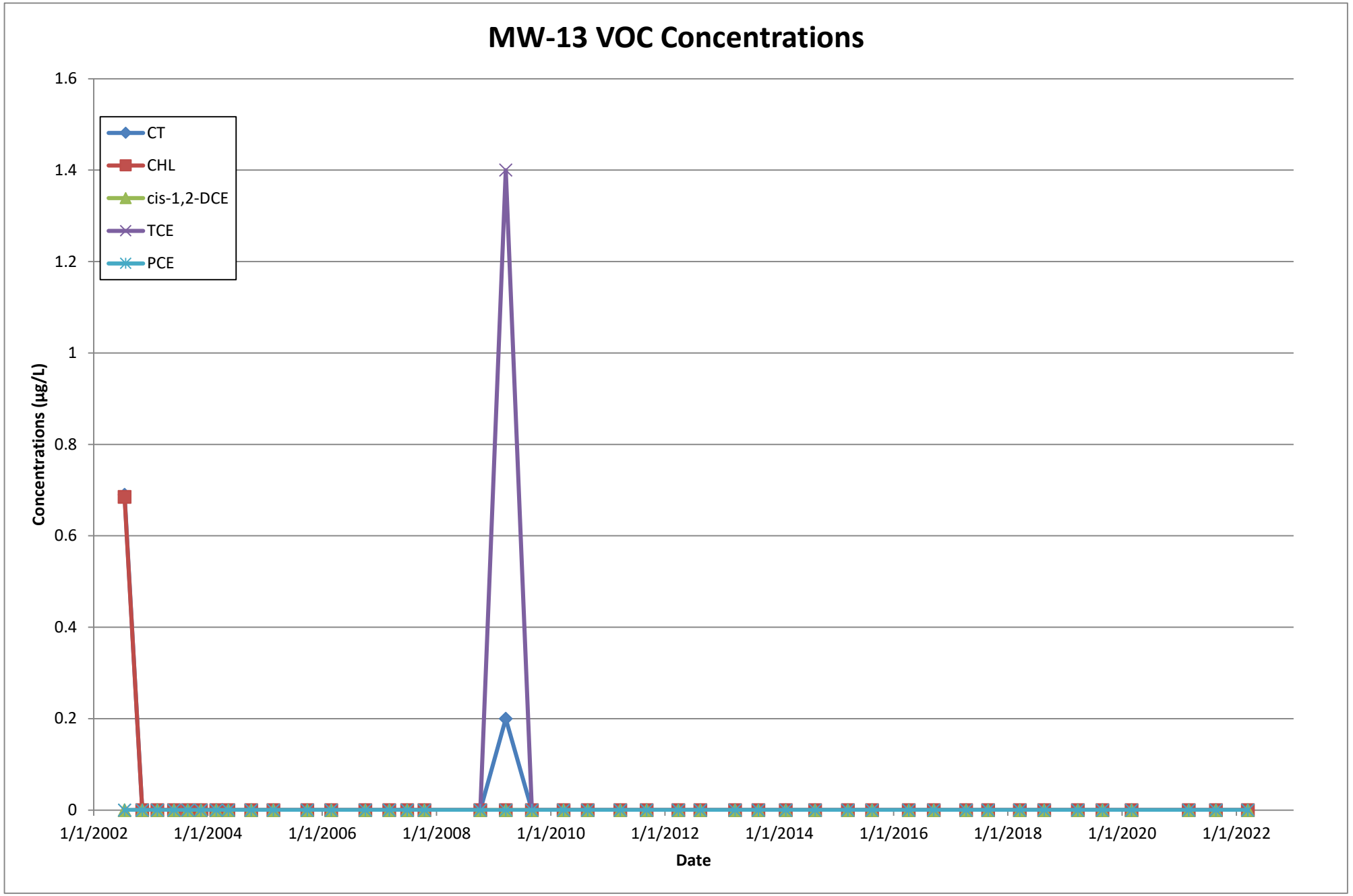

MW-7 VOC Concentrations
CT, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CHL Concentrations (µg/L)
Date
CT
cis-1,2-DCE
PCE
TCE
CHL
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

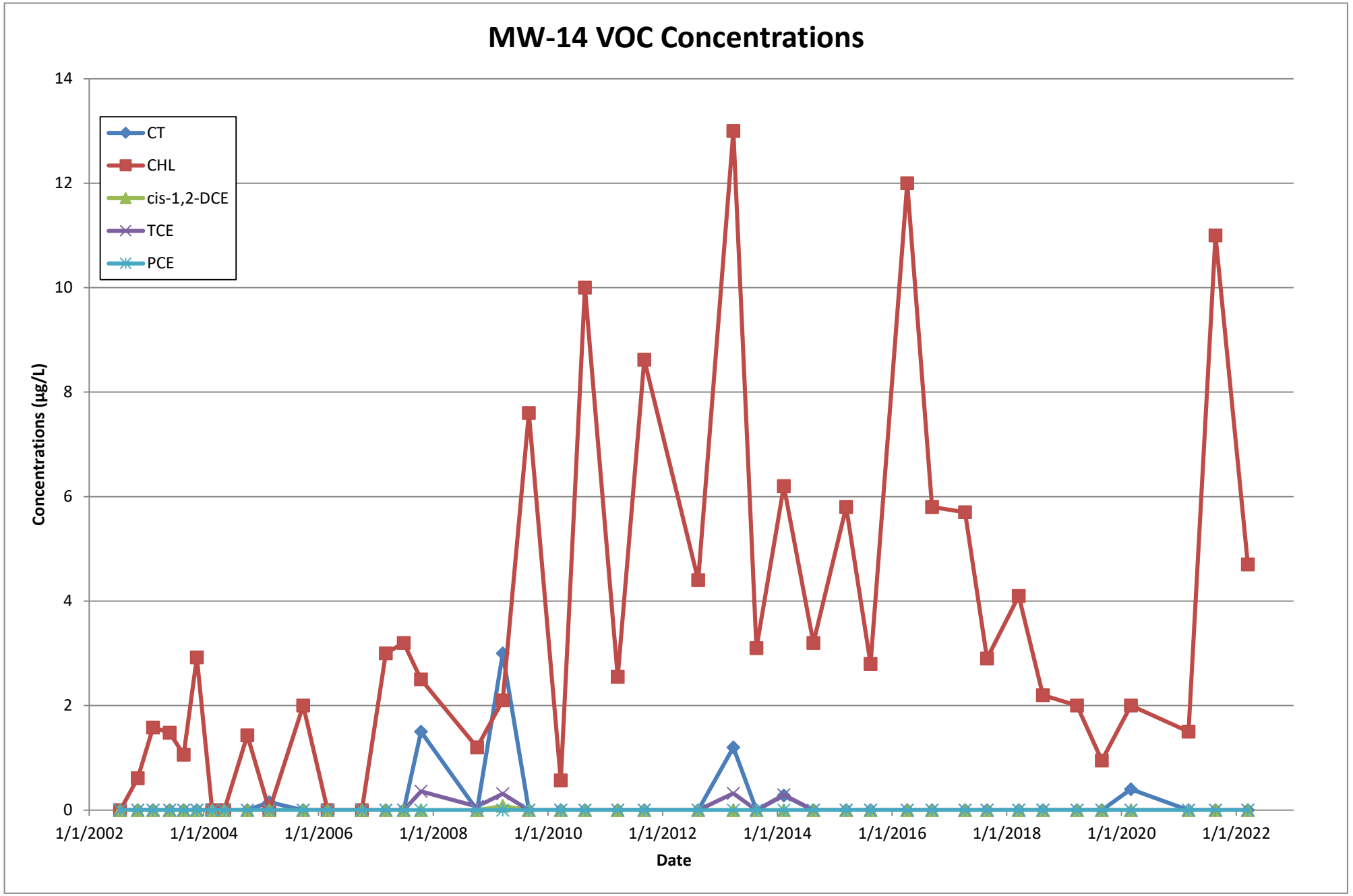

MW-8 VOC Concentrations
0.25
0.2
0.15
0.1
0.05
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

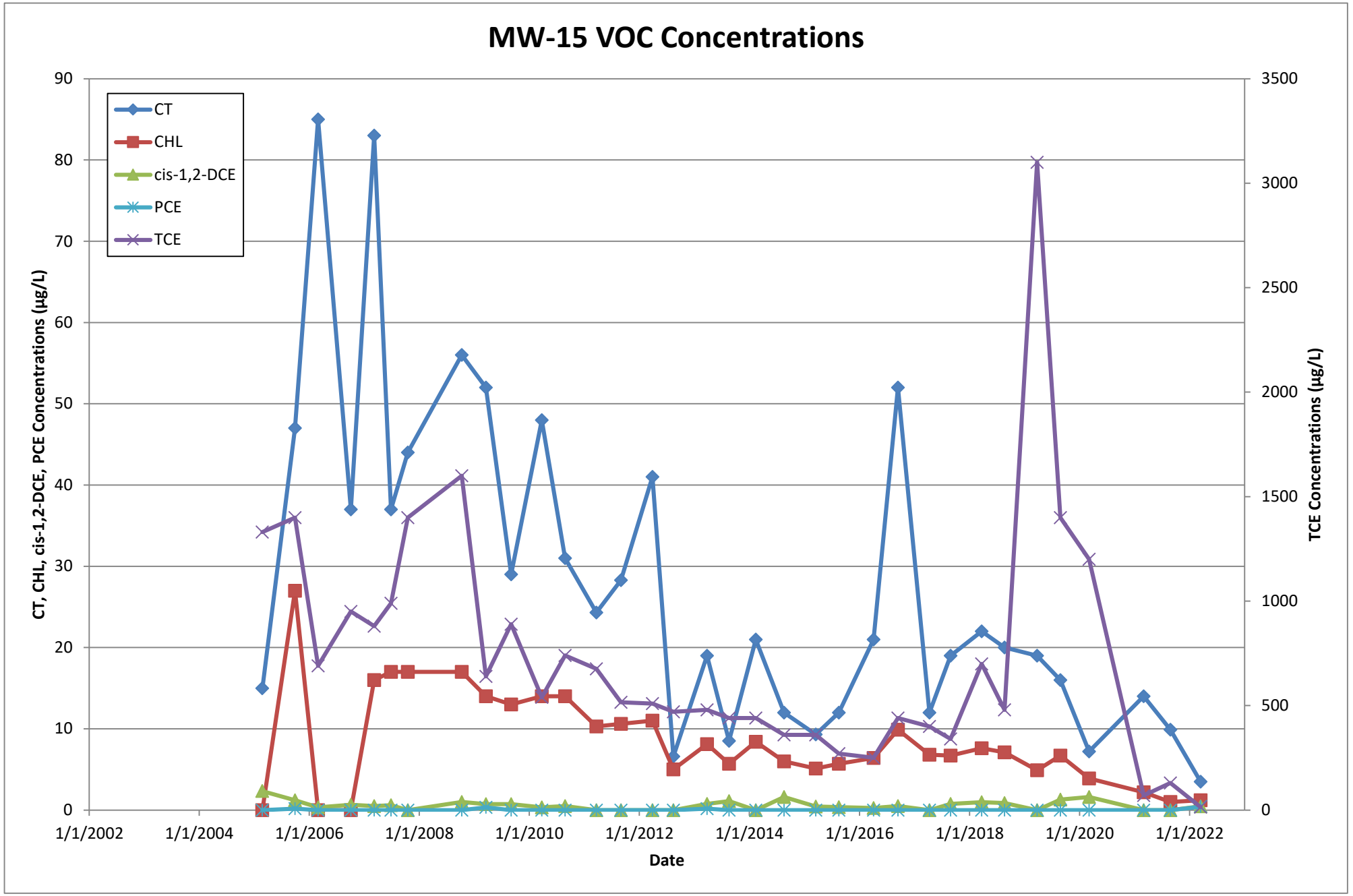

MW-9 VOC Concentrations
CT
CHL
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

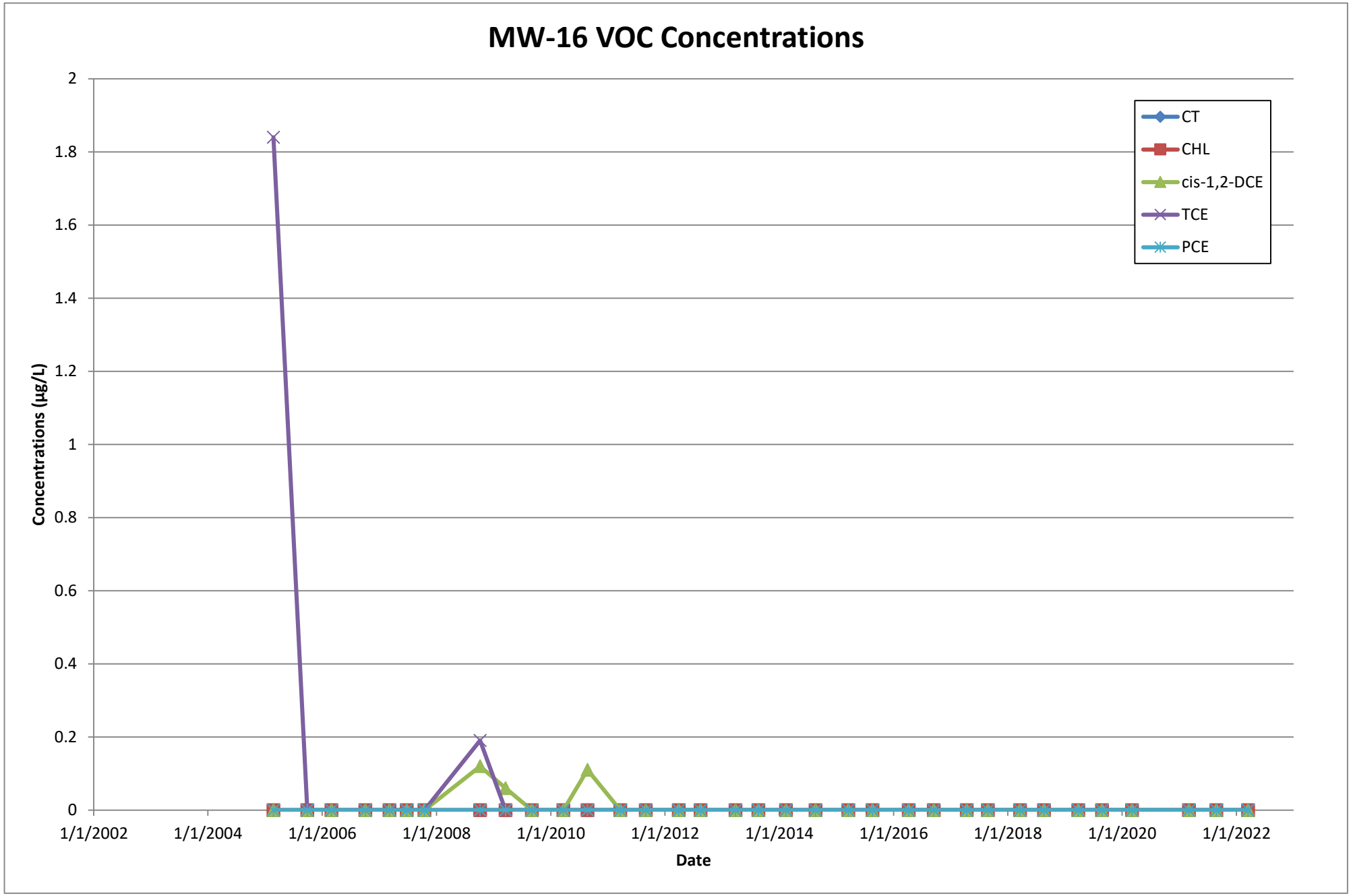

MW-10 VOC Concentrations
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

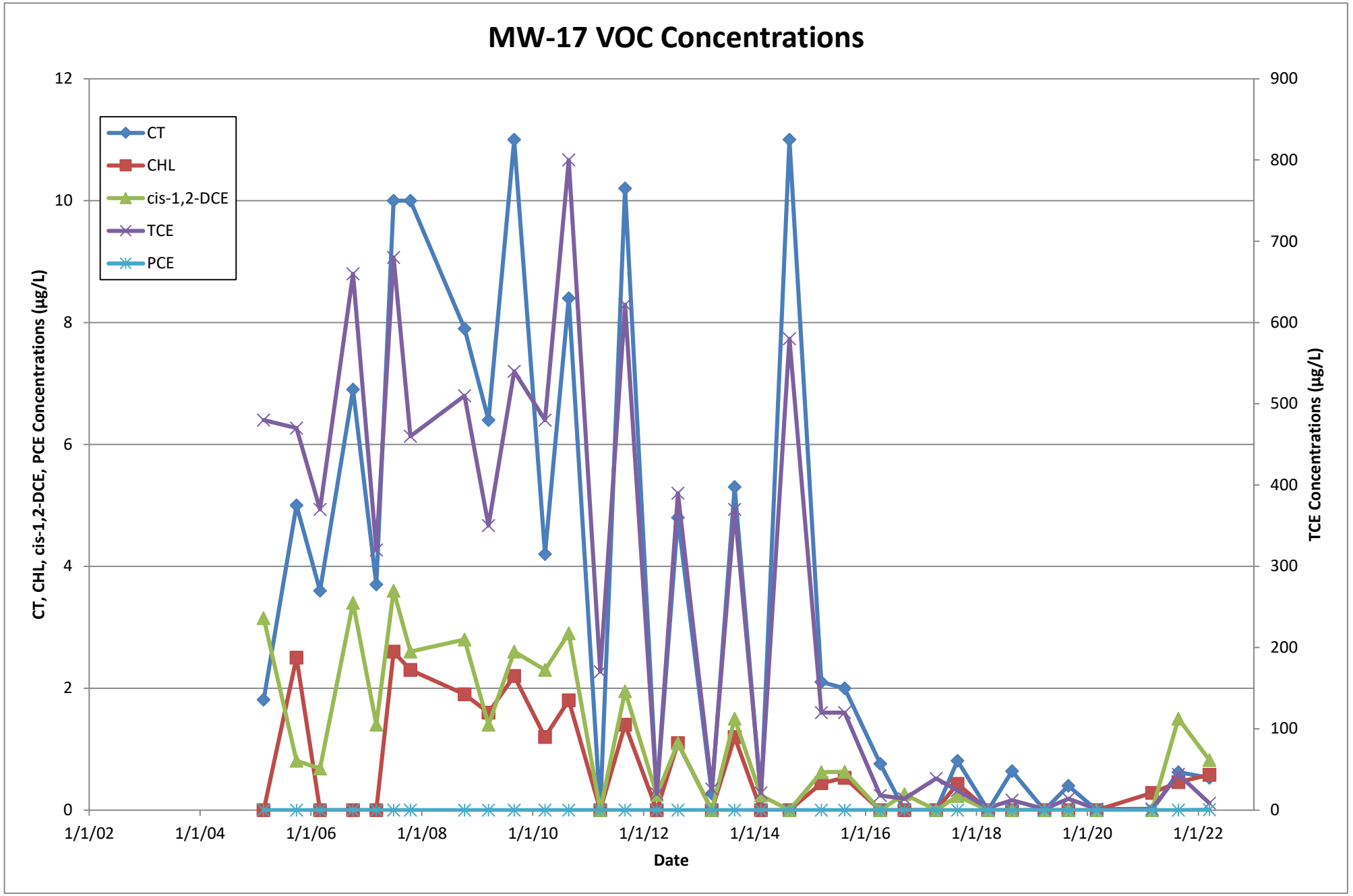

MW-11 VOC Concentrations
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

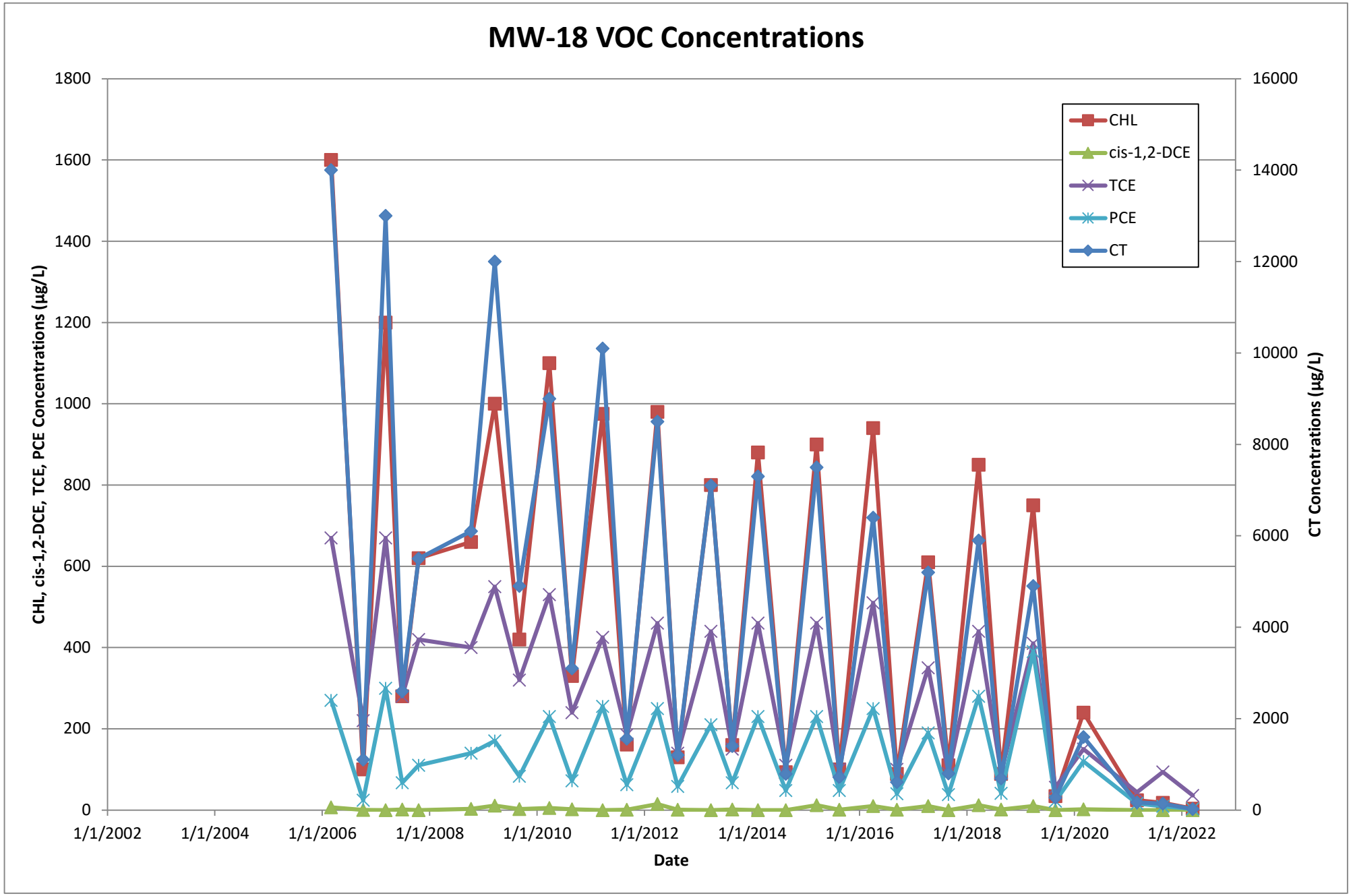

MW-13 VOC Concentrations
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

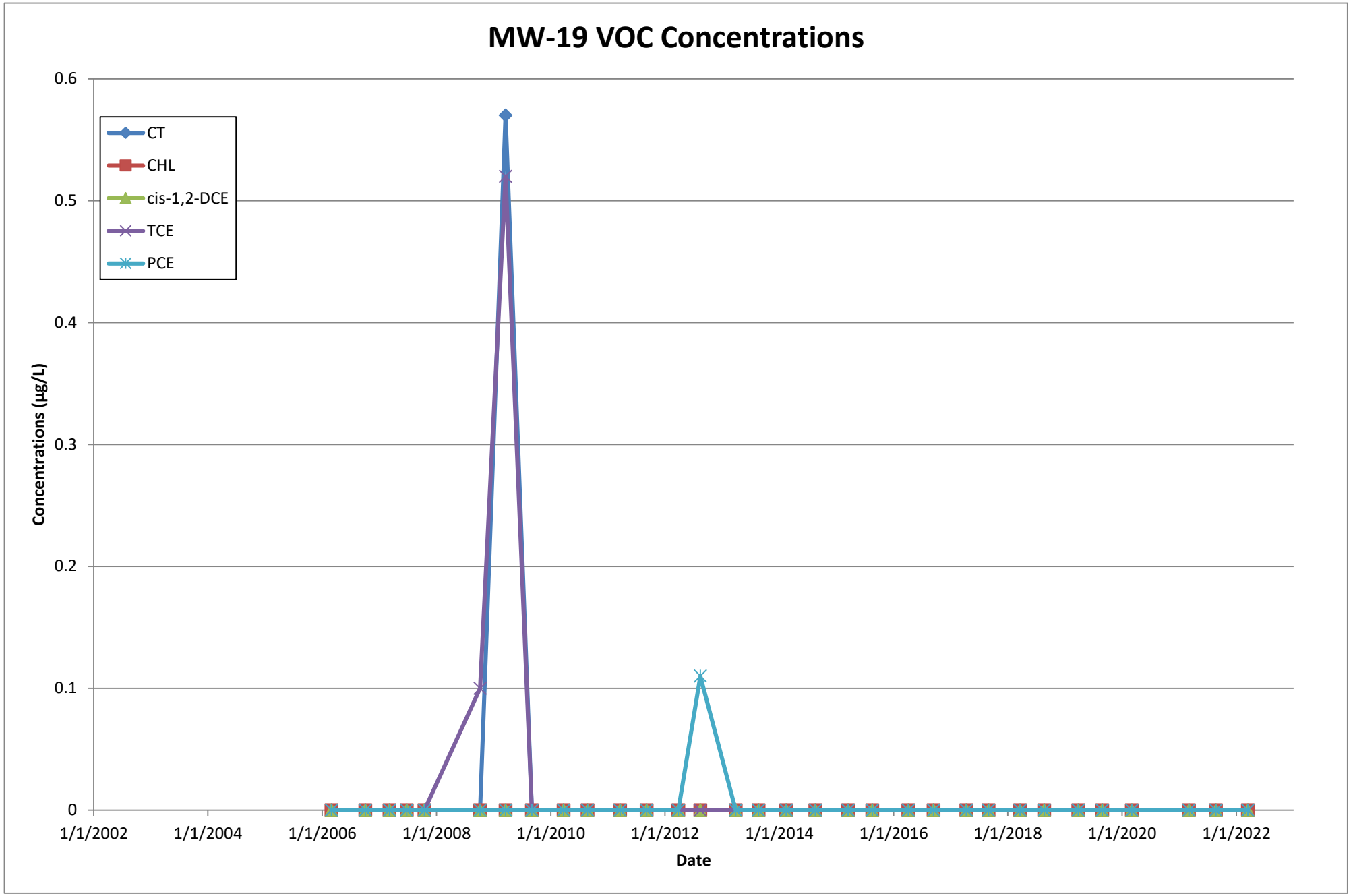

MW-14 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

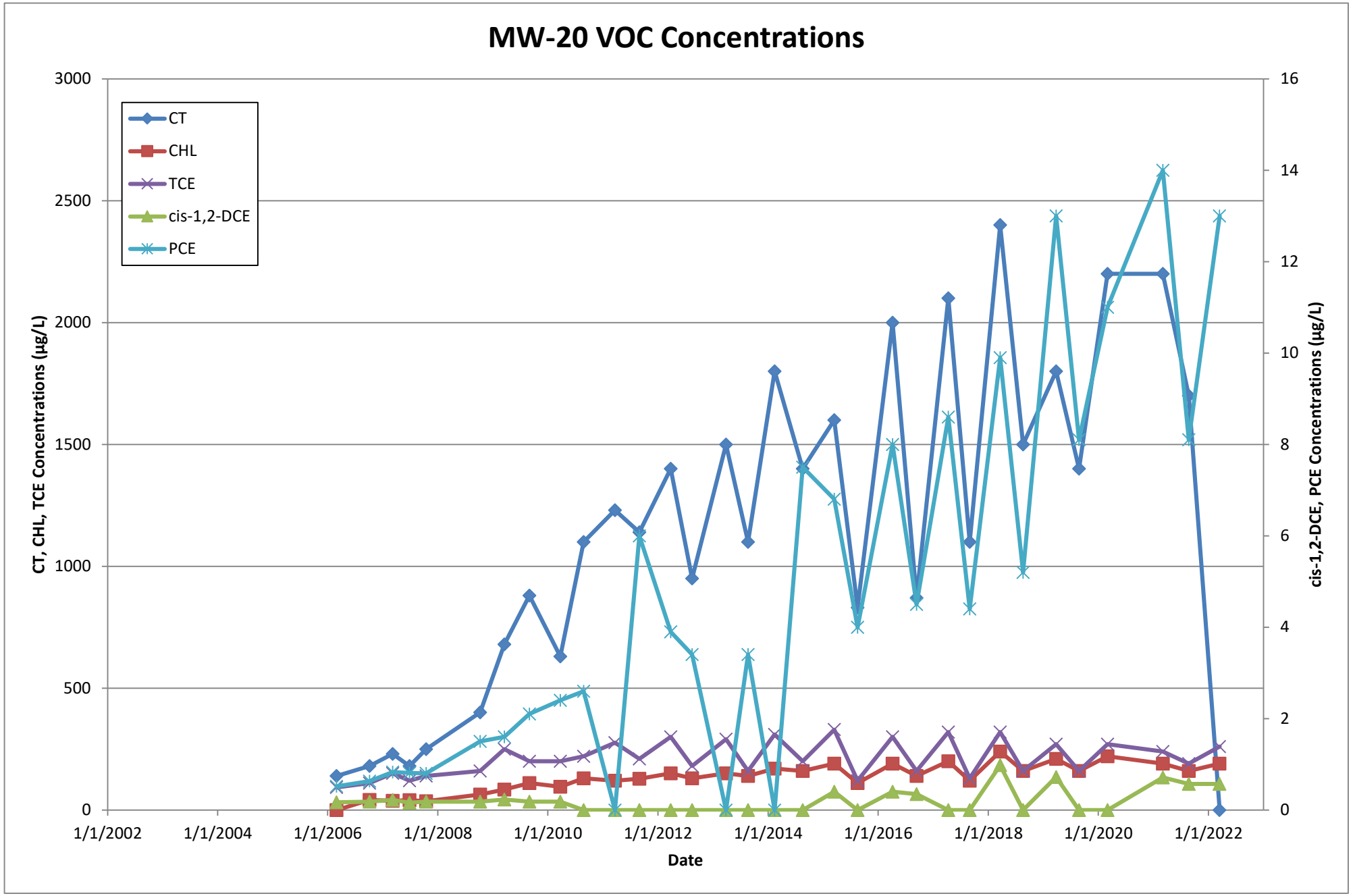

MW-15 VOC Concentrations
CT
CHL
cis-1,2-DCE
PCE
TCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
10
20
30
40
50
60
70
80
90
0
500
1000
1500
2000
2500
3000
3500
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

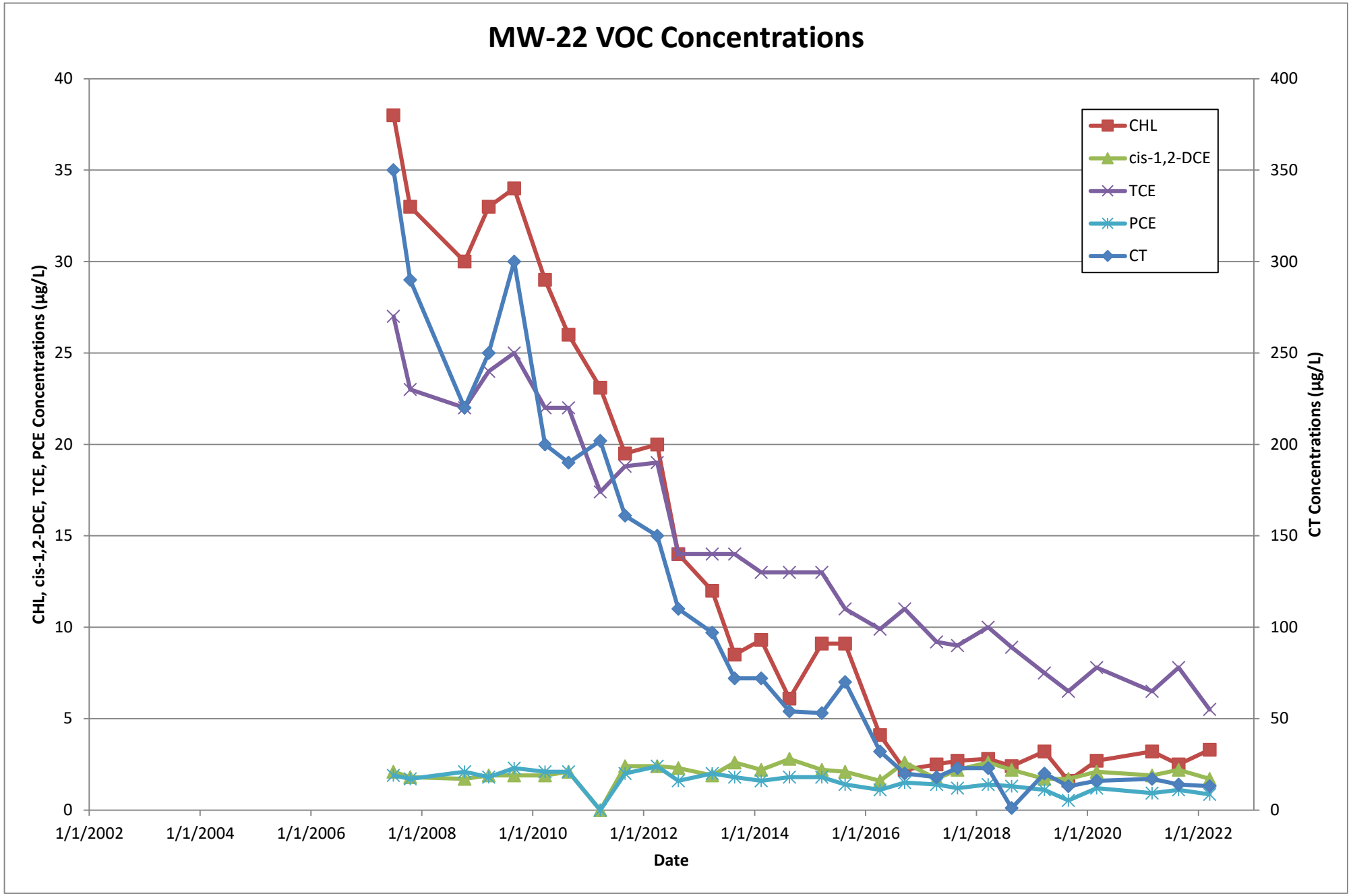

MW-16 VOC Concentrations
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

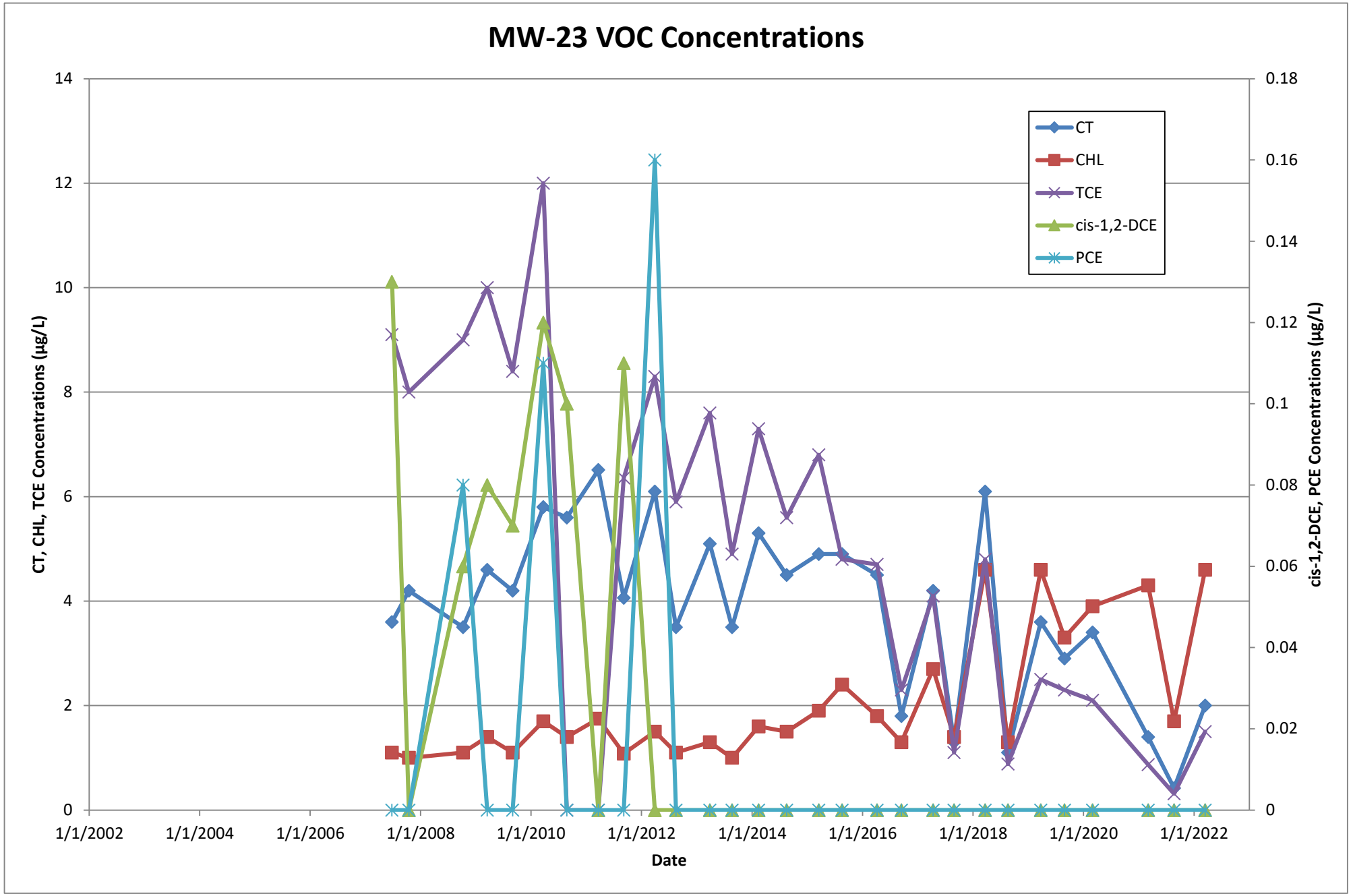

MW-17 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
2
4
6
8
10
12
0
100
200
300
400
500
600
700
800
900
1/1/02
1/1/04
1/1/06
1/1/08
1/1/10
1/1/12
1/1/14
1/1/16
1/1/18
1/1/20
1/1/22

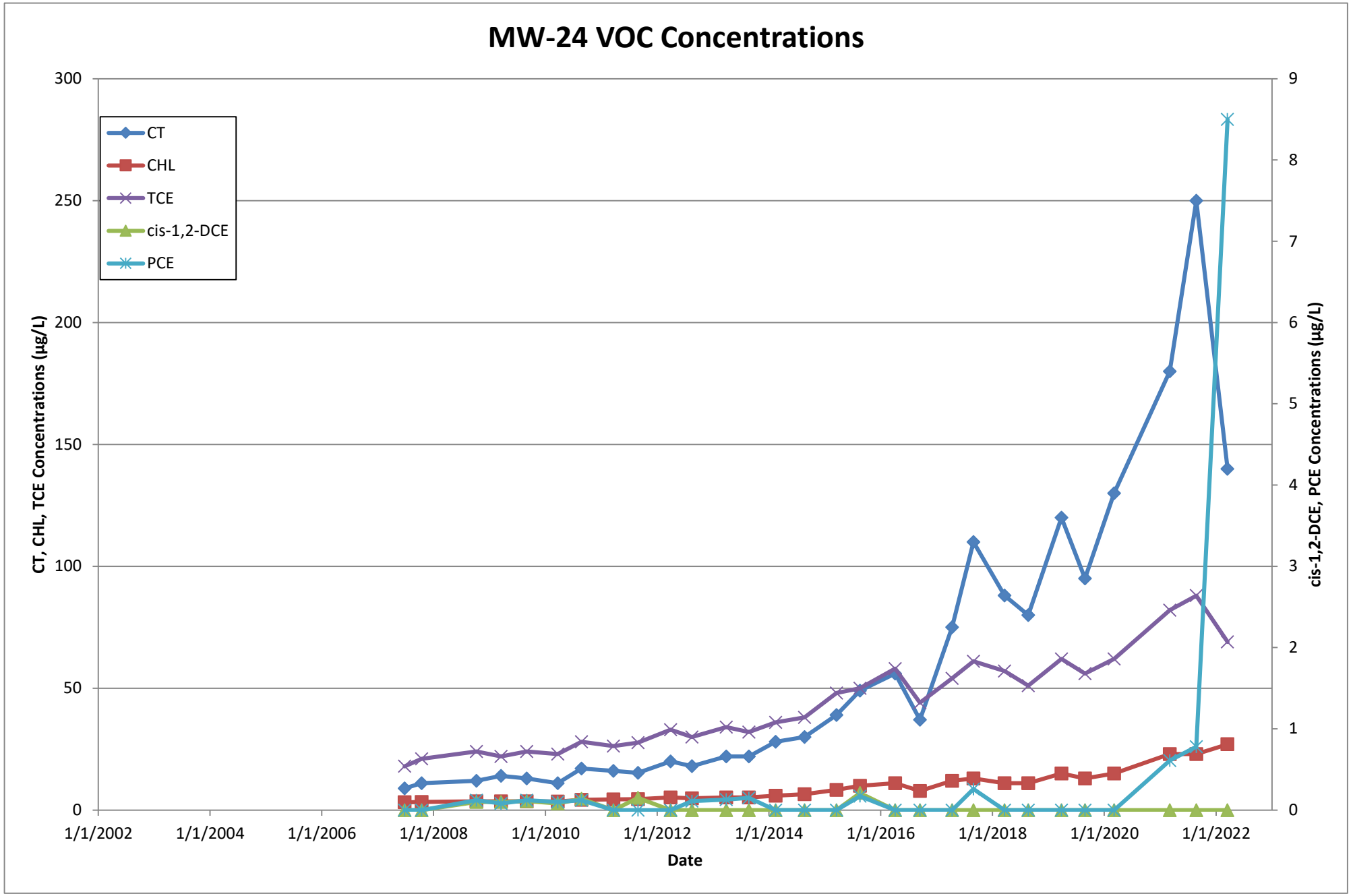

MW-18 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
0
200
400
600
800
1000
1200
1400
1600
1800
2000
4000
6000
8000
10000
12000
14000
16000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

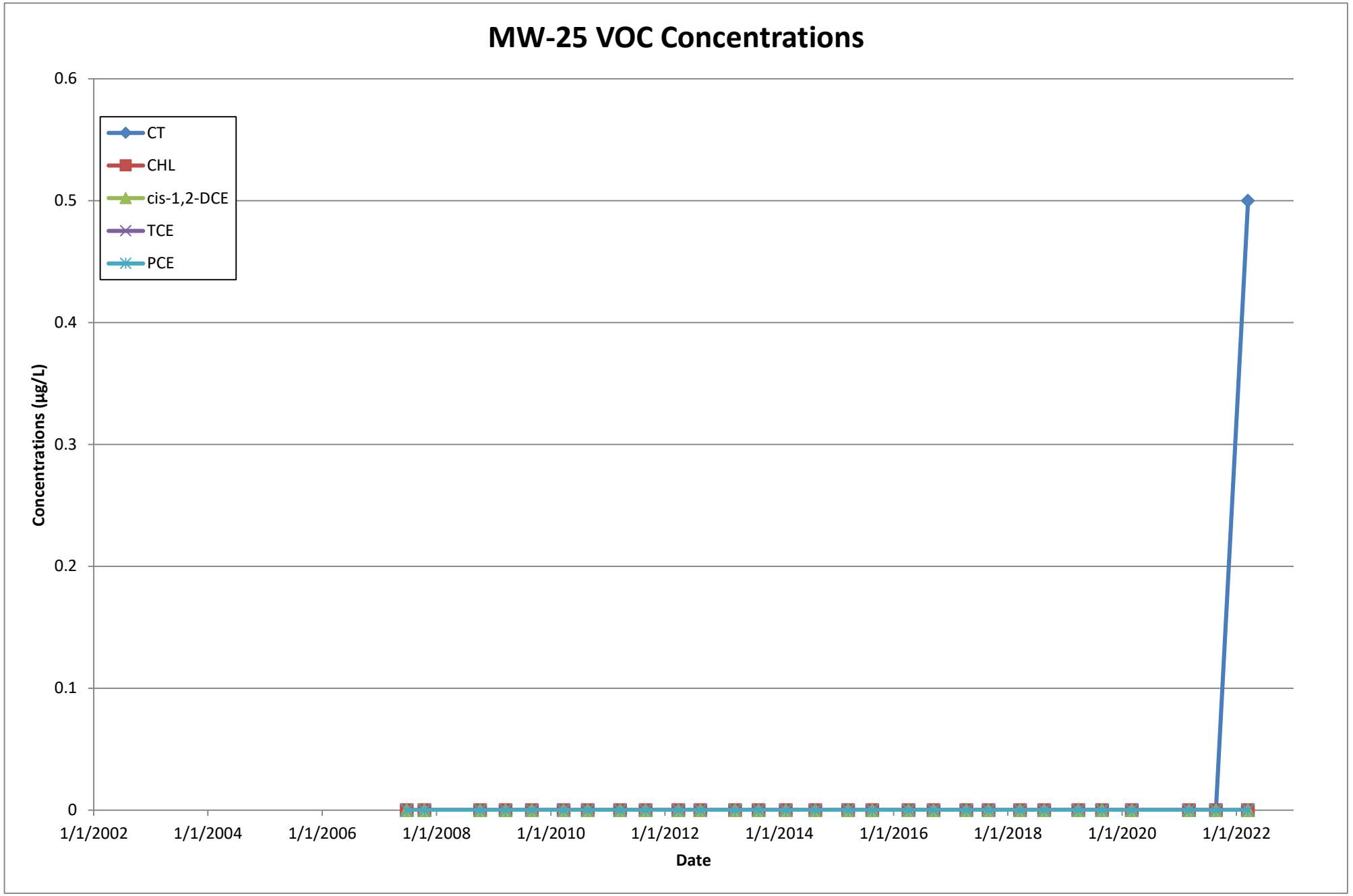

MW-19 VOC Concentrations
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

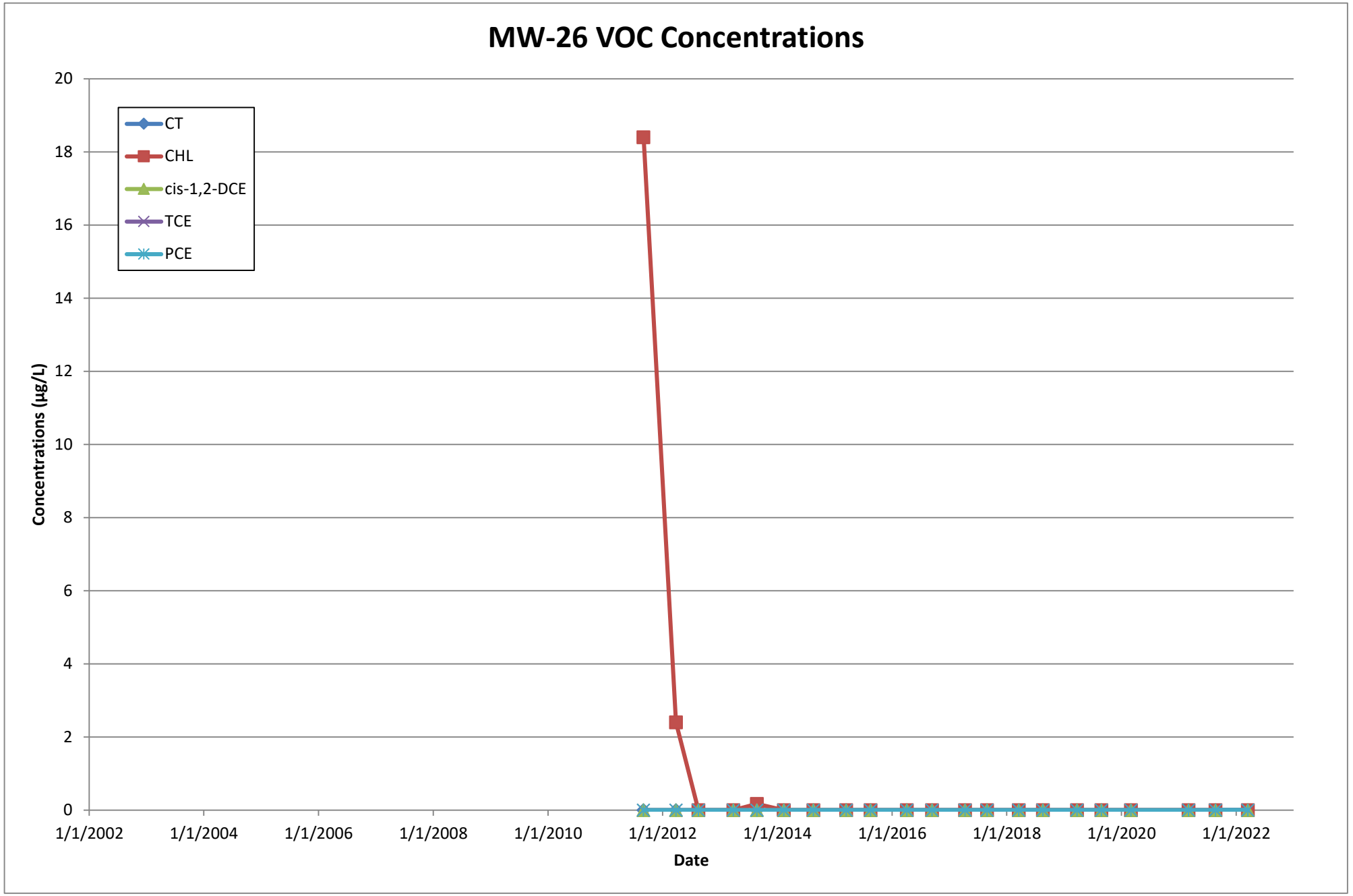

MW-20 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
3000
2500
2000
1500
1000
500
0
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

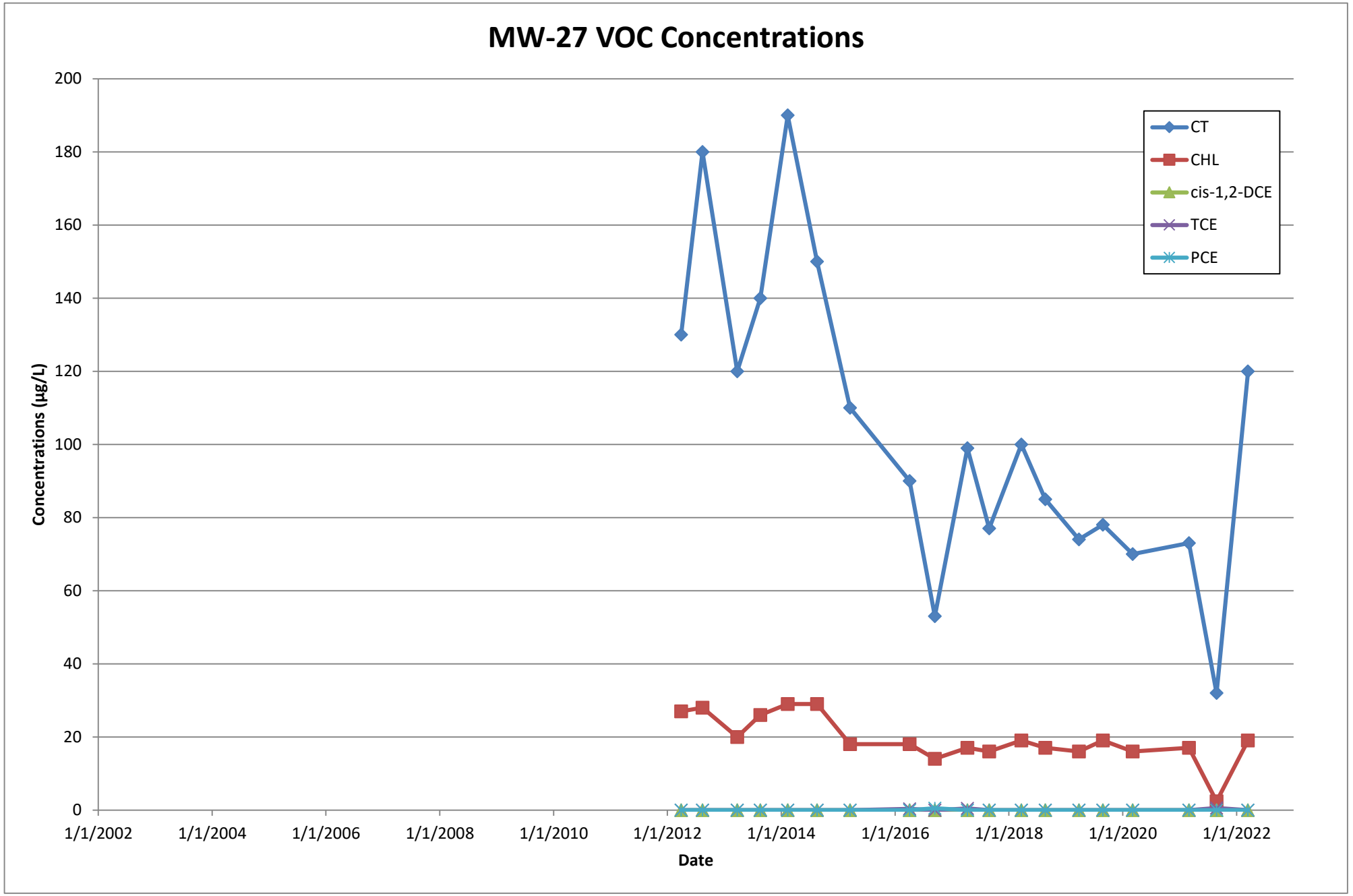

MW-22 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
0
5
10
15
20
25
30
35
40
0
50
100
150
200
250
300
350
400
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

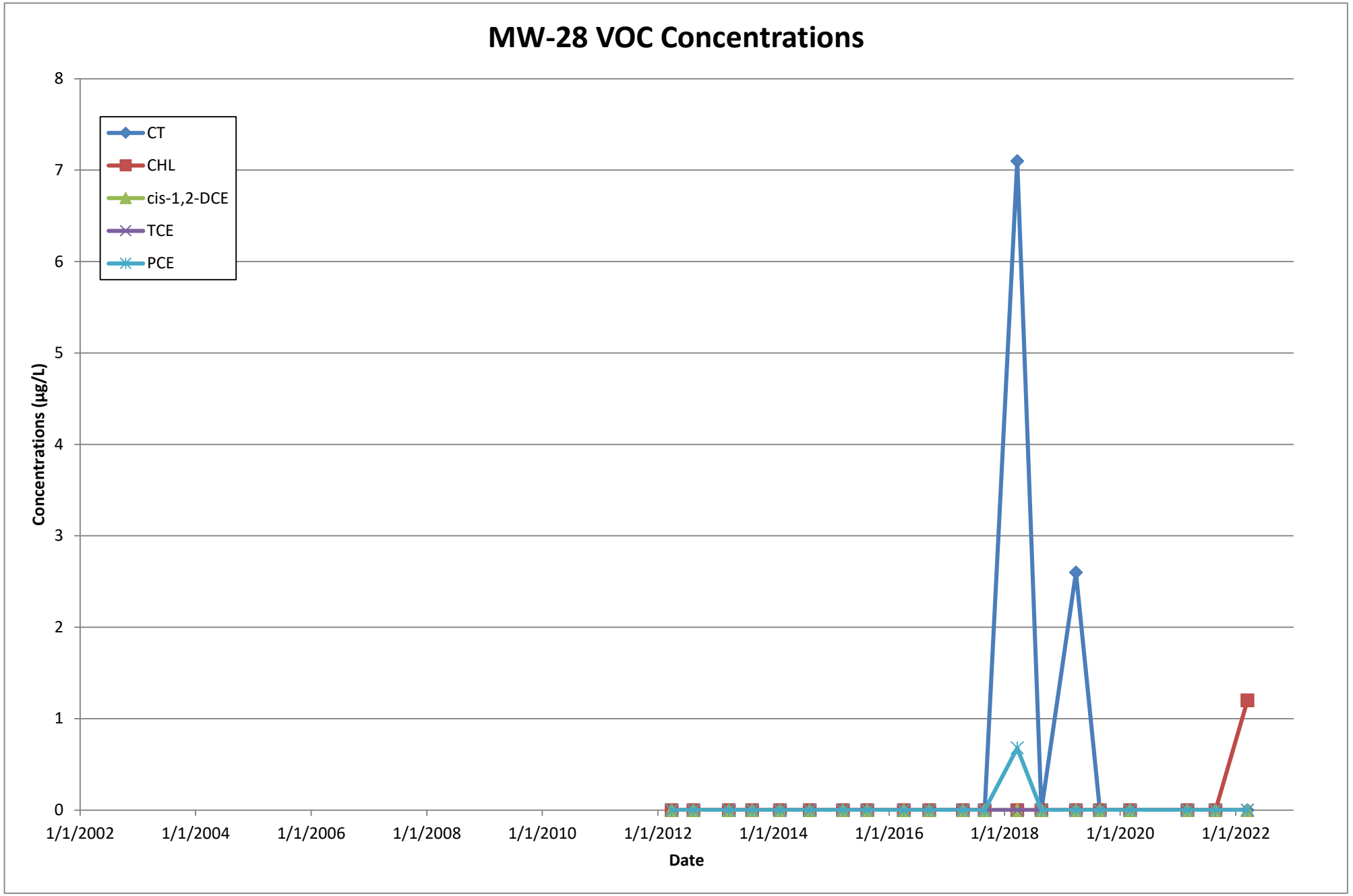

MW-23 VOC Concentrations
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
CT
CHL
TCE
cis-1,2-DCE
PCE
0
2
4
6
8
10
12
14
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

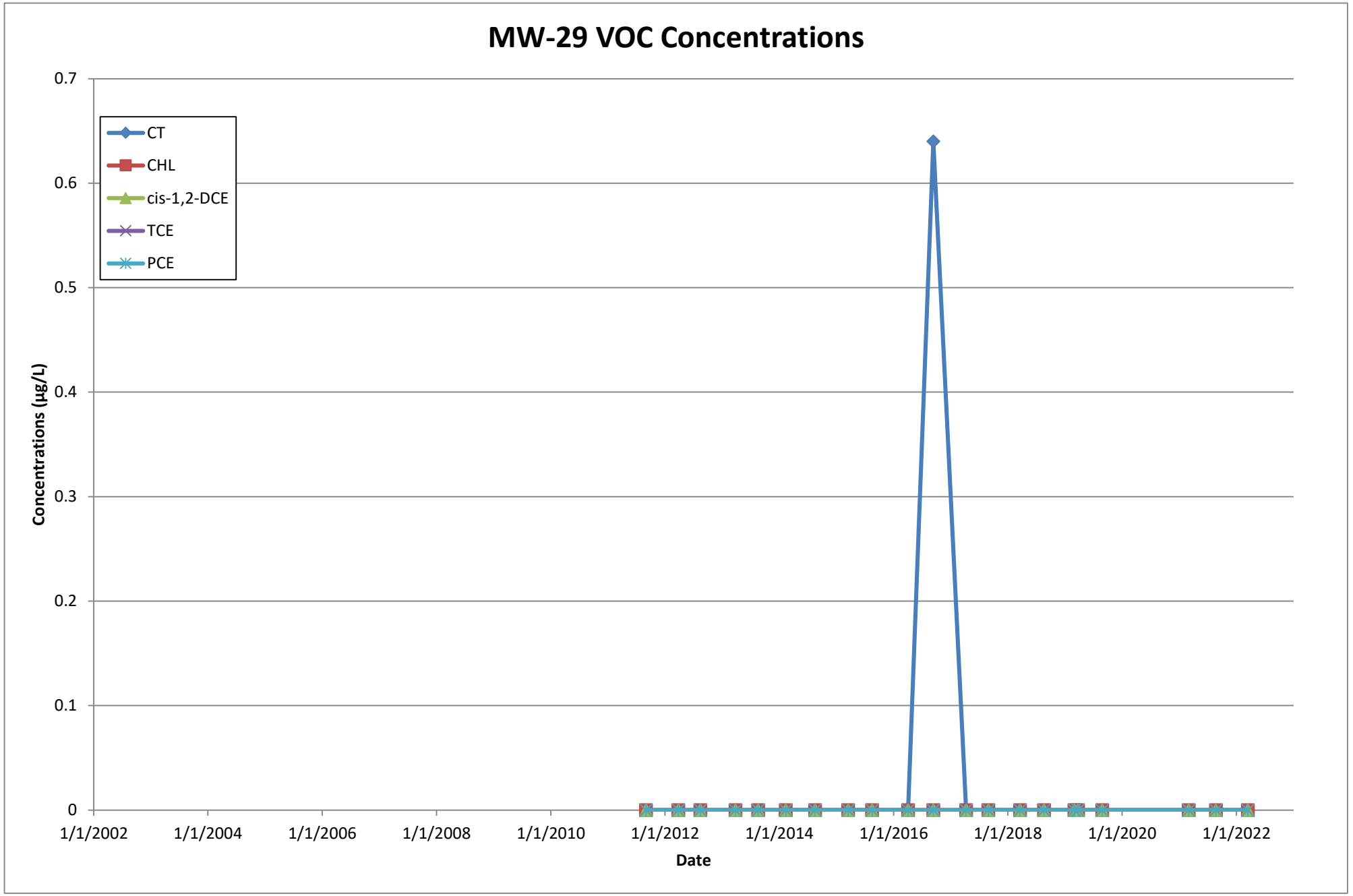

MW-24 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
300
250
200
150
100
50
0
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

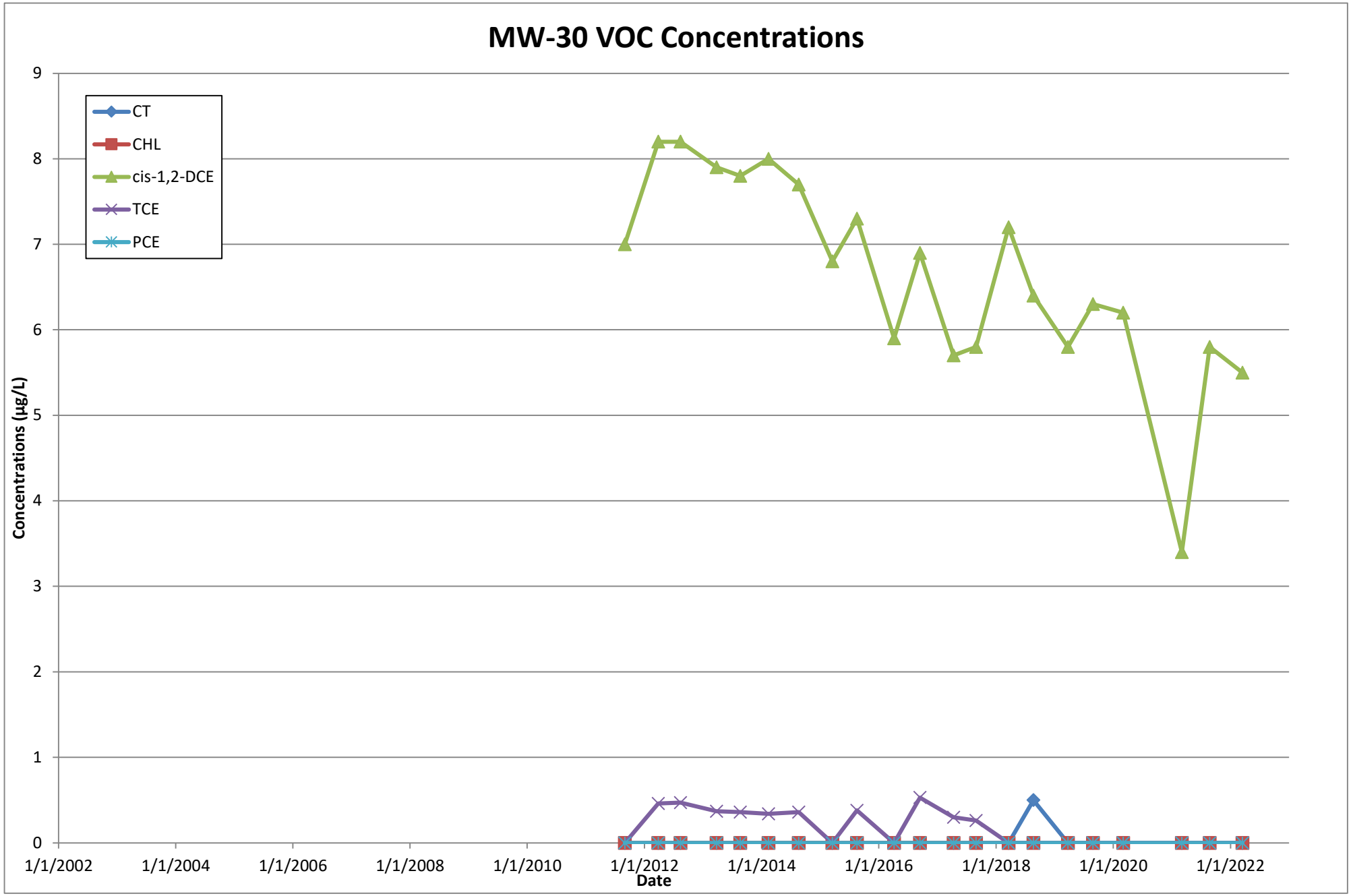

MW-25 VOC Concentrations
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

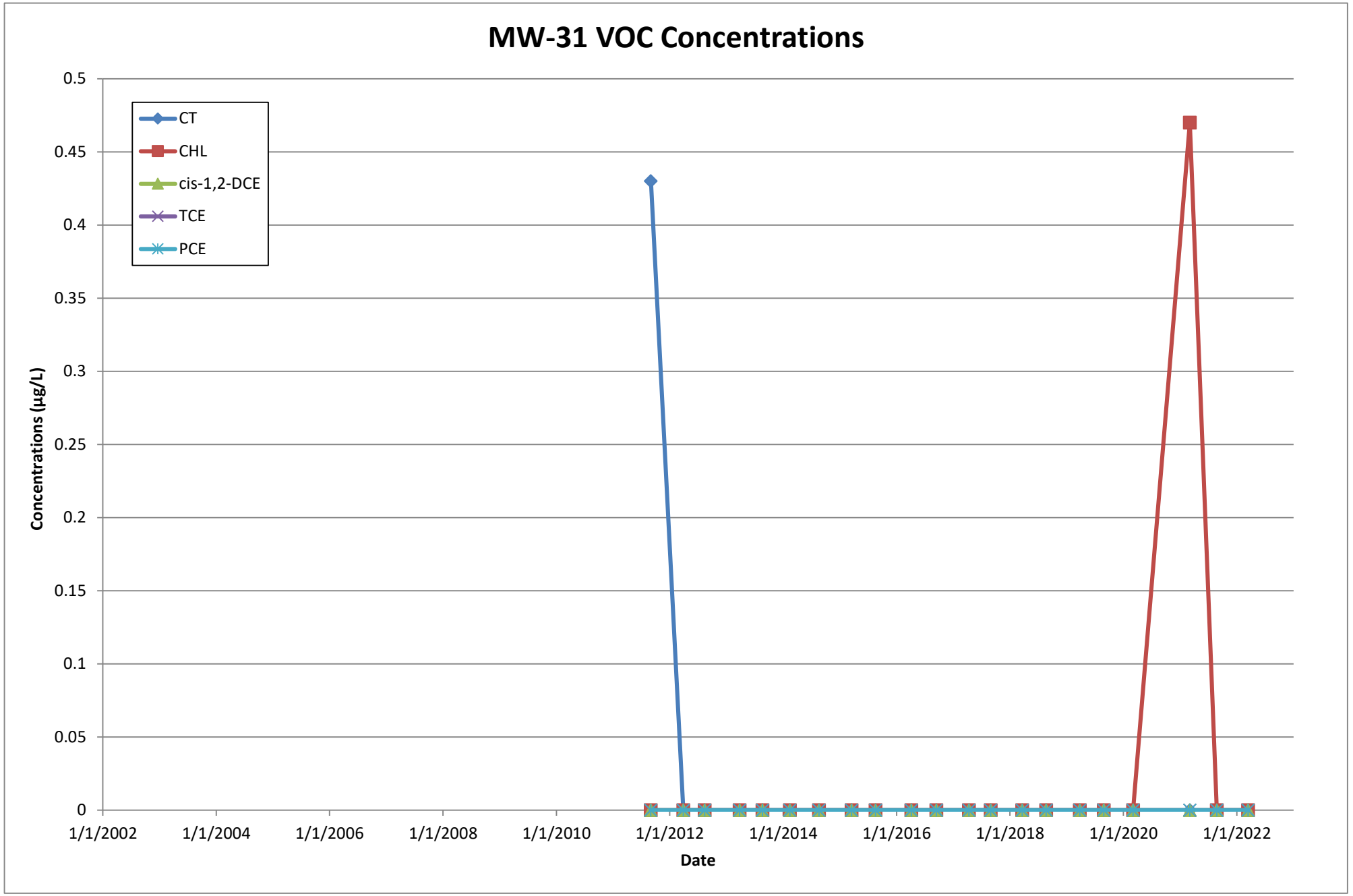

MW-26 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

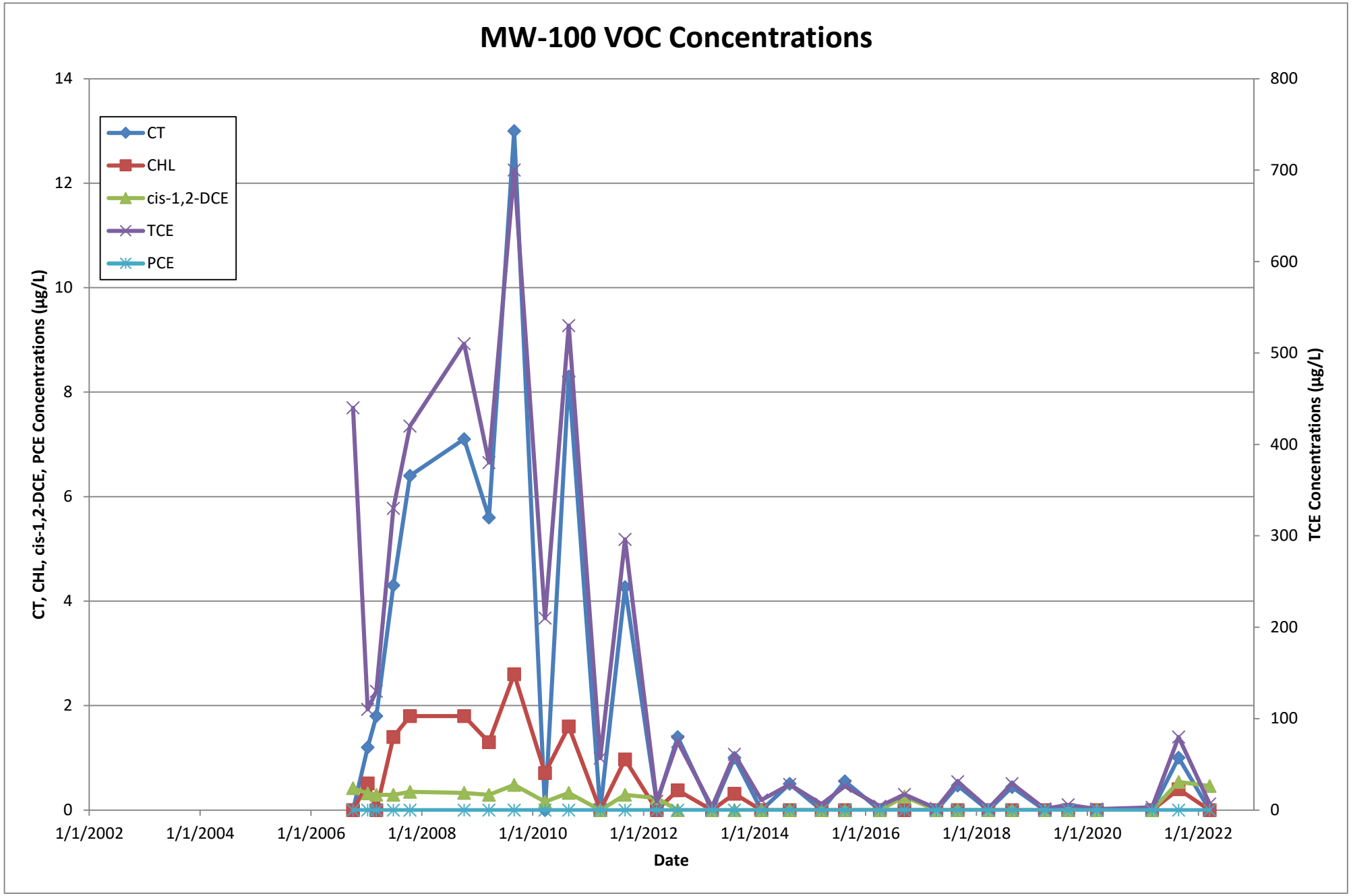

MW-27 VOC Concentrations
Concentrations (µg/L)
200
180
160
140
120
100
80
60
40
20
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

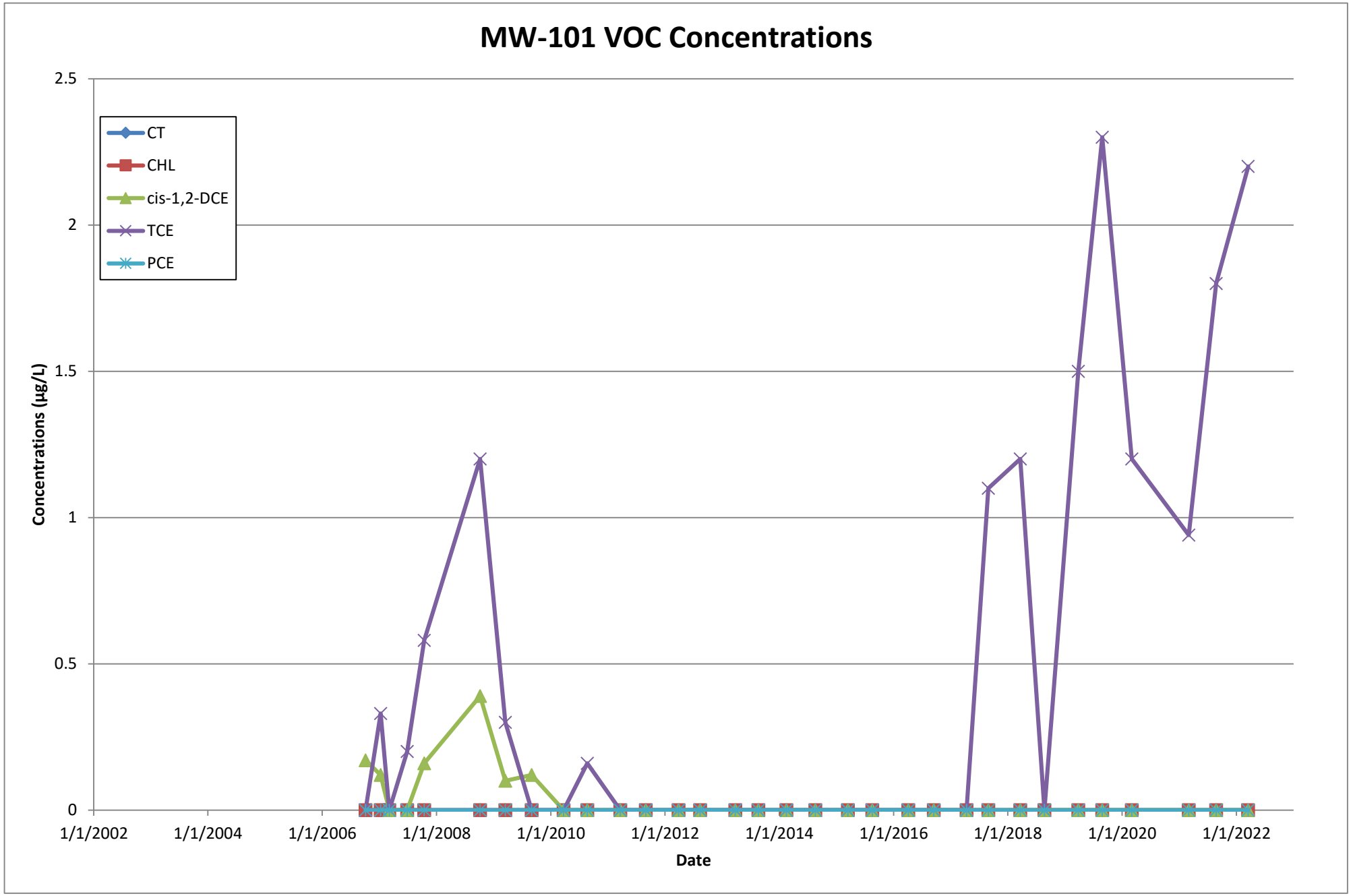

MW-28 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

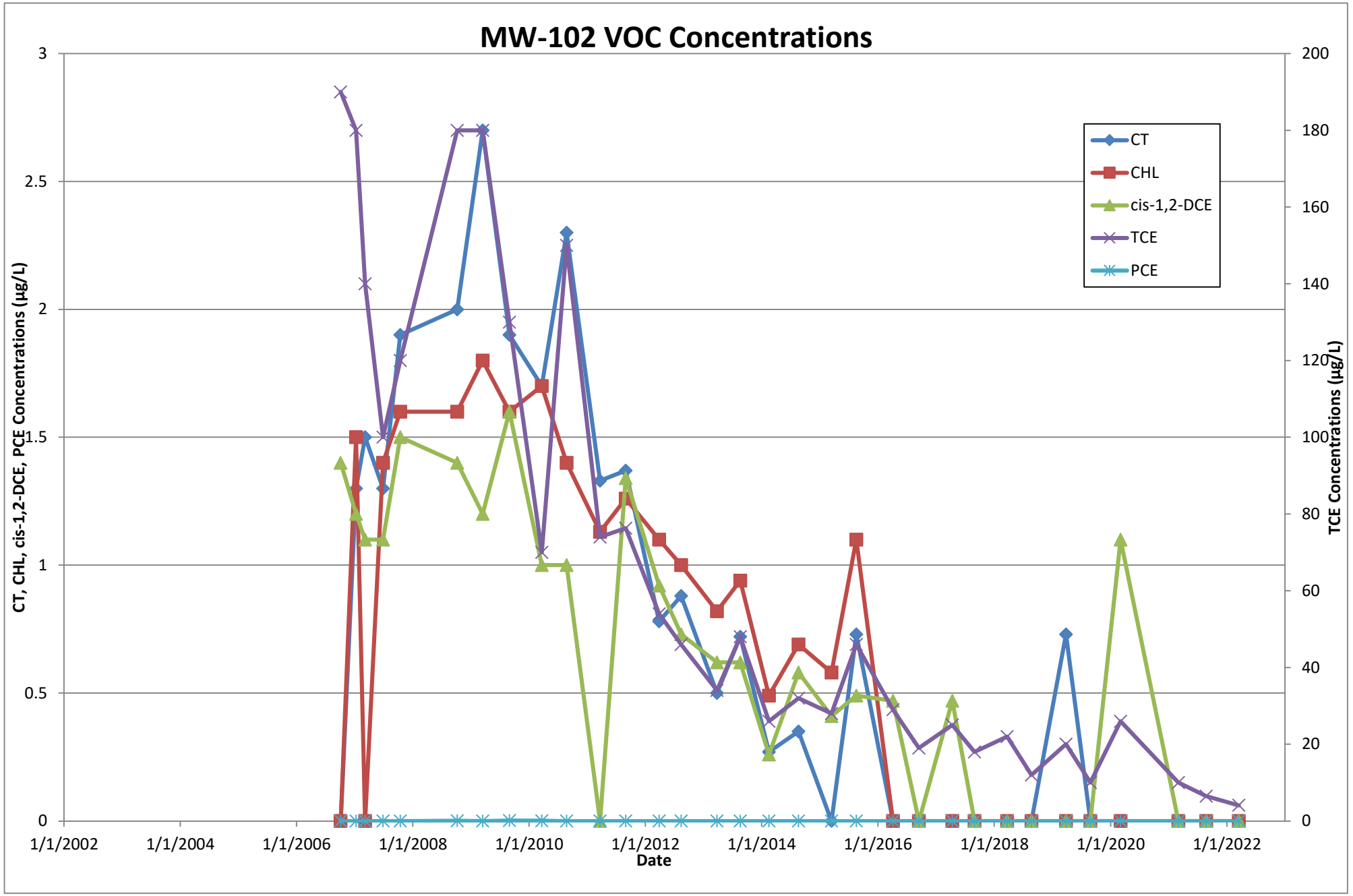

MW-29 VOC Concentrations
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

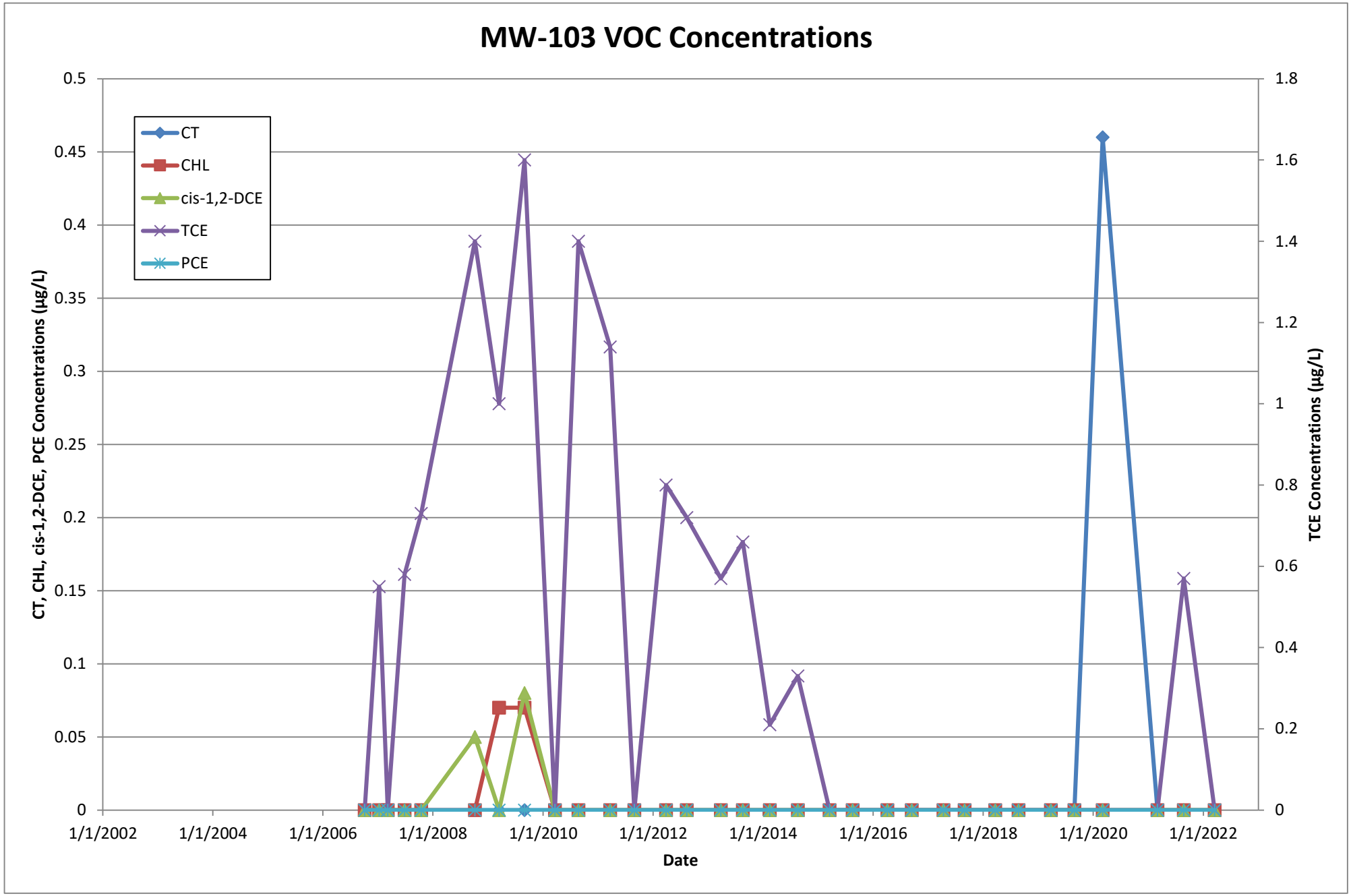

MW-30 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date


MW-31 VOC Concentrations
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
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
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
2
4
6
8
10
12
14
0
100
200
300
400
500
600
700
800
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


MW-101 VOC Concentrations
2.5
2
1.5
1
0.5
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
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
3
2.5
2
1.5
1
0.5
0
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


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
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
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



Sources: NAIP, 2021
Albany GIS, 2010.

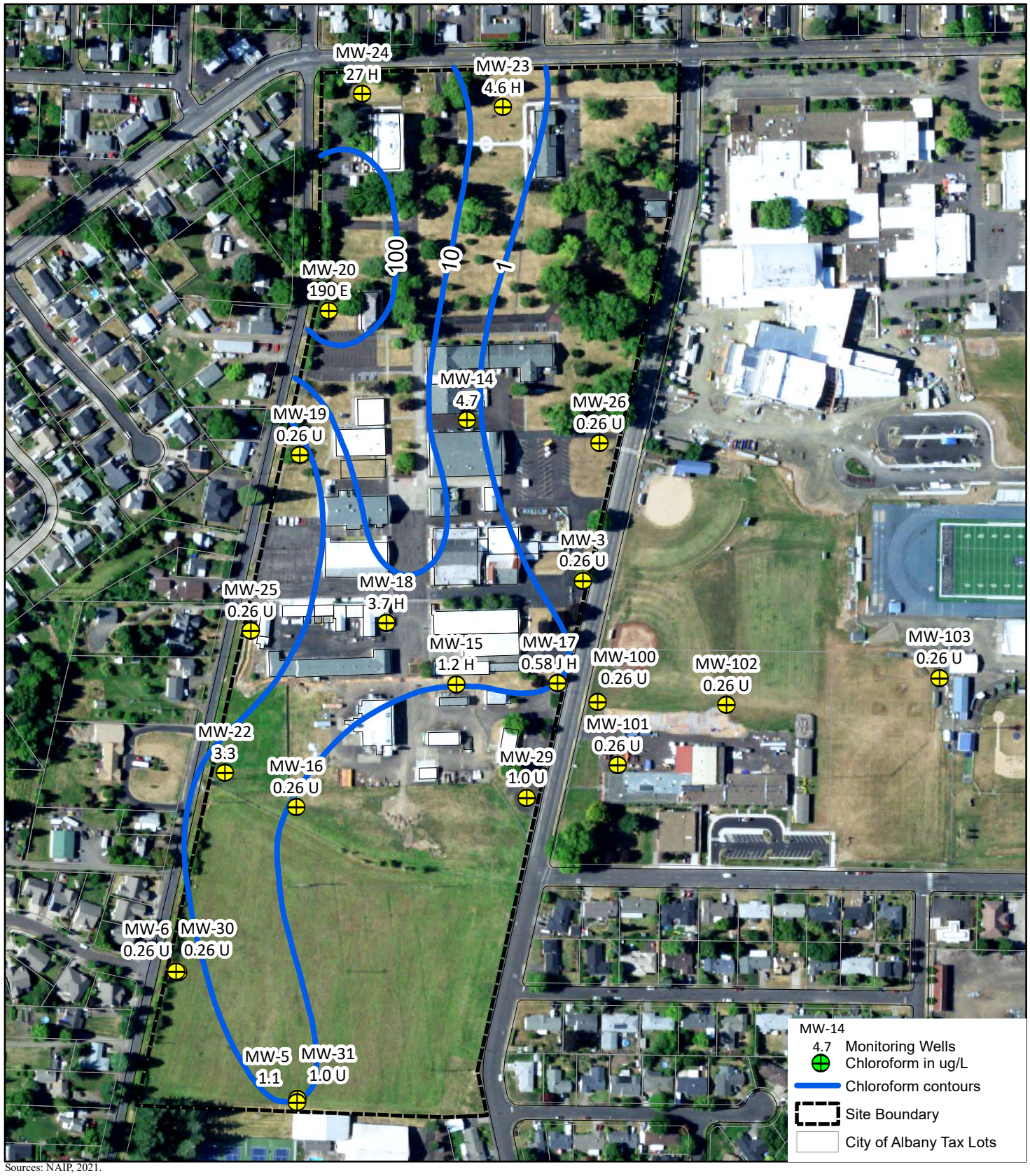
150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE GRAVEL AQUIFER, MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 7



Sources: NAIP, 2021.
Albany GIS, 2010.

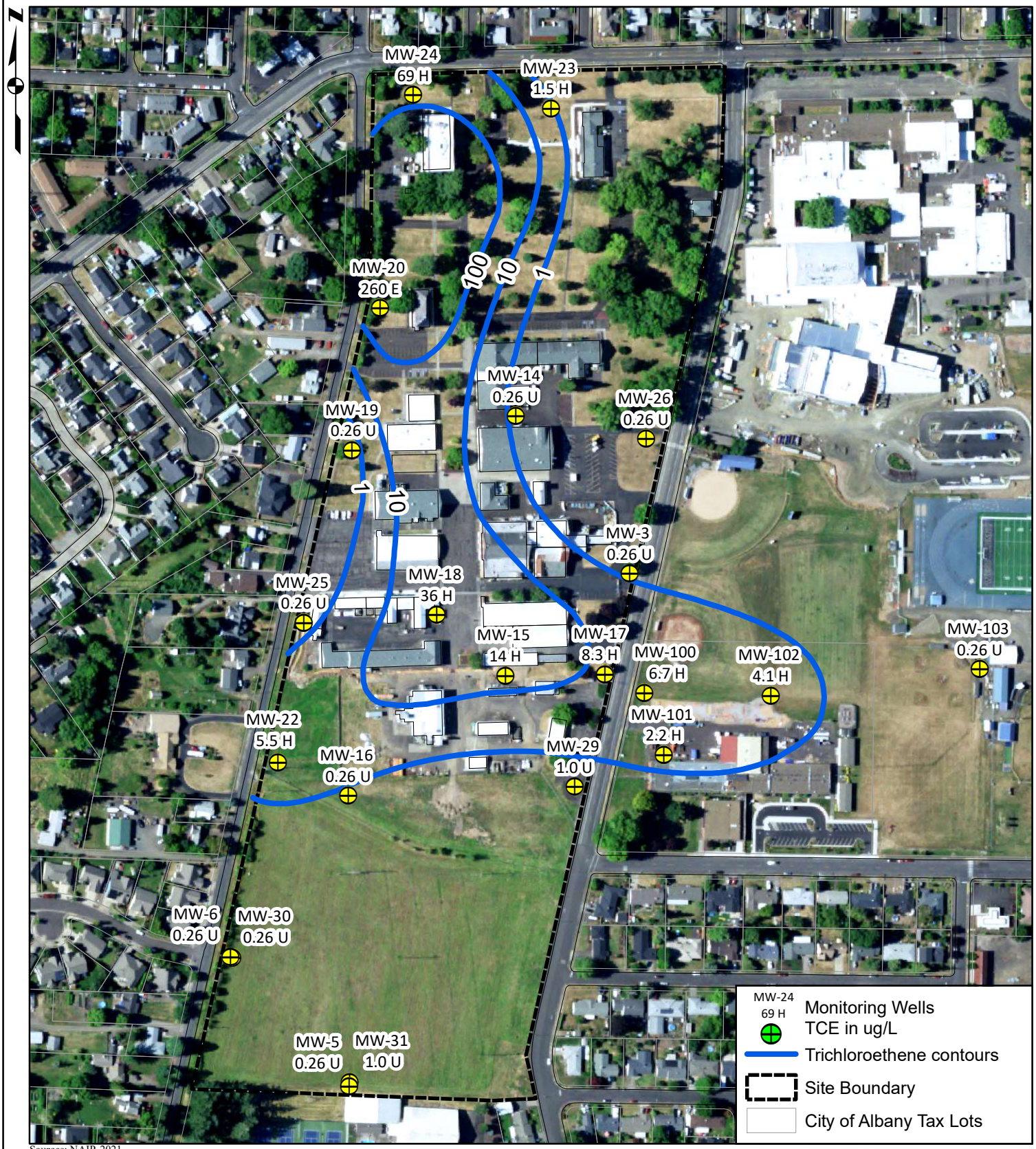
150 75 0 150 300
Feet

CONCENTRATION OF CHLOROFORM IN THE GRAVEL AQUIFER, MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 8



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF TRICHLOROETHENE IN THE GRAVEL AQUIFER, MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 9



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF TETRACHLOROETHENE IN THE GRAVEL AQUIFER, MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 10



Sources: NAIP, 2021.
Albany GIS, 2010.

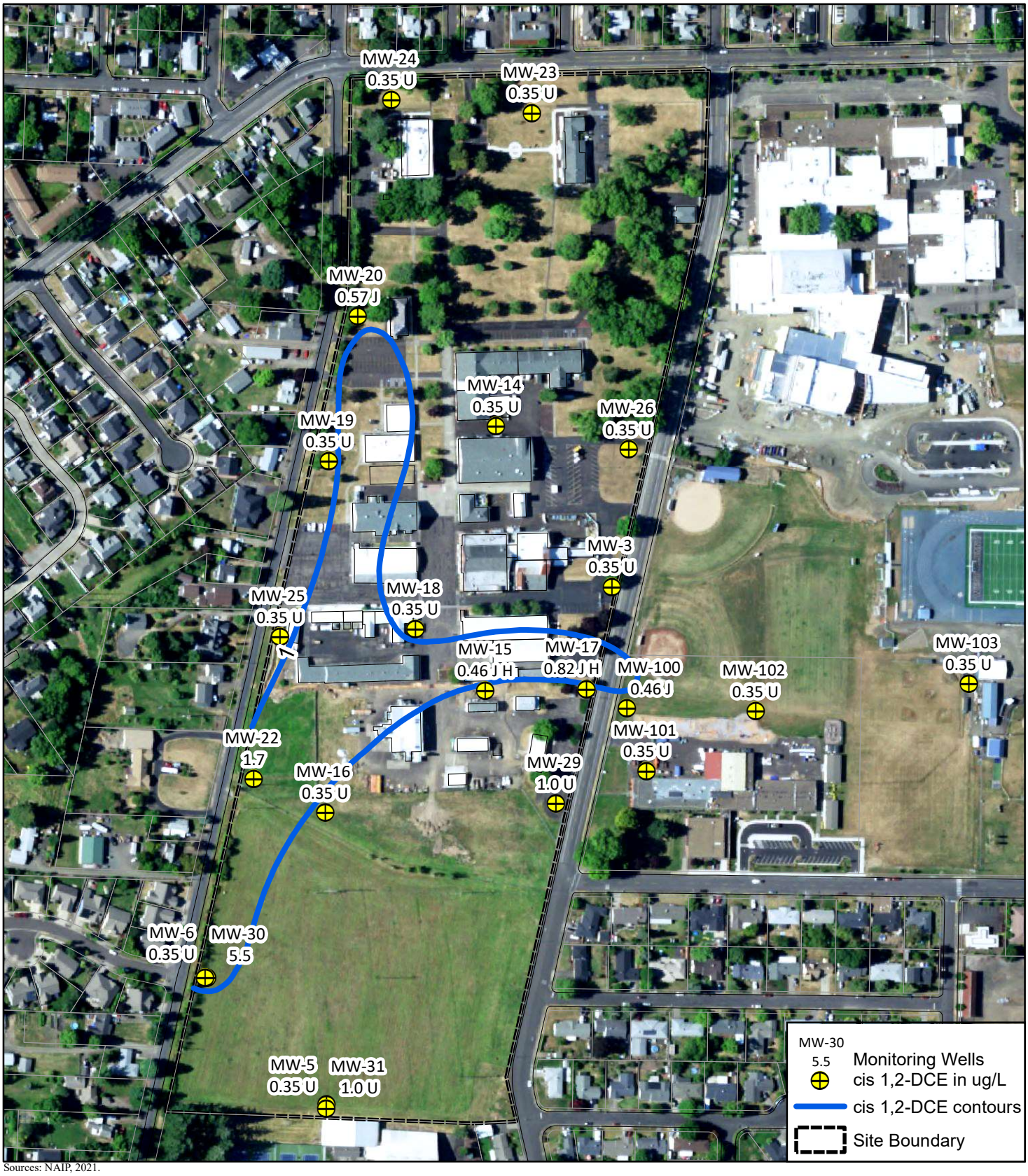
150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE PERCHED AQUIFER MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 11



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF CIS 1,2-DCE IN THE GRAVEL AQUIFER, MARCH 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2022

FIGURE 12

APPENDICES

APPENDIX A. Monitoring Well Sampling Field Logs

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW1

Project No.: 6506-16 **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** —

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

Depth to Water: 19.17 (ft)

Total Well Depth 28.32 (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: ~~Dedicated Bladder Pump~~

Field Testing Equipment: — E-Tape

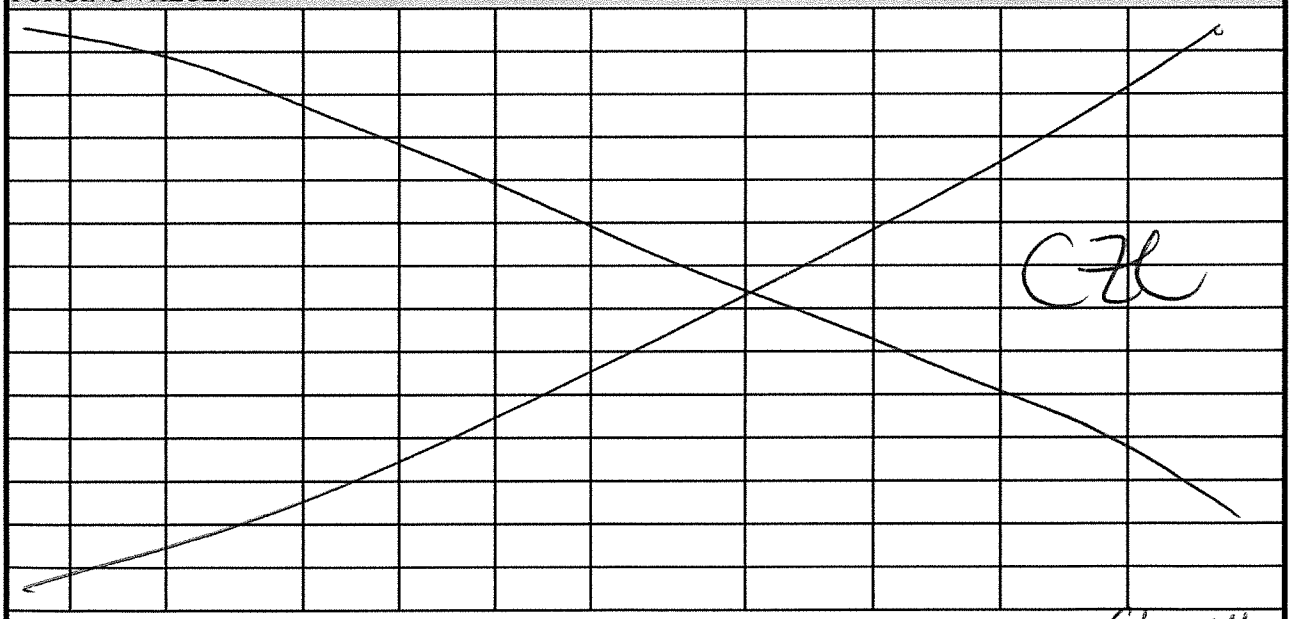
Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

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

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: — Chairello

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

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

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

QA/QC Sample I.D.:

Sample Start Time: NA **End SampleTime:** NA

COMMENTS:

PID: NA

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW3

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Cloudy Sampling Date: 3/15/22

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

Depth to Water: 8.67 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1236 End Purge Time: 1256

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		8.67	6.37	15.3	0.220	225.19	6.81	164.4	
1	5		8.70	6.50	15.2	0.214	41.57	6.45	140.3	
2	10		8.70	6.52	15.2	0.213	10.88	6.38	129.7	
3	15		8.70	6.53	15.3	0.212	6.50	6.39	126.5	
4	20		8.70	6.54	15.4	0.212	2.43	6.40	125.3	

SAMPLE COLLECTION DATA Sampled by: Chane' Long

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

Sample I.D. (Name, Date, Time): MW3, 3/15/22, 1257

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

QA/QC Sample I.D.:

Sample Start Time: 1257 End SampleTime: 1259

COMMENTS: Dup 1 @ 12:57

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW4

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/15/22

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

Depth to Water: 1.40 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1358 End Purge Time: ~~1333~~ 1412

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		1.40	7.29	14.1	0.372	89.22	5.33	118.7	
1	5		1.50	~~16.68~~	13.7	0.375	23.60	1.28	115.1	
2	10		1.50	6.64	13.6	0.374	18.03	1.17	111.5	
3	15		1.50	6.63	13.6	0.373	4.38	1.14	108.7	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW4, 3/15/22, 1413

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

QA/QC Sample I.D.: _____

Sample Start Time: 1413 End SampleTime: 1415

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW5

Project No.:	0506-16	**Client:**	NETL-Albany
Project Name:	First SA Wet Season Event 2022	**Project Location:**	Albany, OR
Weather Conditions:	sunny	**Sampling Date:**	3/15/22

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

Depth to Water: 10.25 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: YSI
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1750 **End Purge Time:** 1810

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		10.30	7.05	12.2	0.342	64.33	8.10	102.2	
1	5		10.60	6.94	12.8	0.373	195.61	2.26	98.0	
2	10		10.80	6.98	12.9	0.376	12.31	0.96	90.9	
3	15		10.86	6.96	12.8	0.373	12.08	0.95	85.5	
4	20		10.95	6.93	12.9	0.363	11.86	0.93	80.6	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps
Sample I.D. (Name, Date, Time): MW5, 3/15/22, 1811
Sample Analytical Parameters/Method: (VOCs)Method 8260D
QA/QC Sample I.D.: _____

Sample Start Time: 1811 **End SampleTime:** 1813

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW6

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/17/22

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

Depth to Water: 12.20 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1324 End Purge Time: 1344

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		12.20	6.91	12.1	0.135	27.5	9.05	72.7	
1	5		12.75	5.97	12.2	0.101	5.03	8.15	92.6	
2	10		12.80	5.88	12.2	0.100	0.12	8.13	108.9	
3	15		12.80	5.84	12.1	0.099	0.27	8.00	115.2	
4	20		12.80	5.82	12.1	0.098	0.37	7.98	118.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW6, 3/17/22, 1345

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

QA/QC Sample I.D.: _____

Sample Start Time: 1345 End SampleTime: 1347

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW7

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/17/22

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

Depth to Water: 1.15 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1020 End Purge Time: 1035

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		1.15	6.52	11.3	0.287	37.02	8.07	114.0	
1	5		3.30	6.10	11.5	0.291	0.05	4.32	121.5	
2	10		3.60	6.10	11.5	0.293	0.38	4.25	123.5	
3	15		3.80	6.10	11.6	0.294	0.15	4.21	125.9	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW7, 3/17/22, 1036

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

QA/QC Sample I.D.: _____

Sample Start Time: 1036 End SampleTime: 1038

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW8

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sampling Date: 3/16/22

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

Depth to Water: 7.73 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1510 End Purge Time: 1530

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		7.73	6.66	13.6	0.170	24.27	8.06	126.6	
1	5		8.80	6.21	13.8	0.155	13.30	1.77	128.7	
2	10		9.50	6.19	13.8	0.155	2.28	1.52	127.3	
3	15		9.70	6.19	13.8	0.156	1.69	1.43	125.9	
4	20		9.80	6.21	13.9	0.158	0.18	1.37	124.1	

SAMPLE COLLECTION DATA Sampled by:

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

Sample I.D. (Name, Date, Time): MW8, 3/16/22, 1531

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

QA/QC Sample I.D.:

Sample Start Time: 1531 End SampleTime: 1533

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW9

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 1.05 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1356 End Purge Time: 1421

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		1.05	6.84	12.6	0.190	9.16	9.74	101.9	
1	5		1.50	5.69	12.1	0.084	3.87	1.24	131.2	
2	10		1.60	5.55	12.0	0.083	2.04	0.97	150.5	
3	15		1.65	5.48	11.9	0.081	1.96	0.85	168.1	
4	20		1.65	5.44	11.8	0.081	1.84	0.83	171.0	
5	25		1.65	5.44	11.8	0.081	1.76	0.83	176.8	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW9, 3/16/22, 1422

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

QA/QC Sample I.D.: _____

Sample Start Time: 1422 End SampleTime: 1424

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW10

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

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/16/22

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

Depth to Water: 1.30 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1040 **End Purge Time:** 1100

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		1.30	6.71	13.5	0.143	49.07	4.02	57.1	
1	5		1.80	5.96	13.6	0.125	37.12	1.66	82.1	
2	10		1.70	5.88	13.2	0.124	12.17	1.53	96.8	
3	15		1.70	5.87	13.1	0.124	11.53	1.40	101.4	
4	20		1.70	5.85	13.0	0.123	11.21	1.23	105.8	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW10, 3/16/22, 1101

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

QA/QC Sample I.D.:

Sample Start Time: 1101 **End SampleTime:** 1103

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW11

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 5.75 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1735 End Purge Time: 1750

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		5.75	7.01	12.7	0.072	20.99	10.19	130.3	
1	5		6.25	5.55	12.6	0.083	12.87	7.17	156.1	
2	10		6.45	5.51	12.6	0.083	12.63	6.99	162.5	
3	15		6.60	5.49	12.6	0.082	12.48	6.99	165.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW11, 3/16/22, 1751

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

QA/QC Sample I.D.: _____

Sample Start Time: 1751 End SampleTime: 1753

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW13

Project No.:	0506-16	**Client:**	NETL-Albany
Project Name:	First SA Wet Season Event 2022	**Project Location:**	Albany, OR
Weather Conditions:	Sunny	**Sampling Date:**	3/15/22

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

Depth to Water: 9.75 (ft)
Total Well Depth _____ (ft)
Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump
Field Testing Equipment: YSI
Required Total Purge Volume (gals.): _____
Total Volume Purged: _____
Begin Purge Time: 1638 **End Purge Time:** 1654

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		9.75	6.56	14.6	0.175	8.69	3.42	86.0	
1	5		10.16	6.38	14.6	0.176	2.70	2.84	92.3	
2	10		10.15	6.34	14.5	0.178	2.28	2.77	97.2	
3	15		10.20	6.32	14.5	0.173	2.40	2.72	101.2	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps
Sample I.D. (Name, Date, Time): MW13, 3/15/22, 1655
Sample Analytical Parameters/Method: (VOCs)Method 8260D
QA/QC Sample I.D.:

Sample Start Time: 1655 **End SampleTime:** 1657

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW14

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 14.30 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1223 End Purge Time: 1243

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		14.30	7.30	19.8	0.153	55.88	9.32	79.7	
1	5		14.30	6.70	16.3	0.146	111.60	7.67	87.2	
2	10		14.30	6.48	16.4	0.144	9.85	7.61	98.1	
3	15		14.30	6.46	16.3	0.144	9.69	7.60	102.5	
4	20		14.30	6.43	16.2	0.142	9.61	7.58	107.2	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW14, 3/16/22, 1244

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

QA/QC Sample I.D.: _____

Sample Start Time: 1244 End SampleTime: 1246

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW15

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/15/22

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

Depth to Water: 1205 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1554 End Purge Time: 1619

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		12.05	7.08	13.9	0.253	1.65	8.75	71.5	
1	5		12.05	6.63	15.4	6.291	38.74	4.02	68.9	
2	10		12.05	6.52	15.8	0.251	23.72	5.03	74.5	
3	15		12.06	6.48	15.5	0.207	6.22	5.52	81.0	
4	20		12.10	6.46	15.5	0.201	6.12	5.68	89.0	
5	25		12.10	6.45	15.5	0.200	6.01	5.69	91.0	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW15, 3/15/22, 1620

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

QA/QC Sample I.D.: _____

Sample Start Time: 1620 End SampleTime: 1622

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW16

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/17/22

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: Peristaltic Pump ~~Dedicated Bladder Pump~~

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1043 End Purge Time: ~~1113~~ 1103

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	6		5.90	6.31	12.4	0.255	206.17	6.15	117.9	
1	5		5.90	6.24	12.6	0.258	73.21	5.21	105.2	
2	10		5.90	6.24	12.3	0.259	12.66	5.04	98.5	
3	15		5.90	6.24	12.4	0.259	12.48	4.95	93.4	
4	20		5.80	6.23	12.5	0.256	12.42	5.21	97.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

Sampling Method(s) & Equip: ~~Low Flow using QED Bladder Pumps.~~ Peristaltic Pump

Sample I.D. (Name, Date, Time): MW16, 3/17/22, 1104

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

QA/QC Sample I.D.: _____

Sample Start Time: 1104 End SampleTime: 1106

COMMENTS: Bladder pump did not work, so switched to peri pump. No issues w/ changed purge method.

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW17

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

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/15/22

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

Depth to Water: 7.89 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1312 **End Purge Time:** 1337

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		7.89	7.32	15.1	0.303	17.69	6.14	119.1	
1	5		7.98	7.06	15.7	0.260	8.50	2.23	109.4	
2	10		8.00	7.02	15.7	0.261	2.51	2.03	102.7	
3	15		8.00	7.03	15.7	0.264	0.90	1.76	98.2	
4	20		8.00	7.04	15.6	0.265	0.66	1.63	96.1	
5	25		8.00	7.05	15.5	0.267	0.24	1.52	93.8	

SAMPLE COLLECTION DATA Sampled by: Chenel Long

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

Sample I.D. (Name, Date, Time): MW17, 3/15/22, 1338

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

QA/QC Sample I.D.:

Sample Start Time: 1338 **End SampleTime:** 1340

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW18

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 13.13 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1605 End Purge Time: 1630

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										
6	0		13.13	7.02	19.2	0.404	12.02	9.60	133.4	
1	5		13.15	6.93	16.8	0.376	41.62	3.08	118.6	
2	10		13.15	6.93	16.6	0.377	36.25	2.75	109.2	
3	15		13.15	6.92	16.6	0.377	8.77	2.66	102.4	
4	20		13.15	6.92	16.7	0.378	8.13	2.61	98.1	
5	25		13.15	6.92	16.6	0.379	7.95	2.62	94.0	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW18, 3/16/22, 1631

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

QA/QC Sample I.D.: _____

Sample Start Time: 1631 End SampleTime: 1633

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW19

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 13.60 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1320 End Purge Time: 1340

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		13.60	6.94	18.6	0.143	41.30	5.67	101.2	
1	5		13.70	6.34	14.6	0.160	4.28	0.65	99.2	
2	10		13.80	6.34	14.0	0.167	4.17	0.38	95.5	
3	15		13.80	6.30	14.2	0.168	3.63	0.25	93.3	
4	20		13.80	6.29	14.2	0.169	3.50	0.20	91.7	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW19, 3/16/22, 1341

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

QA/QC Sample I.D.: _____

Sample Start Time: 1341 End SampleTime: 1343

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW20

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 15.80 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1010 End Purge Time: 1030

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		15.80	7.25	13.9	0.385	42.16	6.46	92.2	
1	5		15.80	6.93	14.4	0.437	79.80	1.29	73.2	
2	10		15.80	6.94	14.3	0.433	11.18	1.08	67.5	
3	15		15.80	6.94	14.4	0.424	10.97	0.95	59.6	
4	20		15.80	6.94	14.5	0.423	10.11	0.90	57.9	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW20, 3/16/22, 1031

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

QA/QC Sample I.D.: _____

Sample Start Time: 1031 End SampleTime: 1033

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW21

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

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Over **Sampling Date:** 3/17/22

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

Depth to Water: 5.55 (ft)

Total Well Depth 28.95 (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: ~~Dedicated Bladder Pump~~ NA

Field Testing Equipment: ~~XXX~~ E-Tape

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: Chanel Long

Sampling Method(s) & Equip: ~~Low Flow using QED Bladder Pumps~~ E-Tape

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

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

QA/QC Sample I.D.:

Sample Start Time: **End SampleTime:**

COMMENTS: only measure Depth to water & Depth to bottom of well

PID:

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW22

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

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Overcast **Sampling Date:** 3/17/22

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

Depth to Water: 5.70 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1274 **End Purge Time:** 1244

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		5.70	7.12	11.9	0.294	22.20	8.08	110.9	
1	5		5.80	6.78	12.6	0.300	18.53	0.71	13.0	
2	10		5.80	6.80	12.6	0.294	2.08	0.34	16.6	
3	15		5.80	6.81	12.6	0.293	1.00	0.22	19.4	
4	20		5.80	6.81	12.6	0.293	0.44	0.16	20.5	

SAMPLE COLLECTION DATA Sampled by: _____

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

Sample I.D. (Name, Date, Time): MW22, 3/17/22, 1245

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

QA/QC Sample I.D.: _____

Sample Start Time: 1245 **End SampleTime:** 1247

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW23

Project No.: ~~0~~ 0506-160 Client: NETL-Albany

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 18.95 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0854 End Purge Time: 0914

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		18.95	7.03	13.8	0.325	1.74	9.60	124.3	
1	5		19.00	7.29	13.8	0.280	16.45	6.93	88.9	
2	10		19.00	7.30	13.8	0.274	3.18	6.78	80.0	
3	15		19.00	7.30	13.9	0.268	6.38	6.64	72.6	
4	20		19.00	7.30	13.9	0.267	0.09	6.63	71.9	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW23, 3/16/22, 0915

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

QA/QC Sample I.D.: _____

Sample Start Time: 0915 End SampleTime: 0917

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW24

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 18.30 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1800 End Purge Time: 1820

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										
6	0		18.30	6.12	14.5	0.308	7.70	9.97	172.9	
1	5		18.30	7.00	14.0	0.309	6.88	2.22	138.7	
2	10		18.30	7.09	13.5	0.311	6.03	1.84	125.5	
3	15		18.30	7.09	13.6	0.311	5.13	1.69	119.4	
4	20		18.30	7.10	13.6	0.311	5.20	1.61	116.0	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW24, 3/16/22, 1821

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

QA/QC Sample I.D.:

Sample Start Time: 1821 End SampleTime: 1823

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW25

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

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/16/22

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

Depth to Water: 8.65 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1444 **End Purge Time:** 1504

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		8.65	6.41	14.1	0.183	18.00	7.21	161.2	
1	5		8.80	6.42	15.0	0.176	5.70	2.35	138.4	
2	10		9.05	6.40	14.2	0.177	0.23	1.70	129.4	
3	15		9.05	6.40	14.3	0.177	0.54	1.67	125.3	
4	20		9.10	6.41	14.4	0.178	0.09	1.60	120.8	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW25, 3/16/22, 1505

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

QA/QC Sample I.D.:

Sample Start Time: 1505 **End SampleTime:** 1507

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 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 10.30 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1137 End Purge Time: 1203

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										
6	0		10.30	6.65	15.2	0.184	87.74	5.44	114.89	
1	5		12.40	6.60	15.1	0.182	104.20	4.73	112.5	
2	10		12.90	6.59	15.1	0.184	22.13	4.50	110.8	
3	15		13.50	6.59	15.2	0.190	8.67	4.20	104.9	
4	20		13.70	6.60	15.4	0.194	8.50	4.12	98.7	
5	25		13.78	6.61	15.4	0.199	8.41	3.99	96.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW26, 3/16/22, 1204

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

QA/QC Sample I.D.: _____

Sample Start Time: 1204 End SampleTime: 1206

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW27

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/15/22

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

Depth to Water: 8.55 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1513 End Purge Time: 1538

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		8.90	7.79	14.1	0.266	2.57	8.20	24.8	
1	5		9.65	7.05	13.8	0.260	0.39	7.39	31.5	
2	10		9.90	6.85	13.7	0.257	0.43	6.91	39.6	
3	15		10.15	6.78	13.7	0.255	0.16	6.41	46.1	
4	20		10.30	6.80	13.7	0.258	0.10	6.48	53.1	
5	25		10.75	6.76	13.7	0.261	0.05	6.26	54.5	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW27, 3/15/22, 1539

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

QA/QC Sample I.D.: _____

Sample Start Time: _____ End SampleTime: 1541

COMMENTS: 1539

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW28

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/16/22

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

Depth to Water: 3.20 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1644 End Purge Time: 1704

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		3.20	7.74	14.2	0.103	44.23	6.86	81.2	
1	5		5.65	7.03	13.8	0.098	30.01	5.20	89.4	
2	10		7.10	6.87	13.6	0.098	20.69	5.13	94.9	
3	15		7.60	6.81	13.7	0.099	10.77	5.02	97.9	
4	20		8.20	6.79	13.8	0.099	10.09	4.99	100.2	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW28, 3/16/22, 1705

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

QA/QC Sample I.D.:

Sample Start Time: 1705 End SampleTime: 1707

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW29

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/15/22

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

Depth to Water: 7.18 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1423 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	80		8.30	7.00	16.0	0.527	124.55	3.00	48.4	
1	5		9.70	7.03	16.1	0.523	98.07	0.35	6.4	
2	10		10.20	7.04	15.9	0.520	29.70	0.21	-11.0	
3	15		10.30	7.03	15.9	0.519	9.37	0.14	-51.5	
4	20		10.00	7.06	15.9	0.515	9.01	0.13	-68.2	
5	25		10.20	7.08	16.0	0.508	8.84	0.07	-62.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW29, 3/15/22, 1449

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

QA/QC Sample I.D.:

Sample Start Time: 1449 End SampleTime: 1451

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW30

Project No.: 05016-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Raining Sampling Date: 3/17/22

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

Depth to Water: 11.20 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1351 End Purge Time: 1416

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		11.20	6.32	12.3	0.310	11.86	8.13	128.7	
1	5		12.05	6.72	12.9	0.336	11.13	0.60	-57.8	
2	10		12.10	6.84	13.0	0.332	10.17	0.38	-77.0	
3	15		11.80	6.90	12.7	0.331	9.06	0.29	-79.2	
4	20		11.80	6.97	12.8	0.330	8.94	0.25	-82.4	
5	25		11.80	6.98	12.8	0.329	8.90	0.23	-88.6	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW30, 3/17/22, 1417

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

QA/QC Sample I.D.:

Sample Start Time: 1417 End SampleTime: 1419

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW31

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/15/22

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

Depth to Water: 9.35 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1820 End Purge Time: 1840

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		9.35	7.11	12.9	0.371	146.83	7.77	95.5	
1	5		9.58	7.07	12.9	0.394	56.12	0.23	-96.5	
2	10		9.58	7.14	13.0	0.394	8.17	0.12	-119.3	
3	15		9.58	7.18	13.0	0.394	7.96	0.07	-122.2	
4	20		9.60	7.20	13.0	0.393	7.76	0.05	-126.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW31, 3/15/22, 1841

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

QA/QC Sample I.D.:

Sample Start Time: 1841 End SampleTime: 1843

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW100

Project No.: 05016-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/17/22

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

Depth to Water: 7.30 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1615 End Purge Time: 1635

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										
6	0		7.30	7.61	16.3	0.452	60.74	8.94	58.6	
1	5		7.30	6.94	14.8	0.506	20.21	1.17	52.9	
2	10		7.40	6.91	14.9	0.500	7.13	0.78	48.5	
3	15		7.40	6.90	14.9	0.502	6.88	0.74	46.2	
4	20		7.40	6.87	14.9	0.512	6.73	0.61	44.7	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW100, 3/17/22, 1636

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

QA/QC Sample I.D.: _____

Sample Start Time: 1636 End SampleTime: 1638

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW101

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

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/17/22

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

Depth to Water: 7.50 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1548 End Purge Time: 1608

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		7.50	7.33	15.1	0.407	154.20	7.63	63.1	
1	5		7.60	7.07	16.4	0.358	43.11	3.48	51.5	
2	10		7.60	7.07	16.4	0.361	9.76	3.20	45.6	
3	15		7.60	7.08	16.4	0.362	9.68	3.15	44.9	
4	20		7.60	7.08	16.5	0.364	9.55	3.11	44.9	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW101, 3/17/22, 1609

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

QA/QC Sample I.D.: _____

Sample Start Time: 1609 End SampleTime: 1611

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW102

Project No.: 65016-16 Client: NETL-Albany

Project Name: First SA Wet Season Event 2022 Project Location: Albany, OR

Weather Conditions: Overcast Sampling Date: 3/17/22

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

Depth to Water: 6.40 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1645 End Purge Time: 1705

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		6.40	7.85	14.9	0.143	81.37	10.48	58.7	
1	5		6.50	7.19	13.9	0.366	26.31	1.47	52.3	
2	10		6.50	7.20	13.6	0.317	9.12	1.74	49.8	
3	15		6.50	7.18	13.6	0.308	9.00	1.79	49.9	
4	20		6.50	7.18	13.6	0.306	8.87	1.82	50.4	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW102, 3/17/22, 1706

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

QA/QC Sample I.D.:

Sample Start Time: 1706 End SampleTime: 1708

COMMENTS: Dup 2 collected 1708-1710

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW103

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

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Raining **Sampling Date:** 3/17/22

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

Depth to Water: 5.60 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1724 **End Purge Time:** 1744

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		5.60	7.05	13.8	0.287	38.36	7.82	83.7	
1	5		5.60	6.94	13.9	0.351	1.18	2.60	72.8	
2	10		5.60	6.92	13.9	0.353	0.63	2.08	68.9	
3	15		5.60	6.92	14.0	0.353	0.45	1.87	63.8	
4	20		5.60	6.92	14.0	0.352	0.40	1.83	62.1	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW103 3/17/22, 1745

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

QA/QC Sample I.D.: _____

Sample Start Time: 1745 **End SampleTime:** 1744

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: PZ-1A

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

Project Name: First SA Wet Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 3/15/22

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

Depth to Water: 8.11 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: ~~Dedicated Bladder Pump~~

Field Testing Equipment: E-tape

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: Chanel Long

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 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 3/15/22

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

Depth to Water: 8.84 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: ~~Dedicated Bladder Pump~~

Field Testing Equipment: E-tape

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: Chanel Long

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: _____

APPENDIX B. EurofinsTestamerica Laboratories Analytical Reports

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-135473-1
Client Project/Site: Dept of Energy- NETL - Albany, OR
Revision: 1

For:
WE2 Support Services
1450 Queen Avenue SW
Albany, Oregon 97321

Attn: Mark Thomas

Authorized for release by:
4/21/2022 3:34:56 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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Job ID: 180-135473-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative
180-135473-1 RE

Note
This report has been revised. Two runs have been reported for sample MW20 (180-135473-18) as per the client.

Receipt
The samples were received on 3/18/2022 12:40 PM. 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 3.0º C.

GC/MS VOA
Due to the concentration of target compounds detected and/or matrix, several samples were analyzed at a dilution. The reporting limits have been adjusted accordingly.

Several samples were re-analyzed outside of the holding time due to QC failures. The results are flagged with an "H" qualifier.

Several samples had surrogates recover above the control limits. These samples were non-detect for all target compounds. All data was reported.

Several samples were initially put on to run within the holding time. The instrument stopped and did run these samples within the holding time. The client was contacted and the samples were re-analyzed outside of the holding time. The results are flagged with an "H" qualifier.

Sample MW30 (180-135473-27) was analyzed outside of the holding time and had surrogates recover outside of the control limits. There was insufficient sample volume for re-analysis. All data was reported "as is".

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-385515 recovered outside control limits for the following analytes: sec-Butylbenzene, trans-1,3-Dichloropropene, 4-Isopropyltoluene, 1,2,4-Trimethylbenzene, Naphthalene, Methyl tert-butyl ether, cis-1,3-Dichloropropene and 1,2,3-Trichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-385935 recovered outside control limits for the following analytes: Dibromomethane, 1,3-Dichloropropane and 1,1,2-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-385667 recovered outside control limits for the following analytes: 1,2-Dichlorobenzene, 2-Chlorotoluene, 1,2,3-Trichloropropane, Carbon tetrachloride, cis-1,3-Dichloropropene, sec-Butylbenzene, Dibromomethane, m-Xylene & p-Xylene, 1,2,4-Trichlorobenzene, Styrene, Chlorobromomethane, Dichlorobromomethane, 1,3-Dichlorobenzene, Chloroethane, trans-1,3-Dichloropropene, 1,2,3-Trichlorobenzene, o-Xylene, 4-Isopropyltoluene, n-Butylbenzene, 1,1-Dichloropropene, cis-1,2-Dichloroethene, 1,2,4-Trimethylbenzene, Napthalene, 1,3,5-Trimethylbenzene, Chloroform, Chlorodibromomethane, tert-Butylbenzene, 1,1-Dichloroethene, Isopropylbenzene, 1,2-Dichloroethane, Tetrachloroethene, 1,1,1-Trichloroethane, 2,2-Dichloropropane, Ethylene Dibromide, Bromoform, 1,2-Dibromo-3-Chloropropane, Trichlorofluoromethane, Trichloroethene, Bromobenzene, Methyl tert-butyl ether, 1,1,1,2-Tetrachloroethane, Ethylbenzene, trans-1,2-Dichloroethene, Hexachlorobutadiene and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The relative percent difference between the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-385667 recovered outside control limits for the following analytes: 1,2-Dichlorobenzene, 2-Chlorotoluene, Chlorobenzene, sec-Butylbenzene, Dibromomethane, m-Xylene & p-Xylene, 1,2,4-Trichlorobenzene, Styrene, Chlorobromomethane, Dichlorobromomethane, Benzene, trans-1,3-Dichloropropene, N-Propylbenzene, o-Xylene, 4-Isopropyltoluene, n-Butylbenzene, 1,1-Dichloropropene, cis-1,2-Dichloroethene, 1,1,1,2-Tetrachloroethane, 1,2,4-Trimethylbenzene, Toluene, Napthalene, 1,3,5-Trimethylbenzene, 1,3-Dichloropropane, Chloroform, Chlorodibromomethane, 1,1,2-Trichloroethane, tert-Butylbenzene, Isopropylbenzene, Tetrachloroethene, Ethylene Dibromide, 1,2-Dibromo-3-Chloropropane, Trichloroethene, 1,2-Dichloropropane, 1,4-Dichlorobenzene, 1,1,2,2-Tetrachloroethane, Ethylbenzene, trans-1,2-Dichloroethene, 1,1-Dichloroethane 1,2,3-Trichlorobenzene,

Job ID: 180-135473-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

1,2-Dichloroethane and Hexachlorobutadiene.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-385667 recovered outside control limits for the following analytes: 4-Bromofluorobenzene (Surr) and 1,2-Dichloroethane-d4 (Surr). These analytes were biased high in the LCS and reported analytes were non-detect, therefore; re-analysis did not occur.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-385641 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-385858 recovered outside control limits for the following analytes: Chloroethane, 1,2-Dichlorobenzene, Carbon tetrachloride, Dibromomethane, 1,2,4-Trichlorobenzene, Dichlorobromomethane, trans-1,3-Dichloropropene, 1,2,3-Trichlorobenzene, o-Xylene, 4-Isopropyltoluene, Napthalene, Chlorodibromomethane, 1,1-Dichloroethene, Isopropylbenzene, 1,2-Dichloroethane, 1,1,1-Trichloroethane, 2,2-Dichloropropane, Bromoform, 1,2-Dibromo-3-Chloropropane, Trichlorofluoromethane, Methyl tert-butyl ether, 1,1,1,2-Tetrachloroethane, Hexachlorobutadiene and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The relative percent difference between the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-385858 recovered outside control limits for the following analytes: Chloroethane.

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

The continuing calibration verification (CCV) associated with batch 580-385515 recovered above the upper control limit for Methyl tert-butyl ether, Chloroethane, trans-1,3-Dichloropropene, 4-Isopropyltoluene, Naphthalene, 1,1-Dichloroethene and 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-385515 was outside criteria for the following analyte(s): 1,2,3-Trichlorobenzene. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

The CCV for analytical batch 580-385515 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane. Dichlorodifluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The CCV for analytical batch 580-385877 recovered outside control limits for the following analyte(s): 1,2,3-Trichlorobenzene. 1,2,3-Trichlorobenzene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 580-385667 recovered above the upper control limit for 1,2,3-Trichlorobenzene, Trichlorofluoromethane, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Napthalene, Methyl tert-butyl ether, 1,2-Dibromo-3-Chloropropane, Bromoform, Carbon tetrachloride, 2,2-Dichloropropane, 1,2-Dichloroethane, 1,1,1-Trichloroethane, Chloroethane, Chlorodibromomethane, 1,1-Dichloroethene, trans-1,3-Dichloropropene, Bromomethane, Dichlorobromomethane, Dibromomethane, Trichloroethane, 4-Isopropyltoluene, Ethylene Dibromide, 1,1,1,2-Tetrachloroethane and o-Xylene.

The continuing calibration verification (CCV) associated with batch 580-385641 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the have been reported.

The continuing calibration verification (CCV) associated with batch 580-385744 recovered above the upper control limit for vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-385858 recovered above the upper control limit for Trichlorofluoromethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Bromomethane, Chloroethane, Hexachlorobutadiene, Carbon tetrachloride, Napthalene, Bromoform, Dichlorofluoromethane, Vinyl Chloride, 1,2-Dichloroethane, 1,2-Dibromo-3-Chloropropane,

Job ID: 180-135473-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

2,2-Dichloropropane, 1,1-Dichloroethene, 1,1,1-Trichloroethane, Chlorodibromomethane, Methyl tert-butyl ether, Dibromomethane, Dichlorobromomethane, trans-1,3-Dichloropropene, Chloromethane, Trichloroethane, and 1,1,1,2-Tetrachloroethane.

GC/MS Semi VOA
The continuing calibration verification (CCV) associated with batch 580-386151 recovered above the upper control limit for 2,2'-oxybis[1-Chloropropane], Bis(2-ethylhexyl) phthalate, and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzyl alcohol and Hexachlorocyclopentadiene. These analytes may have a %D >60%.

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

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

Organic Prep
Method 3510C: The following samples formed emulsions during the extraction procedure: PURGE WATER (180-135473-1), (180-135473-A-1-A MS) and (180-135473-A-1-A MSD). The emulsions were broken up using additional sodium sulfate and dichloromethane. Otherwise, the procedure was followed according to the SOP.

Definitions/Glossary

Client: WE2 Support Services
Job ID: 180-135473-1
Project/Site: Dept of Energy- NETL - Albany, OR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
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: 180-135473-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-22

Sample Summary

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

Job ID: 180-135473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-135473-1	PURGE WATER	Water	03/18/22 10:00	03/18/22 12:40
180-135473-2	MW3	Water	03/15/22 12:57	03/18/22 12:40
180-135473-3	MW4	Water	03/15/22 14:13	03/18/22 12:40
180-135473-4	MW5	Water	03/15/22 18:11	03/18/22 12:40
180-135473-5	MW6	Water	03/17/22 13:45	03/18/22 12:40
180-135473-6	MW7	Water	03/17/22 10:36	03/18/22 12:40
180-135473-7	MW8	Water	03/16/22 15:31	03/18/22 12:40
180-135473-8	MW9	Water	03/16/22 14:22	03/18/22 12:40
180-135473-9	MW10	Water	03/16/22 11:01	03/18/22 12:40
180-135473-10	MW11	Water	03/16/22 17:51	03/18/22 12:40
180-135473-11	MW13	Water	03/15/22 16:55	03/18/22 12:40
180-135473-12	MW14	Water	03/16/22 12:44	03/18/22 12:40
180-135473-13	MW15	Water	03/15/22 16:20	03/18/22 12:40
180-135473-14	MW16	Water	03/17/22 11:04	03/18/22 12:40
180-135473-15	MW17	Water	03/15/22 13:38	03/18/22 12:40
180-135473-16	MW18	Water	03/16/22 16:31	03/18/22 12:40
180-135473-17	MW19	Water	03/16/22 13:41	03/18/22 12:40
180-135473-18	MW20	Water	03/16/22 10:31	03/18/22 12:40
180-135473-19	MW22	Water	03/17/22 12:45	03/18/22 12:40
180-135473-20	MW23	Water	03/16/22 09:15	03/18/22 12:40
180-135473-21	MW24	Water	03/16/22 18:21	03/18/22 12:40
180-135473-22	MW25	Water	03/16/22 15:05	03/18/22 12:40
180-135473-23	MW26	Water	03/16/22 12:04	03/18/22 12:40
180-135473-24	MW27	Water	03/15/22 15:39	03/18/22 12:40
180-135473-25	MW28	Water	03/16/22 17:05	03/18/22 12:40
180-135473-26	MW29	Water	03/15/22 14:49	03/18/22 12:40
180-135473-27	MW30	Water	03/17/22 14:17	03/18/22 12:40
180-135473-28	MW31	Water	03/15/22 18:41	03/18/22 12:40
180-135473-29	MW100	Water	03/17/22 16:36	03/18/22 12:40
180-135473-30	MW101	Water	03/17/22 16:09	03/18/22 12:40
180-135473-31	MW102	Water	03/17/22 17:06	03/18/22 12:40
180-135473-32	MW103	Water	03/17/22 17:45	03/18/22 12:40
180-135473-33	DUP1	Water	03/15/22 12:57	03/18/22 12:40
180-135473-34	DUP2	Water	03/17/22 17:08	03/18/22 12:40
180-135473-35	TRIP BLANK	Water	03/15/22 00:00	03/18/22 12:40

Method Summary

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

Job ID: 180-135473-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	FGS SEA
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	FGS SEA
6010D	Metals (ICP)	SW846	FGS SEA
7470A	Mercury (CVAA)	SW846	FGS SEA
1311	TCLP Extraction	SW846	FGS SEA
3010A	Preparation, Total Metals	SW846	FGS SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	FGS SEA
5030B	Purge and Trap	SW846	FGS SEA
7470A	Preparation, Mercury	SW846	FGS SEA

Protocol References:

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

Laboratory References:

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

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-135473-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: PURGE WATER
Lab Sample ID: 180-135473-1
Date Collected: 03/18/22 10:00
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	385550	03/29/22 11:56	JLS	FGS SEA
TCLP	Analysis	8260D		100	5 mL	5 mL	385744	03/31/22 04:28	JSM	FGS SEA
	Instrument ID: SEA102									
TCLP	Leach	1311			1.0 g	1.0 mL	385381	03/28/22 12:15	TMH	FGS SEA
TCLP	Prep	3510C			200 mL	2 mL	385676	03/30/22 10:28	KLW	FGS SEA
TCLP	Analysis	8270E		1			386151	04/03/22 03:42	T1L	FGS SEA
	Instrument ID: TAC051									
TCLP	Leach	1311			1.0 g	1.0 mL	385381	03/28/22 12:15	TMH	FGS SEA
TCLP	Prep	3010A			50 mL	50 mL	385563	03/29/22 13:39	JLS	FGS SEA
TCLP	Analysis	6010D		1			385714	03/30/22 12:18	JLS	FGS SEA
	Instrument ID: TAC047									
TCLP	Leach	1311			1.0 g	1.0 mL	385381	03/28/22 12:15	TMH	FGS SEA
TCLP	Prep	7470A			5 mL	50 mL	385557	03/29/22 12:26	JLS	FGS SEA
TCLP	Analysis	7470A		1			385710	03/29/22 17:22	ABP	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW3
Lab Sample ID: 180-135473-2
Date Collected: 03/15/22 12:57
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	385877	03/31/22 22:14	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385515	03/29/22 17:25	TL1	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW4
Lab Sample ID: 180-135473-3
Date Collected: 03/15/22 14:13
Matrix: Water
Date Received: 03/18/22 12:40

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	10 mL	10 mL	385515	03/29/22 17:49	TL1	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW5
Lab Sample ID: 180-135473-4
Date Collected: 03/15/22 18:11
Matrix: Water
Date Received: 03/18/22 12:40

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	10 mL	10 mL	385515	03/29/22 18:14	TL1	FGS SEA
	Instrument ID: TAC113									

Lab Chronicle

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

Job ID: 180-135473-1

Client Sample ID: MW6
Date Collected: 03/17/22 13:45
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-5
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	10 mL	10 mL	385858	03/31/22 11:37	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW7
Date Collected: 03/17/22 10:36
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-6
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	10 mL	10 mL	385858	03/31/22 12:02	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW8
Date Collected: 03/16/22 15:31
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-7
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	385641	03/29/22 23:10	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	385935	04/01/22 01:24	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW9
Date Collected: 03/16/22 14:22
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-8
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	385641	03/29/22 23:34	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	385935	04/01/22 01:48	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW10
Date Collected: 03/16/22 11:01
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-9
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	385641	03/29/22 23:58	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	385935	04/01/22 02:11	B1M	FGS SEA
	Instrument ID: TAC036									

Lab Chronicle

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

Job ID: 180-135473-1

Client Sample ID: MW11
Date Collected: 03/16/22 17:51
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-10
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	385641	03/30/22 00:22	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	385935	04/01/22 02:35	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW13
Date Collected: 03/15/22 16:55
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-11
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	385935	04/01/22 02:59	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW14
Date Collected: 03/16/22 12:44
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-12
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	385641	03/30/22 00:47	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D		1	5 mL	5 mL	385935	04/01/22 03:23	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW15
Date Collected: 03/15/22 16:20
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-13
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	385935	04/01/22 03:47	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW16
Date Collected: 03/17/22 11:04
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-14
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	10 mL	10 mL	385858	03/31/22 12:27	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW17
Date Collected: 03/15/22 13:38
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-15
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	385935	04/01/22 04:10	B1M	FGS SEA
	Instrument ID: TAC036									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-135473-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW18
Lab Sample ID: 180-135473-16
Date Collected: 03/16/22 16:31
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	385935	04/01/22 04:34	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385667	03/30/22 11:51	JSM	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW19
Lab Sample ID: 180-135473-17
Date Collected: 03/16/22 13:41
Matrix: Water
Date Received: 03/18/22 12:40

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	10 mL	10 mL	385667	03/30/22 12:15	JSM	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW20
Lab Sample ID: 180-135473-18
Date Collected: 03/16/22 10:31
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	385935	04/01/22 06:09	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385667	03/30/22 12:40	JSM	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW22
Lab Sample ID: 180-135473-19
Date Collected: 03/17/22 12:45
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	386601	04/07/22 03:52	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385858	03/31/22 12:51	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW23
Lab Sample ID: 180-135473-20
Date Collected: 03/16/22 09:15
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	385935	04/01/22 05:46	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385667	03/30/22 13:05	JSM	FGS SEA
	Instrument ID: TAC113									

Lab Chronicle

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

Job ID: 180-135473-1

Client Sample ID: MW24
Date Collected: 03/16/22 18:21
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-21
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	DL	20	5 mL	5 mL	385935	04/01/22 07:21	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385667	03/30/22 13:30	JSM	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW25
Date Collected: 03/16/22 15:05
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-22
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	RA	1	5 mL	5 mL	385935	04/01/22 06:33	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385667	03/30/22 13:55	JSM	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW26
Date Collected: 03/16/22 12:04
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-23
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	10 mL	10 mL	385667	03/30/22 14:19	JSM	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW27
Date Collected: 03/15/22 15:39
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-24
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	10 mL	10 mL	385667	03/30/22 16:47	JSM	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW28
Date Collected: 03/16/22 17:05
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-25
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	8260D	RA	1	5 mL	5 mL	385935	04/01/22 07:44	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385667	03/30/22 14:43	JSM	FGS SEA
	Instrument ID: TAC113									

Lab Chronicle

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

Job ID: 180-135473-1

Client Sample ID: MW29
Date Collected: 03/15/22 14:49
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-26
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	385935	04/01/22 08:08	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW30
Date Collected: 03/17/22 14:17
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-27
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	8260D	RA	1	5 mL	5 mL	386710	04/07/22 21:47	JSM	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385858	03/31/22 13:16	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW31
Date Collected: 03/15/22 18:41
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-28
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	385935	04/01/22 08:32	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: MW100
Date Collected: 03/17/22 16:36
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-29
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	8260D	RA	1	5 mL	5 mL	386601	04/07/22 04:16	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385858	03/31/22 13:40	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW101
Date Collected: 03/17/22 16:09
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-30
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	RA	1	5 mL	5 mL	386601	04/07/22 04:39	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385858	03/31/22 14:05	B1M	FGS SEA
	Instrument ID: TAC113									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-135473-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW102
Lab Sample ID: 180-135473-31
Date Collected: 03/17/22 17:06
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	386601	04/07/22 05:03	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385858	03/31/22 14:29	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: MW103
Lab Sample ID: 180-135473-32
Date Collected: 03/17/22 17:45
Matrix: Water
Date Received: 03/18/22 12:40

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	10 mL	10 mL	385858	03/31/22 14:54	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: DUP1
Lab Sample ID: 180-135473-33
Date Collected: 03/15/22 12:57
Matrix: Water
Date Received: 03/18/22 12:40

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	385935	04/01/22 08:55	B1M	FGS SEA
	Instrument ID: TAC036									

Client Sample ID: DUP2
Lab Sample ID: 180-135473-34
Date Collected: 03/17/22 17:08
Matrix: Water
Date Received: 03/18/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	386601	04/07/22 08:30	B1M	FGS SEA
	Instrument ID: TAC036									
Total/NA	Analysis	8260D		1	10 mL	10 mL	385858	03/31/22 15:19	B1M	FGS SEA
	Instrument ID: TAC113									

Client Sample ID: TRIP BLANK
Lab Sample ID: 180-135473-35
Date Collected: 03/15/22 00:00
Matrix: Water
Date Received: 03/18/22 12:40

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	10 mL	10 mL	385515	03/29/22 15:22	TL1	FGS SEA
	Instrument ID: TAC113									

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

Lab Chronicle

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

Job ID: 180-135473-1

Analyst References:

Lab: FGS SEA

- Batch Type: Leach
  - JLS = Joshua Sloan
  - TMH = Tammy Hua
- Batch Type: Prep
  - JLS = Joshua Sloan
  - KLW = Katja Whelan
- Batch Type: Analysis
  - ABP = Abigail Pineda
  - B1M = Brady Mautz
  - JLS = Joshua Sloan
  - JSM = Justin McKell
  - T1L = Troy Linna
  - TL1 = Thanyawan Limwiroj

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

Job ID: 180-135473-1

Client Sample ID: PURGE WATER

Date Collected: 03/18/22 10:00
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		100	28	ug/L			03/31/22 04:28	100
1,2-Dichloroethane	ND		100	42	ug/L			03/31/22 04:28	100
2-Butanone	ND		1500	470	ug/L			03/31/22 04:28	100
Benzene	ND		100	24	ug/L			03/31/22 04:28	100
Carbon tetrachloride	**39**	**J**	100	30	ug/L			03/31/22 04:28	100
Chlorobenzene	ND		100	44	ug/L			03/31/22 04:28	100
Chloroform	ND		100	26	ug/L			03/31/22 04:28	100
Tetrachloroethene	ND		100	41	ug/L			03/31/22 04:28	100
Trichloroethene	ND		100	26	ug/L			03/31/22 04:28	100
Vinyl chloride	ND		100	22	ug/L			03/31/22 04:28	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*03/31/22 04:28*	*100*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*03/31/22 04:28*	*100*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*03/31/22 04:28*	*100*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/31/22 04:28*	*100*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0	0.20	ug/L		03/30/22 10:28	04/03/22 03:42	1
2-Methylphenol	ND		3.0	0.25	ug/L		03/30/22 10:28	04/03/22 03:42	1
3 & 4 Methylphenol	ND		3.0	0.50	ug/L		03/30/22 10:28	04/03/22 03:42	1
Hexachloroethane	ND		5.0	0.25	ug/L		03/30/22 10:28	04/03/22 03:42	1
Nitrobenzene	ND		5.0	0.20	ug/L		03/30/22 10:28	04/03/22 03:42	1
Hexachlorobutadiene	ND		5.0	0.30	ug/L		03/30/22 10:28	04/03/22 03:42	1
2,4,6-Trichlorophenol	ND		3.0	0.50	ug/L		03/30/22 10:28	04/03/22 03:42	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		03/30/22 10:28	04/03/22 03:42	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		03/30/22 10:28	04/03/22 03:42	1
Hexachlorobenzene	ND		3.0	0.20	ug/L		03/30/22 10:28	04/03/22 03:42	1
Pentachlorophenol	ND		50	2.6	ug/L		03/30/22 10:28	04/03/22 03:42	1
Pyridine	ND	F1	50	5.3	ug/L		03/30/22 10:28	04/03/22 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*85*		*20 - 147*	*03/30/22 10:28*	*04/03/22 03:42*	*1*
Phenol-d5 (Surr)	*78*		*21 - 135*	*03/30/22 10:28*	*04/03/22 03:42*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*28 - 131*	*03/30/22 10:28*	*04/03/22 03:42*	*1*
Nitrobenzene-d5 (Surr)	*83*		*60 - 120*	*03/30/22 10:28*	*04/03/22 03:42*	*1*
2-Fluorobiphenyl	*79*		*63 - 120*	*03/30/22 10:28*	*04/03/22 03:42*	*1*
Terphenyl-d14 (Surr)	*100*		*66 - 120*	*03/30/22 10:28*	*04/03/22 03:42*	*1*

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		03/29/22 13:39	03/30/22 12:18	1
Barium	**0.018**	**J**	0.020	0.0010	mg/L		03/29/22 13:39	03/30/22 12:18	1
Cadmium	ND		0.020	0.00090	mg/L		03/29/22 13:39	03/30/22 12:18	1
Chromium	ND		0.025	0.0027	mg/L		03/29/22 13:39	03/30/22 12:18	1
Copper	**0.018**	**J**	0.060	0.0055	mg/L		03/29/22 13:39	03/30/22 12:18	1
Lead	**0.0035**	**J**	0.030	0.0027	mg/L		03/29/22 13:39	03/30/22 12:18	1
Molybdenum	ND		0.040	0.0012	mg/L		03/29/22 13:39	03/30/22 12:18	1
Nickel	ND		0.020	0.0010	mg/L		03/29/22 13:39	03/30/22 12:18	1

Client Sample ID: PURGE WATER
Lab Sample ID: 180-135473-1
Date Collected: 03/18/22 10:00
Matrix: Water
Date Received: 03/18/22 12:40

Method: 6010D - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	0.0087	mg/L		03/29/22 13:39	03/30/22 12:18	1
Silver	ND		0.050	0.0085	mg/L		03/29/22 13:39	03/30/22 12:18	1
Zinc	ND		0.040	0.0093	mg/L		03/29/22 13:39	03/30/22 12:18	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		03/29/22 12:26	03/29/22 17:22	1

Client Sample ID: MW3
Lab Sample ID: 180-135473-2
Date Collected: 03/15/22 12:57
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/29/22 17:25	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 17:25	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 17:25	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 17:25	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 17:25	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 17:25	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			03/29/22 17:25	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/29/22 17:25	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/29/22 17:25	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 17:25	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 17:25	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 17:25	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 17:25	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 17:25	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 17:25	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 17:25	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 17:25	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 17:25	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 17:25	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 17:25	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 17:25	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 17:25	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 17:25	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 17:25	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/29/22 17:25	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 17:25	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/29/22 17:25	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 17:25	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 17:25	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 17:25	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 17:25	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 17:25	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 17:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			03/29/22 17:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 17:25	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 17:25	1

Client Sample ID: MW3

Date Collected: 03/15/22 12:57
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 17:25	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 17:25	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 17:25	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 17:25	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 17:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 17:25	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 17:25	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 17:25	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 17:25	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 17:25	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 17:25	1
1,2,4-Trimethylbenzene	ND	*+	3.0	0.61	ug/L			03/29/22 17:25	1
sec-Butylbenzene	ND	*+	1.0	0.49	ug/L			03/29/22 17:25	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/29/22 17:25	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 17:25	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 17:25	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 17:25	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 17:25	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 17:25	1
1,2,4-Trichlorobenzene	**0.52**	**J**	1.0	0.33	ug/L			03/29/22 17:25	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			03/29/22 17:25	1
Naphthalene	**0.96**	**J *+**	3.0	0.93	ug/L			03/29/22 17:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/29/22 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*03/29/22 17:25*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/29/22 17:25*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/29/22 17:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND	H	2.0	0.43	ug/L			03/31/22 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/31/22 22:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*03/31/22 22:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/31/22 22:14*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/31/22 22:14*	*1*

Client Sample ID: MW4

Date Collected: 03/15/22 14:13
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/29/22 17:49	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 17:49	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 17:49	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 17:49	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 17:49	1

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

Job ID: 180-135473-1

Client Sample ID: MW4
Date Collected: 03/15/22 14:13
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 17:49	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			03/29/22 17:49	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/29/22 17:49	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/29/22 17:49	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 17:49	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 17:49	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 17:49	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 17:49	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 17:49	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 17:49	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 17:49	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 17:49	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 17:49	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 17:49	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 17:49	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 17:49	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 17:49	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 17:49	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 17:49	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/29/22 17:49	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 17:49	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/29/22 17:49	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 17:49	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 17:49	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 17:49	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 17:49	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 17:49	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 17:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			03/29/22 17:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 17:49	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 17:49	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 17:49	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 17:49	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 17:49	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 17:49	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 17:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 17:49	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 17:49	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 17:49	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 17:49	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 17:49	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 17:49	1
1,2,4-Trimethylbenzene	ND	*+	3.0	0.61	ug/L			03/29/22 17:49	1
sec-Butylbenzene	ND	*+	1.0	0.49	ug/L			03/29/22 17:49	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/29/22 17:49	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 17:49	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 17:49	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 17:49	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 17:49	1

Client Sample ID: MW4
Lab Sample ID: 180-135473-3
Date Collected: 03/15/22 14:13
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 17:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			03/29/22 17:49	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			03/29/22 17:49	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/29/22 17:49	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/29/22 17:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/29/22 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*03/29/22 17:49*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/29/22 17:49*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/29/22 17:49*	*1*

Client Sample ID: MW5
Lab Sample ID: 180-135473-4
Date Collected: 03/15/22 18:11
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/29/22 18:14	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 18:14	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 18:14	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 18:14	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 18:14	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 18:14	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			03/29/22 18:14	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/29/22 18:14	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/29/22 18:14	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 18:14	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 18:14	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 18:14	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 18:14	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 18:14	1
Chloroform	**1.1**		1.0	0.26	ug/L			03/29/22 18:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 18:14	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 18:14	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 18:14	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 18:14	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 18:14	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 18:14	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 18:14	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 18:14	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 18:14	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/29/22 18:14	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 18:14	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/29/22 18:14	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 18:14	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 18:14	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 18:14	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 18:14	1

Client Sample ID: MW5
Lab Sample ID: 180-135473-4
Date Collected: 03/15/22 18:11
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 18:14	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 18:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			03/29/22 18:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 18:14	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 18:14	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 18:14	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 18:14	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 18:14	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 18:14	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 18:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 18:14	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 18:14	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 18:14	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 18:14	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 18:14	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 18:14	1
1,2,4-Trimethylbenzene	ND	*+	3.0	0.61	ug/L			03/29/22 18:14	1
sec-Butylbenzene	ND	*+	1.0	0.49	ug/L			03/29/22 18:14	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/29/22 18:14	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 18:14	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 18:14	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 18:14	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 18:14	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 18:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			03/29/22 18:14	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			03/29/22 18:14	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/29/22 18:14	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/29/22 18:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/29/22 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*03/29/22 18:14*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/29/22 18:14*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*03/29/22 18:14*	*1*

Client Sample ID: MW6
Lab Sample ID: 180-135473-5
Date Collected: 03/17/22 13:45
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 11:37	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 11:37	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 11:37	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 11:37	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 11:37	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 11:37	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 11:37	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 11:37	1

Client Sample ID: MW6
Date Collected: 03/17/22 13:45
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 11:37	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 11:37	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 11:37	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 11:37	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 11:37	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 11:37	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 11:37	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 11:37	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 11:37	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 11:37	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 11:37	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 11:37	1
Trichloroethene	ND		1.0	0.26	ug/L			03/31/22 11:37	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 11:37	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 11:37	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 11:37	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 11:37	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 11:37	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 11:37	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 11:37	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 11:37	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 11:37	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 11:37	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 11:37	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 11:37	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 11:37	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 11:37	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 11:37	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 11:37	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 11:37	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 11:37	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 11:37	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 11:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 11:37	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 11:37	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 11:37	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 11:37	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 11:37	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 11:37	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 11:37	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 11:37	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 11:37	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 11:37	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 11:37	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 11:37	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 11:37	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 11:37	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 11:37	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 11:37	1

Client Sample ID: MW6
Lab Sample ID: 180-135473-5
Date Collected: 03/17/22 13:45
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 11:37	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 11:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/31/22 11:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*144*	*S1+*	*80 - 120*		*03/31/22 11:37*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*03/31/22 11:37*	*1*
Dibromofluoromethane (Surr)	*128*	*S1+*	*80 - 120*		*03/31/22 11:37*	*1*

Client Sample ID: MW7
Lab Sample ID: 180-135473-6
Date Collected: 03/17/22 10:36
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 12:02	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 12:02	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 12:02	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 12:02	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 12:02	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 12:02	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 12:02	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 12:02	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 12:02	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 12:02	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 12:02	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 12:02	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 12:02	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 12:02	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 12:02	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 12:02	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 12:02	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 12:02	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 12:02	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 12:02	1
Trichloroethene	ND		1.0	0.26	ug/L			03/31/22 12:02	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 12:02	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 12:02	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 12:02	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 12:02	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 12:02	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 12:02	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 12:02	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 12:02	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 12:02	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 12:02	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 12:02	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 12:02	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 12:02	1

Client Sample ID: MW7

Lab Sample ID: 180-135473-6
Date Collected: 03/17/22 10:36
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 12:02	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 12:02	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 12:02	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 12:02	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 12:02	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 12:02	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 12:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 12:02	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 12:02	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 12:02	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 12:02	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 12:02	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 12:02	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 12:02	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 12:02	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 12:02	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 12:02	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 12:02	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 12:02	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 12:02	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 12:02	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 12:02	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 12:02	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 12:02	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 12:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/31/22 12:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*147*	*S1+*	*80 - 120*		*03/31/22 12:02*	*1*
4-Bromofluorobenzene (Surr)	*121*	*S1+*	*80 - 120*		*03/31/22 12:02*	*1*
Dibromofluoromethane (Surr)	*130*	*S1+*	*80 - 120*		*03/31/22 12:02*	*1*

Client Sample ID: MW8

Lab Sample ID: 180-135473-7
Date Collected: 03/16/22 15:31
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			03/29/22 23:10	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 23:10	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 23:10	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 23:10	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 23:10	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 23:10	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/29/22 23:10	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 23:10	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 23:10	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 23:10	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 23:10	1

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

Job ID: 180-135473-1

Client Sample ID: MW8
Date Collected: 03/16/22 15:31
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 23:10	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 23:10	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 23:10	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 23:10	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 23:10	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 23:10	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 23:10	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 23:10	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 23:10	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 23:10	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 23:10	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/29/22 23:10	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 23:10	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/29/22 23:10	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 23:10	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 23:10	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 23:10	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 23:10	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 23:10	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 23:10	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 23:10	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 23:10	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 23:10	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 23:10	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 23:10	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 23:10	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 23:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 23:10	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 23:10	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 23:10	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 23:10	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 23:10	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 23:10	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/29/22 23:10	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/29/22 23:10	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/29/22 23:10	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 23:10	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 23:10	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 23:10	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 23:10	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 23:10	1
Naphthalene	ND		3.0	0.93	ug/L			03/29/22 23:10	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			03/29/22 23:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/29/22 23:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*03/29/22 23:10*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*03/29/22 23:10*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*03/29/22 23:10*	*1*

Client Sample ID: MW8

Lab Sample ID: 180-135473-7
Date Collected: 03/16/22 15:31
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.34**	**J H**	1.0	0.28	ug/L			04/01/22 01:24	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 01:24	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 01:24	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 01:24	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/01/22 01:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*04/01/22 01:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/01/22 01:24*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/01/22 01:24*	*1*

Client Sample ID: MW9

Lab Sample ID: 180-135473-8
Date Collected: 03/16/22 14:22
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			03/29/22 23:34	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 23:34	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 23:34	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 23:34	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 23:34	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 23:34	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/29/22 23:34	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 23:34	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 23:34	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 23:34	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 23:34	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 23:34	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 23:34	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 23:34	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 23:34	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 23:34	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 23:34	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 23:34	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 23:34	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 23:34	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 23:34	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 23:34	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/29/22 23:34	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 23:34	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/29/22 23:34	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 23:34	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 23:34	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 23:34	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 23:34	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 23:34	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 23:34	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 23:34	1

Client Sample ID: MW9

Date Collected: 03/16/22 14:22
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 23:34	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 23:34	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 23:34	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 23:34	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 23:34	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 23:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 23:34	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 23:34	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 23:34	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 23:34	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 23:34	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 23:34	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/29/22 23:34	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/29/22 23:34	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/29/22 23:34	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 23:34	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 23:34	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 23:34	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 23:34	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 23:34	1
Naphthalene	ND		3.0	0.93	ug/L			03/29/22 23:34	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			03/29/22 23:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/29/22 23:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*03/29/22 23:34*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*03/29/22 23:34*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/29/22 23:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 01:48	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 01:48	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 01:48	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 01:48	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 01:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*04/01/22 01:48*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/01/22 01:48*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*04/01/22 01:48*	*1*

Client Sample ID: MW10

Date Collected: 03/16/22 11:01
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			03/29/22 23:58	1

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

Job ID: 180-135473-1

Client Sample ID: MW10
Date Collected: 03/16/22 11:01
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 23:58	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 23:58	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 23:58	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 23:58	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 23:58	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/29/22 23:58	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 23:58	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 23:58	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 23:58	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 23:58	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 23:58	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 23:58	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 23:58	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 23:58	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 23:58	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 23:58	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 23:58	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 23:58	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 23:58	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 23:58	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 23:58	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/29/22 23:58	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 23:58	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/29/22 23:58	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 23:58	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 23:58	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 23:58	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 23:58	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 23:58	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 23:58	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 23:58	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 23:58	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 23:58	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 23:58	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 23:58	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 23:58	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 23:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 23:58	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 23:58	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 23:58	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 23:58	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 23:58	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 23:58	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/29/22 23:58	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/29/22 23:58	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/29/22 23:58	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 23:58	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 23:58	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 23:58	1

Client Sample ID: MW10
Lab Sample ID: 180-135473-9
Date Collected: 03/16/22 11:01
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 23:58	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 23:58	1
Naphthalene	ND		3.0	0.93	ug/L			03/29/22 23:58	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			03/29/22 23:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/29/22 23:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*03/29/22 23:58*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*03/29/22 23:58*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/29/22 23:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 02:11	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 02:11	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 02:11	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 02:11	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/01/22 02:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/01/22 02:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/01/22 02:11*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*04/01/22 02:11*	*1*

Client Sample ID: MW11
Lab Sample ID: 180-135473-10
Date Collected: 03/16/22 17:51
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			03/30/22 00:22	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 00:22	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 00:22	1
Bromomethane	ND		1.0	0.21	ug/L			03/30/22 00:22	1
Chloroethane	ND		1.0	0.35	ug/L			03/30/22 00:22	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/30/22 00:22	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/30/22 00:22	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/30/22 00:22	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/30/22 00:22	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/30/22 00:22	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/30/22 00:22	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/30/22 00:22	1
Chloroform	ND		1.0	0.26	ug/L			03/30/22 00:22	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/30/22 00:22	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/30/22 00:22	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/30/22 00:22	1
Benzene	ND		1.0	0.24	ug/L			03/30/22 00:22	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/30/22 00:22	1
Trichloroethene	ND		1.0	0.26	ug/L			03/30/22 00:22	1

Client Sample ID: MW11
Date Collected: 03/16/22 17:51
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/30/22 00:22	1
Dibromomethane	ND		1.0	0.34	ug/L			03/30/22 00:22	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/30/22 00:22	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/22 00:22	1
Toluene	ND		1.0	0.39	ug/L			03/30/22 00:22	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/30/22 00:22	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/30/22 00:22	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/30/22 00:22	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/30/22 00:22	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/30/22 00:22	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/30/22 00:22	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/30/22 00:22	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/30/22 00:22	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/30/22 00:22	1
o-Xylene	ND		1.0	0.39	ug/L			03/30/22 00:22	1
Styrene	ND		1.0	0.53	ug/L			03/30/22 00:22	1
Bromoform	ND		1.0	0.51	ug/L			03/30/22 00:22	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/30/22 00:22	1
Bromobenzene	ND		1.0	0.43	ug/L			03/30/22 00:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/30/22 00:22	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/30/22 00:22	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/30/22 00:22	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/30/22 00:22	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 00:22	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/30/22 00:22	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/30/22 00:22	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/30/22 00:22	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/30/22 00:22	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/30/22 00:22	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/22 00:22	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/30/22 00:22	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/22 00:22	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/30/22 00:22	1
Naphthalene	ND		3.0	0.93	ug/L			03/30/22 00:22	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			03/30/22 00:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/30/22 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/30/22 00:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*03/30/22 00:22*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*03/30/22 00:22*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*03/30/22 00:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 02:35	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 02:35	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 02:35	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 02:35	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 02:35	1

Client Sample ID: MW11
Lab Sample ID: 180-135473-10
Date Collected: 03/16/22 17:51
Matrix: Water
Date Received: 03/18/22 12:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/01/22 02:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*04/01/22 02:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/01/22 02:35*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/01/22 02:35*	*1*

Client Sample ID: MW13
Lab Sample ID: 180-135473-11
Date Collected: 03/15/22 16:55
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0	0.53	ug/L			04/01/22 02:59	1
Chloromethane	ND	H	1.0	0.28	ug/L			04/01/22 02:59	1
Vinyl chloride	**0.40**	**J H**	1.0	0.22	ug/L			04/01/22 02:59	1
Bromomethane	**0.60**	**J H**	1.0	0.21	ug/L			04/01/22 02:59	1
Chloroethane	**0.58**	**J H**	1.0	0.35	ug/L			04/01/22 02:59	1
Trichlorofluoromethane	**0.64**	**J H**	1.0	0.36	ug/L			04/01/22 02:59	1
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 02:59	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 02:59	1
Methyl tert-butyl ether	**0.49**	**J H**	1.0	0.44	ug/L			04/01/22 02:59	1
trans-1,2-Dichloroethene	**0.42**	**J H**	1.0	0.39	ug/L			04/01/22 02:59	1
1,1-Dichloroethane	**0.37**	**J H**	1.0	0.22	ug/L			04/01/22 02:59	1
2,2-Dichloropropane	**0.47**	**J H**	1.0	0.32	ug/L			04/01/22 02:59	1
cis-1,2-Dichloroethene	**0.43**	**J H**	1.0	0.35	ug/L			04/01/22 02:59	1
Bromochloromethane	**0.42**	**J H**	1.0	0.29	ug/L			04/01/22 02:59	1
Chloroform	**0.39**	**J H**	1.0	0.26	ug/L			04/01/22 02:59	1
1,1,1-Trichloroethane	**0.43**	**J H**	1.0	0.39	ug/L			04/01/22 02:59	1
Carbon tetrachloride	**0.48**	**J H**	1.0	0.30	ug/L			04/01/22 02:59	1
1,1-Dichloropropene	**0.43**	**J H**	1.0	0.29	ug/L			04/01/22 02:59	1
Benzene	ND	H	1.0	0.24	ug/L			04/01/22 02:59	1
1,2-Dichloroethane	ND	H	1.0	0.42	ug/L			04/01/22 02:59	1
Trichloroethene	**0.44**	**J H**	1.0	0.26	ug/L			04/01/22 02:59	1
1,2-Dichloropropane	**0.41**	**J H**	1.0	0.18	ug/L			04/01/22 02:59	1
Dibromomethane	**0.40**	**J *+ H**	1.0	0.34	ug/L			04/01/22 02:59	1
Dichlorobromomethane	**0.40**	**J H**	1.0	0.29	ug/L			04/01/22 02:59	1
cis-1,3-Dichloropropene	**0.49**	**J H**	1.0	0.42	ug/L			04/01/22 02:59	1
Toluene	**0.47**	**J H B**	1.0	0.39	ug/L			04/01/22 02:59	1
trans-1,3-Dichloropropene	**0.49**	**J H**	1.0	0.41	ug/L			04/01/22 02:59	1
1,1,2-Trichloroethane	ND	*+ H	1.0	0.24	ug/L			04/01/22 02:59	1
Tetrachloroethene	**0.44**	**J H**	1.0	0.41	ug/L			04/01/22 02:59	1
1,3-Dichloropropane	ND	*+ H	1.0	0.35	ug/L			04/01/22 02:59	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			04/01/22 02:59	1
Ethylene Dibromide	ND	H	1.0	0.40	ug/L			04/01/22 02:59	1
Chlorobenzene	ND	H	1.0	0.44	ug/L			04/01/22 02:59	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 02:59	1
Ethylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 02:59	1
m-Xylene & p-Xylene	ND	H	2.0	0.53	ug/L			04/01/22 02:59	1
o-Xylene	ND	H	1.0	0.39	ug/L			04/01/22 02:59	1
Styrene	ND	H	1.0	0.53	ug/L			04/01/22 02:59	1
Bromoform	ND	H	1.0	0.51	ug/L			04/01/22 02:59	1

Client Sample ID: MW13
Lab Sample ID: 180-135473-11
Date Collected: 03/15/22 16:55
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 02:59	1
Bromobenzene	ND	H	1.0	0.43	ug/L			04/01/22 02:59	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			04/01/22 02:59	1
1,2,3-Trichloropropane	ND	H	1.0	0.41	ug/L			04/01/22 02:59	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 02:59	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			04/01/22 02:59	1
4-Chlorotoluene	ND	H	1.0	0.38	ug/L			04/01/22 02:59	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			04/01/22 02:59	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			04/01/22 02:59	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			04/01/22 02:59	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			04/01/22 02:59	1
1,3-Dichlorobenzene	ND	H	1.0	0.48	ug/L			04/01/22 02:59	1
1,4-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 02:59	1
n-Butylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 02:59	1
1,2-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 02:59	1
1,2-Dibromo-3-Chloropropane	ND	H	3.0	0.57	ug/L			04/01/22 02:59	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 02:59	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 02:59	1
Naphthalene	ND	H	3.0	0.93	ug/L			04/01/22 02:59	1
1,2,3-Trichlorobenzene	ND	H	2.0	0.43	ug/L			04/01/22 02:59	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			04/01/22 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/01/22 02:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/01/22 02:59*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/01/22 02:59*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/01/22 02:59*	*1*

Client Sample ID: MW14
Lab Sample ID: 180-135473-12
Date Collected: 03/16/22 12:44
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			03/30/22 00:47	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 00:47	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 00:47	1
Bromomethane	ND		1.0	0.21	ug/L			03/30/22 00:47	1
Chloroethane	ND		1.0	0.35	ug/L			03/30/22 00:47	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/30/22 00:47	1
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 03:23	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 03:23	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/30/22 00:47	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/30/22 00:47	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/30/22 00:47	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/30/22 00:47	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/30/22 00:47	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/30/22 00:47	1
Chloroform	**4.7**		1.0	0.26	ug/L			03/30/22 00:47	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/30/22 00:47	1

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

Job ID: 180-135473-1

Client Sample ID: MW14
Date Collected: 03/16/22 12:44
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/30/22 00:47	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/30/22 00:47	1
Benzene	ND		1.0	0.24	ug/L			03/30/22 00:47	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/30/22 00:47	1
Trichloroethene	ND		1.0	0.26	ug/L			03/30/22 00:47	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/30/22 00:47	1
Dibromomethane	ND		1.0	0.34	ug/L			03/30/22 00:47	1
Dichlorobromomethane	**0.36**	**J**	1.0	0.29	ug/L			03/30/22 00:47	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/22 00:47	1
Toluene	ND		1.0	0.39	ug/L			03/30/22 00:47	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/30/22 00:47	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/30/22 00:47	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/30/22 00:47	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/30/22 00:47	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/30/22 00:47	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/30/22 00:47	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/30/22 00:47	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 03:23	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/30/22 00:47	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/30/22 00:47	1
o-Xylene	ND		1.0	0.39	ug/L			03/30/22 00:47	1
Styrene	ND		1.0	0.53	ug/L			03/30/22 00:47	1
Bromoform	ND		1.0	0.51	ug/L			03/30/22 00:47	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/30/22 00:47	1
Bromobenzene	ND		1.0	0.43	ug/L			03/30/22 00:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/30/22 00:47	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/30/22 00:47	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/30/22 00:47	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/30/22 00:47	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 00:47	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/30/22 00:47	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/30/22 00:47	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/30/22 00:47	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/30/22 00:47	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/30/22 00:47	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/22 00:47	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/30/22 00:47	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/22 00:47	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/30/22 00:47	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 03:23	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 03:23	1
Naphthalene	ND		3.0	0.93	ug/L			03/30/22 00:47	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			03/30/22 00:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/30/22 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*03/30/22 00:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 03:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*03/30/22 00:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/01/22 03:23*	*1*

Client Sample ID: MW14
Lab Sample ID: 180-135473-12
Date Collected: 03/16/22 12:44
Matrix: Water
Date Received: 03/18/22 12:40

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*03/30/22 00:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/01/22 03:23*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 120*		*03/30/22 00:47*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/01/22 03:23*	*1*

Client Sample ID: MW15
Lab Sample ID: 180-135473-13
Date Collected: 03/15/22 16:20
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0	0.53	ug/L			04/01/22 03:47	1
Chloromethane	ND	H	1.0	0.28	ug/L			04/01/22 03:47	1
Vinyl chloride	**0.40**	**J H**	1.0	0.22	ug/L			04/01/22 03:47	1
Bromomethane	**0.59**	**J H**	1.0	0.21	ug/L			04/01/22 03:47	1
Chloroethane	**0.58**	**J H**	1.0	0.35	ug/L			04/01/22 03:47	1
Trichlorofluoromethane	**0.64**	**J H**	1.0	0.36	ug/L			04/01/22 03:47	1
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 03:47	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 03:47	1
Methyl tert-butyl ether	**0.49**	**J H**	1.0	0.44	ug/L			04/01/22 03:47	1
trans-1,2-Dichloroethene	**0.42**	**J H**	1.0	0.39	ug/L			04/01/22 03:47	1
1,1-Dichloroethane	**0.37**	**J H**	1.0	0.22	ug/L			04/01/22 03:47	1
2,2-Dichloropropane	**0.46**	**J H**	1.0	0.32	ug/L			04/01/22 03:47	1
cis-1,2-Dichloroethene	**0.46**	**J H**	1.0	0.35	ug/L			04/01/22 03:47	1
Bromochloromethane	**0.42**	**J H**	1.0	0.29	ug/L			04/01/22 03:47	1
Chloroform	**1.2**	**H**	1.0	0.26	ug/L			04/01/22 03:47	1
1,1,1-Trichloroethane	**0.43**	**J H**	1.0	0.39	ug/L			04/01/22 03:47	1
Carbon tetrachloride	**3.5**	**H**	1.0	0.30	ug/L			04/01/22 03:47	1
1,1-Dichloropropene	**0.43**	**J H**	1.0	0.29	ug/L			04/01/22 03:47	1
Benzene	**0.29**	**J H**	1.0	0.24	ug/L			04/01/22 03:47	1
1,2-Dichloroethane	ND	H	1.0	0.42	ug/L			04/01/22 03:47	1
Trichloroethene	**14**	**H**	1.0	0.26	ug/L			04/01/22 03:47	1
1,2-Dichloropropane	**0.41**	**J H**	1.0	0.18	ug/L			04/01/22 03:47	1
Dibromomethane	**0.39**	**J *+ H**	1.0	0.34	ug/L			04/01/22 03:47	1
Dichlorobromomethane	**0.40**	**J H**	1.0	0.29	ug/L			04/01/22 03:47	1
cis-1,3-Dichloropropene	**0.51**	**J H**	1.0	0.42	ug/L			04/01/22 03:47	1
Toluene	**0.48**	**J H B**	1.0	0.39	ug/L			04/01/22 03:47	1
trans-1,3-Dichloropropene	**0.48**	**J H**	1.0	0.41	ug/L			04/01/22 03:47	1
1,1,2-Trichloroethane	ND	*+ H	1.0	0.24	ug/L			04/01/22 03:47	1
Tetrachloroethene	**0.43**	**J H**	1.0	0.41	ug/L			04/01/22 03:47	1
1,3-Dichloropropane	ND	*+ H	1.0	0.35	ug/L			04/01/22 03:47	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			04/01/22 03:47	1
Ethylene Dibromide	ND	H	1.0	0.40	ug/L			04/01/22 03:47	1
Chlorobenzene	ND	H	1.0	0.44	ug/L			04/01/22 03:47	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 03:47	1
Ethylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 03:47	1
m-Xylene & p-Xylene	ND	H	2.0	0.53	ug/L			04/01/22 03:47	1
o-Xylene	ND	H	1.0	0.39	ug/L			04/01/22 03:47	1
Styrene	**0.59**	**J H B**	1.0	0.53	ug/L			04/01/22 03:47	1

Client Sample ID: MW15
Lab Sample ID: 180-135473-13
Date Collected: 03/15/22 16:20
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND	H	1.0	0.51	ug/L			04/01/22 03:47	1
Isopropylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 03:47	1
Bromobenzene	ND	H	1.0	0.43	ug/L			04/01/22 03:47	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			04/01/22 03:47	1
1,2,3-Trichloropropane	ND	H	1.0	0.41	ug/L			04/01/22 03:47	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 03:47	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			04/01/22 03:47	1
4-Chlorotoluene	ND	H	1.0	0.38	ug/L			04/01/22 03:47	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			04/01/22 03:47	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			04/01/22 03:47	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			04/01/22 03:47	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			04/01/22 03:47	1
1,3-Dichlorobenzene	ND	H	1.0	0.48	ug/L			04/01/22 03:47	1
1,4-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 03:47	1
n-Butylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 03:47	1
1,2-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 03:47	1
1,2-Dibromo-3-Chloropropane	ND	H	3.0	0.57	ug/L			04/01/22 03:47	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 03:47	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 03:47	1
Naphthalene	ND	H	3.0	0.93	ug/L			04/01/22 03:47	1
1,2,3-Trichlorobenzene	ND	H	2.0	0.43	ug/L			04/01/22 03:47	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			04/01/22 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 03:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/01/22 03:47*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/01/22 03:47*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*04/01/22 03:47*	*1*

Client Sample ID: MW16
Lab Sample ID: 180-135473-14
Date Collected: 03/17/22 11:04
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 12:27	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 12:27	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 12:27	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 12:27	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 12:27	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 12:27	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 12:27	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 12:27	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 12:27	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 12:27	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 12:27	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 12:27	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 12:27	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 12:27	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 12:27	1

Client Sample ID: MW16
Date Collected: 03/17/22 11:04
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 12:27	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 12:27	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 12:27	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 12:27	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 12:27	1
Trichloroethene	ND		1.0	0.26	ug/L			03/31/22 12:27	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 12:27	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 12:27	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 12:27	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 12:27	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 12:27	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 12:27	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 12:27	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 12:27	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 12:27	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 12:27	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 12:27	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 12:27	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 12:27	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 12:27	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 12:27	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 12:27	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 12:27	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 12:27	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 12:27	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 12:27	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 12:27	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 12:27	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 12:27	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 12:27	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 12:27	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 12:27	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 12:27	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 12:27	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 12:27	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 12:27	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 12:27	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 12:27	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 12:27	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 12:27	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 12:27	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 12:27	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 12:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/31/22 12:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*148*	*S1+*	*80 - 120*		*03/31/22 12:27*	*1*
4-Bromofluorobenzene (Surr)	*119*		*80 - 120*		*03/31/22 12:27*	*1*

Client Sample ID: MW16
Lab Sample ID: 180-135473-14
Date Collected: 03/17/22 11:04
Matrix: Water
Date Received: 03/18/22 12:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	128	S1+	80 - 120		03/31/22 12:27	1

Client Sample ID: MW17
Lab Sample ID: 180-135473-15
Date Collected: 03/15/22 13:38
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0	0.53	ug/L			04/01/22 04:10	1
Chloromethane	ND	H	1.0	0.28	ug/L			04/01/22 04:10	1
Vinyl chloride	**0.41**	**J H**	1.0	0.22	ug/L			04/01/22 04:10	1
Bromomethane	**0.60**	**J H**	1.0	0.21	ug/L			04/01/22 04:10	1
Chloroethane	**0.60**	**J H**	1.0	0.35	ug/L			04/01/22 04:10	1
Trichlorofluoromethane	**0.64**	**J H**	1.0	0.36	ug/L			04/01/22 04:10	1
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 04:10	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 04:10	1
Methyl tert-butyl ether	**0.49**	**J H**	1.0	0.44	ug/L			04/01/22 04:10	1
trans-1,2-Dichloroethene	**0.43**	**J H**	1.0	0.39	ug/L			04/01/22 04:10	1
1,1-Dichloroethane	**0.37**	**J H**	1.0	0.22	ug/L			04/01/22 04:10	1
2,2-Dichloropropane	**0.46**	**J H**	1.0	0.32	ug/L			04/01/22 04:10	1
cis-1,2-Dichloroethene	**0.82**	**J H**	1.0	0.35	ug/L			04/01/22 04:10	1
Bromochloromethane	**0.42**	**J H**	1.0	0.29	ug/L			04/01/22 04:10	1
Chloroform	**0.58**	**J H**	1.0	0.26	ug/L			04/01/22 04:10	1
1,1,1-Trichloroethane	**0.43**	**J H**	1.0	0.39	ug/L			04/01/22 04:10	1
Carbon tetrachloride	**0.53**	**J H**	1.0	0.30	ug/L			04/01/22 04:10	1
1,1-Dichloropropene	**0.43**	**J H**	1.0	0.29	ug/L			04/01/22 04:10	1
Benzene	**0.28**	**J H**	1.0	0.24	ug/L			04/01/22 04:10	1
1,2-Dichloroethane	ND	H	1.0	0.42	ug/L			04/01/22 04:10	1
Trichloroethene	**8.3**	**H**	1.0	0.26	ug/L			04/01/22 04:10	1
1,2-Dichloropropane	**0.43**	**J H**	1.0	0.18	ug/L			04/01/22 04:10	1
Dibromomethane	**0.39**	**J *+ H**	1.0	0.34	ug/L			04/01/22 04:10	1
Dichlorobromomethane	**0.40**	**J H**	1.0	0.29	ug/L			04/01/22 04:10	1
cis-1,3-Dichloropropene	**0.49**	**J H**	1.0	0.42	ug/L			04/01/22 04:10	1
Toluene	**0.43**	**J H B**	1.0	0.39	ug/L			04/01/22 04:10	1
trans-1,3-Dichloropropene	**0.48**	**J H**	1.0	0.41	ug/L			04/01/22 04:10	1
1,1,2-Trichloroethane	ND	*+ H	1.0	0.24	ug/L			04/01/22 04:10	1
Tetrachloroethene	**0.44**	**J H**	1.0	0.41	ug/L			04/01/22 04:10	1
1,3-Dichloropropane	ND	*+ H	1.0	0.35	ug/L			04/01/22 04:10	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			04/01/22 04:10	1
Ethylene Dibromide	ND	H	1.0	0.40	ug/L			04/01/22 04:10	1
Chlorobenzene	ND	H	1.0	0.44	ug/L			04/01/22 04:10	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 04:10	1
Ethylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 04:10	1
m-Xylene & p-Xylene	ND	H	2.0	0.53	ug/L			04/01/22 04:10	1
o-Xylene	ND	H	1.0	0.39	ug/L			04/01/22 04:10	1
Styrene	ND	H	1.0	0.53	ug/L			04/01/22 04:10	1
Bromoform	ND	H	1.0	0.51	ug/L			04/01/22 04:10	1
Isopropylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 04:10	1
Bromobenzene	ND	H	1.0	0.43	ug/L			04/01/22 04:10	1

Client Sample ID: MW17
Lab Sample ID: 180-135473-15
Date Collected: 03/15/22 13:38
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			04/01/22 04:10	1
1,2,3-Trichloropropane	ND	H	1.0	0.41	ug/L			04/01/22 04:10	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 04:10	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			04/01/22 04:10	1
4-Chlorotoluene	ND	H	1.0	0.38	ug/L			04/01/22 04:10	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			04/01/22 04:10	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			04/01/22 04:10	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			04/01/22 04:10	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			04/01/22 04:10	1
1,3-Dichlorobenzene	ND	H	1.0	0.48	ug/L			04/01/22 04:10	1
1,4-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 04:10	1
n-Butylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 04:10	1
1,2-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 04:10	1
1,2-Dibromo-3-Chloropropane	ND	H	3.0	0.57	ug/L			04/01/22 04:10	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 04:10	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 04:10	1
Naphthalene	ND	H	3.0	0.93	ug/L			04/01/22 04:10	1
1,2,3-Trichlorobenzene	ND	H	2.0	0.43	ug/L			04/01/22 04:10	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			04/01/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/01/22 04:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*04/01/22 04:10*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/01/22 04:10*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*04/01/22 04:10*	*1*

Client Sample ID: MW18
Lab Sample ID: 180-135473-16
Date Collected: 03/16/22 16:31
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 11:51	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 11:51	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 11:51	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 11:51	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 11:51	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 11:51	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 11:51	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 11:51	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 11:51	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 11:51	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 11:51	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 11:51	1
cis-1,2-Dichloroethene	ND	*+ *1	1.0	0.35	ug/L			03/30/22 11:51	1
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 11:51	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 11:51	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 11:51	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 11:51	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 11:51	1

Client Sample ID: MW18

Date Collected: 03/16/22 16:31
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 11:51	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 11:51	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 11:51	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 11:51	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 11:51	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 11:51	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 11:51	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 11:51	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 11:51	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 11:51	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 11:51	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 11:51	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 11:51	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 11:51	1
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 11:51	1
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 11:51	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 11:51	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 11:51	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 11:51	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 11:51	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 11:51	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 11:51	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 11:51	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 11:51	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 11:51	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 11:51	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 11:51	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 11:51	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 11:51	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 11:51	1
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 11:51	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 11:51	1
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 11:51	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 11:51	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 11:51	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 11:51	1
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 11:51	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/30/22 11:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*131*	*S1+*	*80 - 120*		*03/30/22 11:51*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*03/30/22 11:51*	*1*
Dibromofluoromethane (Surr)	*123*	*S1+*	*80 - 120*		*03/30/22 11:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**3.7**	**H**	1.0	0.26	ug/L			04/01/22 04:34	1
Carbon tetrachloride	**23**	**H**	1.0	0.30	ug/L			04/01/22 04:34	1
Trichloroethene	**36**	**H**	1.0	0.26	ug/L			04/01/22 04:34	1

Client Sample ID: MW18

Date Collected: 03/16/22 16:31
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	3.0	H	1.0	0.41	ug/L			04/01/22 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 04:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/01/22 04:34*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/01/22 04:34*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/01/22 04:34*	*1*

Client Sample ID: MW19

Date Collected: 03/16/22 13:41
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 12:15	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 12:15	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 12:15	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 12:15	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 12:15	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 12:15	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 12:15	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 12:15	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 12:15	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 12:15	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 12:15	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 12:15	1
cis-1,2-Dichloroethene	ND	*+ *1	1.0	0.35	ug/L			03/30/22 12:15	1
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 12:15	1
Chloroform	ND	*+ *1	1.0	0.26	ug/L			03/30/22 12:15	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 12:15	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/30/22 12:15	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 12:15	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 12:15	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 12:15	1
Trichloroethene	ND	*+ *1	1.0	0.26	ug/L			03/30/22 12:15	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 12:15	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 12:15	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 12:15	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 12:15	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 12:15	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 12:15	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 12:15	1
Tetrachloroethene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 12:15	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 12:15	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 12:15	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 12:15	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 12:15	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 12:15	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 12:15	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 12:15	1

Client Sample ID: MW19
Lab Sample ID: 180-135473-17
Date Collected: 03/16/22 13:41
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 12:15	1
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 12:15	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 12:15	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 12:15	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 12:15	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 12:15	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 12:15	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 12:15	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 12:15	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 12:15	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 12:15	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 12:15	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 12:15	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 12:15	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 12:15	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 12:15	1
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 12:15	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 12:15	1
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 12:15	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 12:15	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 12:15	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 12:15	1
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 12:15	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/30/22 12:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*136*	*S1+*	*80 - 120*		*03/30/22 12:15*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*03/30/22 12:15*	*1*
Dibromofluoromethane (Surr)	*126*	*S1+*	*80 - 120*		*03/30/22 12:15*	*1*

Client Sample ID: MW20
Lab Sample ID: 180-135473-18
Date Collected: 03/16/22 10:31
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 12:40	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 12:40	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 12:40	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 12:40	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 12:40	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 12:40	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 12:40	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 12:40	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 12:40	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 12:40	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 12:40	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 12:40	1
cis-1,2-Dichloroethene	**0.57**	**J *+ *1**	1.0	0.35	ug/L			03/30/22 12:40	1

Client Sample ID: MW20
Date Collected: 03/16/22 10:31
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 12:40	1
Chloroform	**190**	**E *+ *1**	1.0	0.26	ug/L			03/30/22 12:40	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 12:40	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/30/22 12:40	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 12:40	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 12:40	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 12:40	1
Trichloroethene	**260**	**E *+ *1**	1.0	0.26	ug/L			03/30/22 12:40	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 12:40	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 12:40	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 12:40	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 12:40	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 12:40	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 12:40	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 12:40	1
Tetrachloroethene	**13**	***+ *1**	1.0	0.41	ug/L			03/30/22 12:40	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 12:40	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 12:40	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 12:40	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 12:40	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 12:40	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 12:40	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 12:40	1
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 12:40	1
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 12:40	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 12:40	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 12:40	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 12:40	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 12:40	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 12:40	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 12:40	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 12:40	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 12:40	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 12:40	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 12:40	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 12:40	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 12:40	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 12:40	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 12:40	1
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 12:40	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 12:40	1
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 12:40	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 12:40	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 12:40	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 12:40	1
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 12:40	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/30/22 12:40*	*1*

Client Sample ID: MW20

Date Collected: 03/16/22 10:31
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-18

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*	*S1+*	*80 - 120*		*03/30/22 12:40*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*03/30/22 12:40*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 120*		*03/30/22 12:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	10	5.3	ug/L			04/01/22 06:09	10
Chloromethane	ND	H	10	2.8	ug/L			04/01/22 06:09	10
Vinyl chloride	**4.0**	**J H**	10	2.2	ug/L			04/01/22 06:09	10
Bromomethane	**5.9**	**J H**	10	2.1	ug/L			04/01/22 06:09	10
Chloroethane	**5.9**	**J H**	10	3.5	ug/L			04/01/22 06:09	10
Trichlorofluoromethane	**6.4**	**J H**	10	3.6	ug/L			04/01/22 06:09	10
1,1-Dichloroethene	**3.3**	**J H**	10	2.8	ug/L			04/01/22 06:09	10
Methylene Chloride	ND	H	30	14	ug/L			04/01/22 06:09	10
Methyl tert-butyl ether	**4.9**	**J H**	10	4.4	ug/L			04/01/22 06:09	10
trans-1,2-Dichloroethene	**4.3**	**J H**	10	3.9	ug/L			04/01/22 06:09	10
1,1-Dichloroethane	**3.7**	**J H**	10	2.2	ug/L			04/01/22 06:09	10
2,2-Dichloropropane	**4.7**	**J H**	10	3.2	ug/L			04/01/22 06:09	10
cis-1,2-Dichloroethene	**4.2**	**J H**	10	3.5	ug/L			04/01/22 06:09	10
Bromochloromethane	**4.3**	**J H**	10	2.9	ug/L			04/01/22 06:09	10
Chloroform	**24**	**H**	10	2.6	ug/L			04/01/22 06:09	10
1,1,1-Trichloroethane	**4.3**	**J H**	10	3.9	ug/L			04/01/22 06:09	10
Carbon tetrachloride	**66**	**H**	10	3.0	ug/L			04/01/22 06:09	10
1,1-Dichloropropene	**4.3**	**J H**	10	2.9	ug/L			04/01/22 06:09	10
Benzene	**2.5**	**J H**	10	2.4	ug/L			04/01/22 06:09	10
1,2-Dichloroethane	ND	H	10	4.2	ug/L			04/01/22 06:09	10
Trichloroethene	**4.5**	**J H**	10	2.6	ug/L			04/01/22 06:09	10
1,2-Dichloropropane	**4.1**	**J H**	10	1.8	ug/L			04/01/22 06:09	10
Dibromomethane	**4.0**	**J *+ H**	10	3.4	ug/L			04/01/22 06:09	10
Dichlorobromomethane	**4.0**	**J H**	10	2.9	ug/L			04/01/22 06:09	10
cis-1,3-Dichloropropene	**4.9**	**J H**	10	4.2	ug/L			04/01/22 06:09	10
Toluene	ND	H	10	3.9	ug/L			04/01/22 06:09	10
trans-1,3-Dichloropropene	**4.8**	**J H**	10	4.1	ug/L			04/01/22 06:09	10
1,1,2-Trichloroethane	ND	*+ H	10	2.4	ug/L			04/01/22 06:09	10
Tetrachloroethene	**4.2**	**J H**	10	4.1	ug/L			04/01/22 06:09	10
1,3-Dichloropropane	ND	*+ H	10	3.5	ug/L			04/01/22 06:09	10
Chlorodibromomethane	ND	H	10	4.3	ug/L			04/01/22 06:09	10
Ethylene Dibromide	ND	H	10	4.0	ug/L			04/01/22 06:09	10
Chlorobenzene	ND	H	10	4.4	ug/L			04/01/22 06:09	10
1,1,1,2-Tetrachloroethane	ND	H	10	1.8	ug/L			04/01/22 06:09	10
Ethylbenzene	ND	H	10	5.0	ug/L			04/01/22 06:09	10
m-Xylene & p-Xylene	ND	H	20	5.3	ug/L			04/01/22 06:09	10
o-Xylene	ND	H	10	3.9	ug/L			04/01/22 06:09	10
Styrene	**6.1**	**J H B**	10	5.3	ug/L			04/01/22 06:09	10
Bromoform	ND	H	10	5.1	ug/L			04/01/22 06:09	10
Isopropylbenzene	ND	H	10	4.4	ug/L			04/01/22 06:09	10
Bromobenzene	ND	H	10	4.3	ug/L			04/01/22 06:09	10
1,1,2,2-Tetrachloroethane	ND	H	10	5.2	ug/L			04/01/22 06:09	10
1,2,3-Trichloropropane	ND	H	10	4.1	ug/L			04/01/22 06:09	10

Client Sample ID: MW20

Date Collected: 03/16/22 10:31
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	H	10	5.0	ug/L			04/01/22 06:09	10
2-Chlorotoluene	ND	H	10	5.1	ug/L			04/01/22 06:09	10
4-Chlorotoluene	ND	H	10	3.8	ug/L			04/01/22 06:09	10
tert-Butylbenzene	ND	H	20	5.8	ug/L			04/01/22 06:09	10
1,2,4-Trimethylbenzene	ND	H	30	6.1	ug/L			04/01/22 06:09	10
sec-Butylbenzene	ND	H	10	4.9	ug/L			04/01/22 06:09	10
4-Isopropyltoluene	ND	H	10	2.8	ug/L			04/01/22 06:09	10
1,3-Dichlorobenzene	ND	H	10	4.8	ug/L			04/01/22 06:09	10
1,4-Dichlorobenzene	ND	H	10	4.6	ug/L			04/01/22 06:09	10
n-Butylbenzene	ND	H	10	4.4	ug/L			04/01/22 06:09	10
1,2-Dichlorobenzene	ND	H	10	4.6	ug/L			04/01/22 06:09	10
1,2-Dibromo-3-Chloropropane	ND	H	30	5.7	ug/L			04/01/22 06:09	10
1,2,4-Trichlorobenzene	ND	H	10	3.3	ug/L			04/01/22 06:09	10
Hexachlorobutadiene	ND	H	30	7.9	ug/L			04/01/22 06:09	10
Naphthalene	ND	H	30	9.3	ug/L			04/01/22 06:09	10
1,2,3-Trichlorobenzene	ND	H	20	4.3	ug/L			04/01/22 06:09	10
1,3,5-Trimethylbenzene	ND	H	10	5.5	ug/L			04/01/22 06:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 06:09*	*10*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*04/01/22 06:09*	*10*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/01/22 06:09*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/01/22 06:09*	*10*

Client Sample ID: MW22

Date Collected: 03/17/22 12:45
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 12:51	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 12:51	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 12:51	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 12:51	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 12:51	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 12:51	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 12:51	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 12:51	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 12:51	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 12:51	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 12:51	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 12:51	1
cis-1,2-Dichloroethene	**1.7**		1.0	0.35	ug/L			03/31/22 12:51	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 12:51	1
Chloroform	**3.3**		1.0	0.26	ug/L			03/31/22 12:51	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 12:51	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 12:51	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 12:51	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 12:51	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 12:51	1

Client Sample ID: MW22
Date Collected: 03/17/22 12:45
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 12:51	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 12:51	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 12:51	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 12:51	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 12:51	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 12:51	1
Tetrachloroethene	**0.85**	**J**	1.0	0.41	ug/L			03/31/22 12:51	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 12:51	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 12:51	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 12:51	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 12:51	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 12:51	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 12:51	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 12:51	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 12:51	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 12:51	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 12:51	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 12:51	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 12:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 12:51	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 12:51	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 12:51	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 12:51	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 12:51	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 12:51	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 12:51	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 12:51	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 12:51	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 12:51	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 12:51	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 12:51	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 12:51	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 12:51	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 12:51	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 12:51	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 12:51	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 12:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/31/22 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*146*	*S1+*	*80 - 120*		*03/31/22 12:51*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*03/31/22 12:51*	*1*
Dibromofluoromethane (Surr)	*128*	*S1+*	*80 - 120*		*03/31/22 12:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**13**	**H**	1.0	0.30	ug/L			04/07/22 03:52	1
Trichloroethene	**5.5**	**H**	1.0	0.26	ug/L			04/07/22 03:52	1

Client Sample ID: MW23
Date Collected: 03/16/22 09:15
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 13:05	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 13:05	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 13:05	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 13:05	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 13:05	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 13:05	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 13:05	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 13:05	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 13:05	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 13:05	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 13:05	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 13:05	1
cis-1,2-Dichloroethene	ND	*+ *1	1.0	0.35	ug/L			03/30/22 13:05	1
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:05	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 13:05	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:05	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 13:05	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 13:05	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 13:05	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 13:05	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:05	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 13:05	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 13:05	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 13:05	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 13:05	1
Tetrachloroethene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 13:05	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 13:05	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 13:05	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 13:05	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 13:05	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 13:05	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 13:05	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 13:05	1
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 13:05	1
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 13:05	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 13:05	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 13:05	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 13:05	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 13:05	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 13:05	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 13:05	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 13:05	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 13:05	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 13:05	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 13:05	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 13:05	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 13:05	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 13:05	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 13:05	1

Client Sample ID: MW23

Date Collected: 03/16/22 09:15
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 13:05	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 13:05	1
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 13:05	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 13:05	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 13:05	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 13:05	1
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 13:05	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/30/22 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*136*	*S1+*	*80 - 120*		*03/30/22 13:05*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*03/30/22 13:05*	*1*
Dibromofluoromethane (Surr)	*127*	*S1+*	*80 - 120*		*03/30/22 13:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**4.6**	**H**	1.0	0.26	ug/L			04/01/22 05:46	1
Carbon tetrachloride	**2.0**	**H**	1.0	0.30	ug/L			04/01/22 05:46	1
Trichloroethene	**1.5**	**H**	1.0	0.26	ug/L			04/01/22 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 05:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*04/01/22 05:46*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/01/22 05:46*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/01/22 05:46*	*1*

Client Sample ID: MW24

Date Collected: 03/16/22 18:21
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 13:30	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 13:30	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 13:30	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 13:30	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 13:30	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 13:30	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 13:30	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 13:30	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 13:30	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 13:30	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 13:30	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 13:30	1
cis-1,2-Dichloroethene	ND	*+ *1	1.0	0.35	ug/L			03/30/22 13:30	1
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:30	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 13:30	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:30	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 13:30	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 13:30	1

Client Sample ID: MW24

Date Collected: 03/16/22 18:21
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 13:30	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 13:30	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:30	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 13:30	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 13:30	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 13:30	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 13:30	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 13:30	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 13:30	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 13:30	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 13:30	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 13:30	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 13:30	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 13:30	1
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 13:30	1
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 13:30	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 13:30	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 13:30	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 13:30	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 13:30	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 13:30	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 13:30	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 13:30	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 13:30	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 13:30	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 13:30	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 13:30	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 13:30	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 13:30	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 13:30	1
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 13:30	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 13:30	1
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 13:30	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 13:30	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 13:30	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 13:30	1
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 13:30	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*03/30/22 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*136*	*S1+*	*80 - 120*		*03/30/22 13:30*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*03/30/22 13:30*	*1*
Dibromofluoromethane (Surr)	*123*	*S1+*	*80 - 120*		*03/30/22 13:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**27**	**H**	20	5.2	ug/L			04/01/22 07:21	20
Carbon tetrachloride	**140**	**H**	20	6.0	ug/L			04/01/22 07:21	20
Trichloroethene	**69**	**H**	20	5.2	ug/L			04/01/22 07:21	20

Client Sample ID: MW24
Lab Sample ID: 180-135473-21
Date Collected: 03/16/22 18:21
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	8.5	J H	20	8.2	ug/L			04/01/22 07:21	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 07:21*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*04/01/22 07:21*	*20*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/01/22 07:21*	*20*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*04/01/22 07:21*	*20*

Client Sample ID: MW25
Lab Sample ID: 180-135473-22
Date Collected: 03/16/22 15:05
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 13:55	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 13:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 13:55	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 13:55	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 13:55	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 13:55	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 13:55	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 13:55	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 13:55	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 13:55	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 13:55	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 13:55	1
cis-1,2-Dichloroethene	ND	*+ *1	1.0	0.35	ug/L			03/30/22 13:55	1
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:55	1
Chloroform	ND	*+ *1	1.0	0.26	ug/L			03/30/22 13:55	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 13:55	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:55	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 13:55	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 13:55	1
Trichloroethene	ND	*+ *1	1.0	0.26	ug/L			03/30/22 13:55	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 13:55	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 13:55	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 13:55	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 13:55	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 13:55	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 13:55	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 13:55	1
Tetrachloroethene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 13:55	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 13:55	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 13:55	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 13:55	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 13:55	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 13:55	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 13:55	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 13:55	1
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 13:55	1

Client Sample ID: MW25
Date Collected: 03/16/22 15:05
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 13:55	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 13:55	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 13:55	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 13:55	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 13:55	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 13:55	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 13:55	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 13:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 13:55	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 13:55	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 13:55	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 13:55	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 13:55	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 13:55	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 13:55	1
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 13:55	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 13:55	1
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 13:55	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 13:55	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 13:55	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 13:55	1
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 13:55	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/30/22 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*140*	*S1+*	*80 - 120*		*03/30/22 13:55*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*03/30/22 13:55*	*1*
Dibromofluoromethane (Surr)	*125*	*S1+*	*80 - 120*		*03/30/22 13:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**0.50**	**J H**	1.0	0.30	ug/L			04/01/22 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/01/22 06:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/01/22 06:33*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/01/22 06:33*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*04/01/22 06:33*	*1*

Client Sample ID: MW26
Date Collected: 03/16/22 12:04
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 14:19	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 14:19	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 14:19	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 14:19	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 14:19	1

Client Sample ID: MW26
Date Collected: 03/16/22 12:04
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 14:19	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 14:19	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 14:19	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 14:19	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 14:19	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 14:19	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 14:19	1
cis-1,2-Dichloroethene	ND	*+ *1	1.0	0.35	ug/L			03/30/22 14:19	1
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 14:19	1
Chloroform	ND	*+ *1	1.0	0.26	ug/L			03/30/22 14:19	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 14:19	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/30/22 14:19	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 14:19	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 14:19	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 14:19	1
Trichloroethene	ND	*+ *1	1.0	0.26	ug/L			03/30/22 14:19	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 14:19	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 14:19	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 14:19	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 14:19	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 14:19	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 14:19	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 14:19	1
Tetrachloroethene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 14:19	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 14:19	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 14:19	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 14:19	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 14:19	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 14:19	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 14:19	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 14:19	1
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 14:19	1
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 14:19	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 14:19	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 14:19	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 14:19	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 14:19	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 14:19	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 14:19	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 14:19	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 14:19	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 14:19	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 14:19	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 14:19	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 14:19	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 14:19	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 14:19	1
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 14:19	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 14:19	1

Client Sample ID: MW26
Lab Sample ID: 180-135473-23
Date Collected: 03/16/22 12:04
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 14:19	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 14:19	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 14:19	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 14:19	1
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 14:19	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*03/30/22 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*140*	*S1+*	*80 - 120*		*03/30/22 14:19*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*03/30/22 14:19*	*1*
Dibromofluoromethane (Surr)	*126*	*S1+*	*80 - 120*		*03/30/22 14:19*	*1*

Client Sample ID: MW27
Lab Sample ID: 180-135473-24
Date Collected: 03/15/22 15:39
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0	0.53	ug/L			03/30/22 16:47	1
Chloromethane	ND	H	1.0	0.28	ug/L			03/30/22 16:47	1
Vinyl chloride	ND	H	1.0	0.22	ug/L			03/30/22 16:47	1
Bromomethane	ND	H *+	1.0	0.21	ug/L			03/30/22 16:47	1
Chloroethane	ND	*+ H	1.0	0.35	ug/L			03/30/22 16:47	1
Trichlorofluoromethane	ND	*+ H	1.0	0.36	ug/L			03/30/22 16:47	1
1,1-Dichloroethene	ND	*+ H	1.0	0.28	ug/L			03/30/22 16:47	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			03/30/22 16:47	1
Methyl tert-butyl ether	ND	*+ H	1.0	0.44	ug/L			03/30/22 16:47	1
trans-1,2-Dichloroethene	ND	H *+ *1	1.0	0.39	ug/L			03/30/22 16:47	1
1,1-Dichloroethane	ND	H *1	1.0	0.22	ug/L			03/30/22 16:47	1
2,2-Dichloropropane	ND	*+ H	1.0	0.32	ug/L			03/30/22 16:47	1
cis-1,2-Dichloroethene	ND	H *+ *1	1.0	0.35	ug/L			03/30/22 16:47	1
Bromochloromethane	ND	H *+ *1	1.0	0.29	ug/L			03/30/22 16:47	1
Chloroform	**19**	**H *+ *1**	1.0	0.26	ug/L			03/30/22 16:47	1
1,1,1-Trichloroethane	ND	*+ H	1.0	0.39	ug/L			03/30/22 16:47	1
Carbon tetrachloride	**120**	***+ H E**	1.0	0.30	ug/L			03/30/22 16:47	1
1,1-Dichloropropene	ND	H *+ *1	1.0	0.29	ug/L			03/30/22 16:47	1
Benzene	ND	H *1	1.0	0.24	ug/L			03/30/22 16:47	1
1,2-Dichloroethane	ND	*+ H *1	1.0	0.42	ug/L			03/30/22 16:47	1
Trichloroethene	ND	H *+ *1	1.0	0.26	ug/L			03/30/22 16:47	1
1,2-Dichloropropane	ND	H *1	1.0	0.18	ug/L			03/30/22 16:47	1
Dibromomethane	ND	H *+ *1	1.0	0.34	ug/L			03/30/22 16:47	1
Dichlorobromomethane	ND	H *+ *1	1.0	0.29	ug/L			03/30/22 16:47	1
cis-1,3-Dichloropropene	ND	H *+	1.0	0.42	ug/L			03/30/22 16:47	1
Toluene	ND	H *1	1.0	0.39	ug/L			03/30/22 16:47	1
trans-1,3-Dichloropropene	ND	H *+ *1	1.0	0.41	ug/L			03/30/22 16:47	1
1,1,2-Trichloroethane	ND	H *1	1.0	0.24	ug/L			03/30/22 16:47	1
Tetrachloroethene	ND	H *+ *1	1.0	0.41	ug/L			03/30/22 16:47	1
1,3-Dichloropropane	ND	H *1	1.0	0.35	ug/L			03/30/22 16:47	1
Chlorodibromomethane	ND	H *+ *1	1.0	0.43	ug/L			03/30/22 16:47	1

Client Sample ID: MW27
Lab Sample ID: 180-135473-24

Date Collected: 03/15/22 15:39
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND	H *+ *1	1.0	0.40	ug/L			03/30/22 16:47	1
Chlorobenzene	ND	H *1	1.0	0.44	ug/L			03/30/22 16:47	1
1,1,1,2-Tetrachloroethane	ND	H *+ *1	1.0	0.18	ug/L			03/30/22 16:47	1
Ethylbenzene	ND	H *+ *1	1.0	0.50	ug/L			03/30/22 16:47	1
m-Xylene & p-Xylene	ND	H *+ *1	2.0	0.53	ug/L			03/30/22 16:47	1
o-Xylene	ND	H *+ *1	1.0	0.39	ug/L			03/30/22 16:47	1
Styrene	ND	H *+ *1	1.0	0.53	ug/L			03/30/22 16:47	1
Bromoform	ND	H *+	1.0	0.51	ug/L			03/30/22 16:47	1
Isopropylbenzene	ND	H *+ *1	1.0	0.44	ug/L			03/30/22 16:47	1
Bromobenzene	ND	H *+	1.0	0.43	ug/L			03/30/22 16:47	1
1,1,2,2-Tetrachloroethane	ND	H *1	1.0	0.52	ug/L			03/30/22 16:47	1
1,2,3-Trichloropropane	ND	H *+	1.0	0.41	ug/L			03/30/22 16:47	1
N-Propylbenzene	ND	H *1	1.0	0.50	ug/L			03/30/22 16:47	1
2-Chlorotoluene	ND	H *+ *1	1.0	0.51	ug/L			03/30/22 16:47	1
4-Chlorotoluene	ND	H	1.0	0.38	ug/L			03/30/22 16:47	1
tert-Butylbenzene	ND	H *+ *1	2.0	0.58	ug/L			03/30/22 16:47	1
1,2,4-Trimethylbenzene	ND	H *+ *1	3.0	0.61	ug/L			03/30/22 16:47	1
sec-Butylbenzene	ND	H *+ *1	1.0	0.49	ug/L			03/30/22 16:47	1
4-Isopropyltoluene	ND	H *+ *1	1.0	0.28	ug/L			03/30/22 16:47	1
1,3-Dichlorobenzene	ND	H *+	1.0	0.48	ug/L			03/30/22 16:47	1
1,4-Dichlorobenzene	ND	H *1	1.0	0.46	ug/L			03/30/22 16:47	1
n-Butylbenzene	**2.8**	**H *+ *1**	1.0	0.44	ug/L			03/30/22 16:47	1
1,2-Dichlorobenzene	ND	H *+ *1	1.0	0.46	ug/L			03/30/22 16:47	1
1,2-Dibromo-3-Chloropropane	ND	H *+ *1	3.0	0.57	ug/L			03/30/22 16:47	1
1,2,4-Trichlorobenzene	ND	H *+ *1	1.0	0.33	ug/L			03/30/22 16:47	1
Hexachlorobutadiene	ND	*+ H *1	3.0	0.79	ug/L			03/30/22 16:47	1
Naphthalene	ND	H *+ *1	3.0	0.93	ug/L			03/30/22 16:47	1
1,2,3-Trichlorobenzene	ND	*+ H *1	2.0	0.43	ug/L			03/30/22 16:47	1
1,3,5-Trimethylbenzene	ND	H *+ *1	1.0	0.55	ug/L			03/30/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/30/22 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*145*	*S1+*	*80 - 120*		*03/30/22 16:47*	*1*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*80 - 120*		*03/30/22 16:47*	*1*
Dibromofluoromethane (Surr)	*129*	*S1+*	*80 - 120*		*03/30/22 16:47*	*1*

Client Sample ID: MW28
Lab Sample ID: 180-135473-25

Date Collected: 03/16/22 17:05
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 14:43	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 14:43	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 14:43	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/30/22 14:43	1
Chloroethane	ND	*+	1.0	0.35	ug/L			03/30/22 14:43	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/30/22 14:43	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/30/22 14:43	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 14:43	1

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

Job ID: 180-135473-1

Client Sample ID: MW28
Date Collected: 03/16/22 17:05
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-25
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/30/22 14:43	1
trans-1,2-Dichloroethene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 14:43	1
1,1-Dichloroethane	ND	*1	1.0	0.22	ug/L			03/30/22 14:43	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/30/22 14:43	1
cis-1,2-Dichloroethene	ND	*+ *1	1.0	0.35	ug/L			03/30/22 14:43	1
Bromochloromethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 14:43	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/30/22 14:43	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/30/22 14:43	1
1,1-Dichloropropene	ND	*+ *1	1.0	0.29	ug/L			03/30/22 14:43	1
Benzene	ND	*1	1.0	0.24	ug/L			03/30/22 14:43	1
1,2-Dichloroethane	ND	*+ *1	1.0	0.42	ug/L			03/30/22 14:43	1
Trichloroethene	ND	*+ *1	1.0	0.26	ug/L			03/30/22 14:43	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			03/30/22 14:43	1
Dibromomethane	ND	*+ *1	1.0	0.34	ug/L			03/30/22 14:43	1
Dichlorobromomethane	ND	*+ *1	1.0	0.29	ug/L			03/30/22 14:43	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/30/22 14:43	1
Toluene	ND	*1	1.0	0.39	ug/L			03/30/22 14:43	1
trans-1,3-Dichloropropene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 14:43	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			03/30/22 14:43	1
Tetrachloroethene	ND	*+ *1	1.0	0.41	ug/L			03/30/22 14:43	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			03/30/22 14:43	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			03/30/22 14:43	1
Ethylene Dibromide	ND	*+ *1	1.0	0.40	ug/L			03/30/22 14:43	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			03/30/22 14:43	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			03/30/22 14:43	1
Ethylbenzene	ND	*+ *1	1.0	0.50	ug/L			03/30/22 14:43	1
m-Xylene & p-Xylene	ND	*+ *1	2.0	0.53	ug/L			03/30/22 14:43	1
o-Xylene	ND	*+ *1	1.0	0.39	ug/L			03/30/22 14:43	1
Styrene	ND	*+ *1	1.0	0.53	ug/L			03/30/22 14:43	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/30/22 14:43	1
Isopropylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 14:43	1
Bromobenzene	ND	*+	1.0	0.43	ug/L			03/30/22 14:43	1
1,1,2,2-Tetrachloroethane	ND	*1	1.0	0.52	ug/L			03/30/22 14:43	1
1,2,3-Trichloropropane	ND	*+	1.0	0.41	ug/L			03/30/22 14:43	1
N-Propylbenzene	ND	*1	1.0	0.50	ug/L			03/30/22 14:43	1
2-Chlorotoluene	ND	*+ *1	1.0	0.51	ug/L			03/30/22 14:43	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 14:43	1
tert-Butylbenzene	ND	*+ *1	2.0	0.58	ug/L			03/30/22 14:43	1
1,2,4-Trimethylbenzene	ND	*+ *1	3.0	0.61	ug/L			03/30/22 14:43	1
sec-Butylbenzene	ND	*+ *1	1.0	0.49	ug/L			03/30/22 14:43	1
4-Isopropyltoluene	ND	*+ *1	1.0	0.28	ug/L			03/30/22 14:43	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			03/30/22 14:43	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			03/30/22 14:43	1
n-Butylbenzene	ND	*+ *1	1.0	0.44	ug/L			03/30/22 14:43	1
1,2-Dichlorobenzene	ND	*+ *1	1.0	0.46	ug/L			03/30/22 14:43	1
1,2-Dibromo-3-Chloropropane	ND	*+ *1	3.0	0.57	ug/L			03/30/22 14:43	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			03/30/22 14:43	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			03/30/22 14:43	1
Naphthalene	ND	*+ *1	3.0	0.93	ug/L			03/30/22 14:43	1

Client Sample ID: MW28
Lab Sample ID: 180-135473-25
Date Collected: 03/16/22 17:05
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND	*+ *1	2.0	0.43	ug/L			03/30/22 14:43	1
1,3,5-Trimethylbenzene	ND	*+ *1	1.0	0.55	ug/L			03/30/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/30/22 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*	*S1+*	*80 - 120*		*03/30/22 14:43*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*03/30/22 14:43*	*1*
Dibromofluoromethane (Surr)	*127*	*S1+*	*80 - 120*		*03/30/22 14:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**1.2**	**H**	1.0	0.26	ug/L			04/01/22 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 07:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*04/01/22 07:44*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/01/22 07:44*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/01/22 07:44*	*1*

Client Sample ID: MW29
Lab Sample ID: 180-135473-26
Date Collected: 03/15/22 14:49
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0	0.53	ug/L			04/01/22 08:08	1
Chloromethane	ND	H	1.0	0.28	ug/L			04/01/22 08:08	1
Vinyl chloride	**0.40**	**J H**	1.0	0.22	ug/L			04/01/22 08:08	1
Bromomethane	**0.59**	**J H**	1.0	0.21	ug/L			04/01/22 08:08	1
Chloroethane	**0.58**	**J H**	1.0	0.35	ug/L			04/01/22 08:08	1
Trichlorofluoromethane	**0.64**	**J H**	1.0	0.36	ug/L			04/01/22 08:08	1
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 08:08	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 08:08	1
Methyl tert-butyl ether	**0.49**	**J H**	1.0	0.44	ug/L			04/01/22 08:08	1
trans-1,2-Dichloroethene	**0.42**	**J H**	1.0	0.39	ug/L			04/01/22 08:08	1
1,1-Dichloroethane	**0.37**	**J H**	1.0	0.22	ug/L			04/01/22 08:08	1
2,2-Dichloropropane	**0.47**	**J H**	1.0	0.32	ug/L			04/01/22 08:08	1
cis-1,2-Dichloroethene	**0.43**	**J H**	1.0	0.35	ug/L			04/01/22 08:08	1
Bromochloromethane	**0.42**	**J H**	1.0	0.29	ug/L			04/01/22 08:08	1
Chloroform	**0.39**	**J H**	1.0	0.26	ug/L			04/01/22 08:08	1
1,1,1-Trichloroethane	**0.43**	**J H**	1.0	0.39	ug/L			04/01/22 08:08	1
Carbon tetrachloride	**0.47**	**J H**	1.0	0.30	ug/L			04/01/22 08:08	1
1,1-Dichloropropene	**0.43**	**J H**	1.0	0.29	ug/L			04/01/22 08:08	1
Benzene	**0.27**	**J H**	1.0	0.24	ug/L			04/01/22 08:08	1
1,2-Dichloroethane	ND	H	1.0	0.42	ug/L			04/01/22 08:08	1
Trichloroethene	**0.45**	**J H**	1.0	0.26	ug/L			04/01/22 08:08	1
1,2-Dichloropropane	**0.41**	**J H**	1.0	0.18	ug/L			04/01/22 08:08	1
Dibromomethane	**0.39**	**J *+ H**	1.0	0.34	ug/L			04/01/22 08:08	1
Dichlorobromomethane	**0.39**	**J H**	1.0	0.29	ug/L			04/01/22 08:08	1
cis-1,3-Dichloropropene	**0.49**	**J H**	1.0	0.42	ug/L			04/01/22 08:08	1
Toluene	ND	H	1.0	0.39	ug/L			04/01/22 08:08	1

Client Sample ID: MW29
Lab Sample ID: 180-135473-26
Date Collected: 03/15/22 14:49
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	**0.49**	**J H**	1.0	0.41	ug/L			04/01/22 08:08	1
1,1,2-Trichloroethane	ND	*+ H	1.0	0.24	ug/L			04/01/22 08:08	1
Tetrachloroethene	**0.41**	**J H**	1.0	0.41	ug/L			04/01/22 08:08	1
1,3-Dichloropropane	ND	*+ H	1.0	0.35	ug/L			04/01/22 08:08	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			04/01/22 08:08	1
Ethylene Dibromide	ND	H	1.0	0.40	ug/L			04/01/22 08:08	1
Chlorobenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:08	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 08:08	1
Ethylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 08:08	1
m-Xylene & p-Xylene	ND	H	2.0	0.53	ug/L			04/01/22 08:08	1
o-Xylene	ND	H	1.0	0.39	ug/L			04/01/22 08:08	1
Styrene	**0.60**	**J H B**	1.0	0.53	ug/L			04/01/22 08:08	1
Bromoform	ND	H	1.0	0.51	ug/L			04/01/22 08:08	1
Isopropylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:08	1
Bromobenzene	ND	H	1.0	0.43	ug/L			04/01/22 08:08	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			04/01/22 08:08	1
1,2,3-Trichloropropane	ND	H	1.0	0.41	ug/L			04/01/22 08:08	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 08:08	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			04/01/22 08:08	1
4-Chlorotoluene	ND	H	1.0	0.38	ug/L			04/01/22 08:08	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			04/01/22 08:08	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			04/01/22 08:08	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			04/01/22 08:08	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			04/01/22 08:08	1
1,3-Dichlorobenzene	ND	H	1.0	0.48	ug/L			04/01/22 08:08	1
1,4-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 08:08	1
n-Butylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:08	1
1,2-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 08:08	1
1,2-Dibromo-3-Chloropropane	ND	H	3.0	0.57	ug/L			04/01/22 08:08	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 08:08	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 08:08	1
Naphthalene	ND	H	3.0	0.93	ug/L			04/01/22 08:08	1
1,2,3-Trichlorobenzene	ND	H	2.0	0.43	ug/L			04/01/22 08:08	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			04/01/22 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/01/22 08:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/01/22 08:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/01/22 08:08*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*04/01/22 08:08*	*1*

Client Sample ID: MW30
Lab Sample ID: 180-135473-27
Date Collected: 03/17/22 14:17
Matrix: Water
Date Received: 03/18/22 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 13:16	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 13:16	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 13:16	1

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

Job ID: 180-135473-1

Client Sample ID: MW30
Date Collected: 03/17/22 14:17
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-27
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 13:16	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 13:16	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 13:16	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 13:16	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 13:16	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 13:16	1
trans-1,2-Dichloroethene	**0.47**	**J**	1.0	0.39	ug/L			03/31/22 13:16	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 13:16	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 13:16	1
cis-1,2-Dichloroethene	**5.5**		1.0	0.35	ug/L			03/31/22 13:16	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 13:16	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 13:16	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 13:16	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 13:16	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 13:16	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 13:16	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 13:16	1
Trichloroethene	ND		1.0	0.26	ug/L			03/31/22 13:16	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 13:16	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 13:16	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 13:16	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 13:16	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 13:16	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 13:16	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 13:16	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 13:16	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 13:16	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 13:16	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 13:16	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 13:16	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 13:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 13:16	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 13:16	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 13:16	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 13:16	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 13:16	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 13:16	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 13:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 13:16	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 13:16	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 13:16	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 13:16	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 13:16	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 13:16	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 13:16	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 13:16	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 13:16	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 13:16	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 13:16	1

Client Sample ID: MW30

Date Collected: 03/17/22 14:17
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 13:16	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 13:16	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 13:16	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 13:16	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 13:16	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 13:16	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 13:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/31/22 13:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*149*	*S1+*	*80 - 120*		*03/31/22 13:16*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*03/31/22 13:16*	*1*
Dibromofluoromethane (Surr)	*130*	*S1+*	*80 - 120*		*03/31/22 13:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**5.7**	**H B**	1.0	0.35	ug/L			04/07/22 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/07/22 21:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*04/07/22 21:47*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*04/07/22 21:47*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*04/07/22 21:47*	*1*

Client Sample ID: MW31

Date Collected: 03/15/22 18:41
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0	0.53	ug/L			04/01/22 08:32	1
Chloromethane	ND	H	1.0	0.28	ug/L			04/01/22 08:32	1
Vinyl chloride	**0.40**	**J H**	1.0	0.22	ug/L			04/01/22 08:32	1
Bromomethane	**0.59**	**J H**	1.0	0.21	ug/L			04/01/22 08:32	1
Chloroethane	**0.58**	**J H**	1.0	0.35	ug/L			04/01/22 08:32	1
Trichlorofluoromethane	**0.64**	**J H**	1.0	0.36	ug/L			04/01/22 08:32	1
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 08:32	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 08:32	1
Methyl tert-butyl ether	**0.49**	**J H**	1.0	0.44	ug/L			04/01/22 08:32	1
trans-1,2-Dichloroethene	**0.42**	**J H**	1.0	0.39	ug/L			04/01/22 08:32	1
1,1-Dichloroethane	**0.38**	**J H**	1.0	0.22	ug/L			04/01/22 08:32	1
2,2-Dichloropropane	**0.47**	**J H**	1.0	0.32	ug/L			04/01/22 08:32	1
cis-1,2-Dichloroethene	**0.42**	**J H**	1.0	0.35	ug/L			04/01/22 08:32	1
Bromochloromethane	**0.42**	**J H**	1.0	0.29	ug/L			04/01/22 08:32	1
Chloroform	**0.39**	**J H**	1.0	0.26	ug/L			04/01/22 08:32	1
1,1,1-Trichloroethane	**0.43**	**J H**	1.0	0.39	ug/L			04/01/22 08:32	1
Carbon tetrachloride	**0.48**	**J H**	1.0	0.30	ug/L			04/01/22 08:32	1
1,1-Dichloropropene	**0.43**	**J H**	1.0	0.29	ug/L			04/01/22 08:32	1
Benzene	**0.27**	**J H**	1.0	0.24	ug/L			04/01/22 08:32	1
1,2-Dichloroethane	ND	H	1.0	0.42	ug/L			04/01/22 08:32	1

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

Job ID: 180-135473-1

Client Sample ID: MW31
Date Collected: 03/15/22 18:41
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**0.42**	**J H**	1.0	0.26	ug/L			04/01/22 08:32	1
1,2-Dichloropropane	**0.41**	**J H**	1.0	0.18	ug/L			04/01/22 08:32	1
Dibromomethane	**0.39**	**J *+ H**	1.0	0.34	ug/L			04/01/22 08:32	1
Dichlorobromomethane	**0.39**	**J H**	1.0	0.29	ug/L			04/01/22 08:32	1
cis-1,3-Dichloropropene	**0.49**	**J H**	1.0	0.42	ug/L			04/01/22 08:32	1
Toluene	ND	H	1.0	0.39	ug/L			04/01/22 08:32	1
trans-1,3-Dichloropropene	**0.48**	**J H**	1.0	0.41	ug/L			04/01/22 08:32	1
1,1,2-Trichloroethane	ND	*+ H	1.0	0.24	ug/L			04/01/22 08:32	1
Tetrachloroethene	**0.41**	**J H**	1.0	0.41	ug/L			04/01/22 08:32	1
1,3-Dichloropropane	ND	*+ H	1.0	0.35	ug/L			04/01/22 08:32	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			04/01/22 08:32	1
Ethylene Dibromide	ND	H	1.0	0.40	ug/L			04/01/22 08:32	1
Chlorobenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:32	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 08:32	1
Ethylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 08:32	1
m-Xylene & p-Xylene	ND	H	2.0	0.53	ug/L			04/01/22 08:32	1
o-Xylene	ND	H	1.0	0.39	ug/L			04/01/22 08:32	1
Styrene	**0.60**	**J H B**	1.0	0.53	ug/L			04/01/22 08:32	1
Bromoform	ND	H	1.0	0.51	ug/L			04/01/22 08:32	1
Isopropylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:32	1
Bromobenzene	ND	H	1.0	0.43	ug/L			04/01/22 08:32	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			04/01/22 08:32	1
1,2,3-Trichloropropane	ND	H	1.0	0.41	ug/L			04/01/22 08:32	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 08:32	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			04/01/22 08:32	1
4-Chlorotoluene	ND	H	1.0	0.38	ug/L			04/01/22 08:32	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			04/01/22 08:32	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			04/01/22 08:32	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			04/01/22 08:32	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			04/01/22 08:32	1
1,3-Dichlorobenzene	ND	H	1.0	0.48	ug/L			04/01/22 08:32	1
1,4-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 08:32	1
n-Butylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:32	1
1,2-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 08:32	1
1,2-Dibromo-3-Chloropropane	ND	H	3.0	0.57	ug/L			04/01/22 08:32	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 08:32	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 08:32	1
Naphthalene	ND	H	3.0	0.93	ug/L			04/01/22 08:32	1
1,2,3-Trichlorobenzene	ND	H	2.0	0.43	ug/L			04/01/22 08:32	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			04/01/22 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/01/22 08:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/01/22 08:32*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/01/22 08:32*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/01/22 08:32*	*1*

Client Sample ID: MW100
Date Collected: 03/17/22 16:36
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 13:40	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 13:40	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 13:40	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 13:40	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 13:40	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 13:40	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 13:40	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 13:40	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 13:40	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 13:40	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 13:40	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 13:40	1
cis-1,2-Dichloroethene	**0.46**	**J**	1.0	0.35	ug/L			03/31/22 13:40	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 13:40	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 13:40	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 13:40	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 13:40	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 13:40	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 13:40	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 13:40	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 13:40	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 13:40	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 13:40	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 13:40	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 13:40	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 13:40	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 13:40	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 13:40	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 13:40	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 13:40	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 13:40	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 13:40	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 13:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 13:40	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 13:40	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 13:40	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 13:40	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 13:40	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 13:40	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 13:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 13:40	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 13:40	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 13:40	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 13:40	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 13:40	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 13:40	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 13:40	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 13:40	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 13:40	1

Client Sample ID: MW100

Date Collected: 03/17/22 16:36
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-29

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 13:40	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 13:40	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 13:40	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 13:40	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 13:40	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 13:40	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 13:40	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 13:40	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/31/22 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*148*	*S1+*	*80 - 120*		*03/31/22 13:40*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*03/31/22 13:40*	*1*
Dibromofluoromethane (Surr)	*126*	*S1+*	*80 - 120*		*03/31/22 13:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**6.7**	**H**	1.0	0.26	ug/L			04/07/22 04:16	1

Client Sample ID: MW101

Date Collected: 03/17/22 16:09
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 14:05	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 14:05	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 14:05	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 14:05	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 14:05	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 14:05	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 14:05	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 14:05	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 14:05	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 14:05	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 14:05	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 14:05	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 14:05	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 14:05	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 14:05	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 14:05	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 14:05	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 14:05	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 14:05	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 14:05	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 14:05	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 14:05	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 14:05	1

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

Job ID: 180-135473-1

Client Sample ID: MW101
Date Collected: 03/17/22 16:09
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-30
Matrix: Water

Method: 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	0.42	ug/L			03/31/22 14:05	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 14:05	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 14:05	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 14:05	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 14:05	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 14:05	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 14:05	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 14:05	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 14:05	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 14:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 14:05	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 14:05	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 14:05	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 14:05	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 14:05	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 14:05	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 14:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 14:05	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 14:05	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 14:05	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 14:05	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 14:05	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 14:05	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 14:05	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 14:05	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 14:05	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 14:05	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 14:05	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 14:05	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 14:05	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 14:05	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 14:05	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 14:05	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 14:05	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 14:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/31/22 14:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*147*	*S1+*	*80 - 120*		*03/31/22 14:05*	*1*
4-Bromofluorobenzene (Surr)	*122*	*S1+*	*80 - 120*		*03/31/22 14:05*	*1*
Dibromofluoromethane (Surr)	*129*	*S1+*	*80 - 120*		*03/31/22 14:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**2.2**	**H**	1.0	0.26	ug/L			04/07/22 04:39	1

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

Job ID: 180-135473-1

Client Sample ID: MW102
Date Collected: 03/17/22 17:06
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-31
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 14:29	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 14:29	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 14:29	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 14:29	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 14:29	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 14:29	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 14:29	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 14:29	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 14:29	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 14:29	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 14:29	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 14:29	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 14:29	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 14:29	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 14:29	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 14:29	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 14:29	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 14:29	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 14:29	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 14:29	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 14:29	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 14:29	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 14:29	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 14:29	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 14:29	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 14:29	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 14:29	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 14:29	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 14:29	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 14:29	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 14:29	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 14:29	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 14:29	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 14:29	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 14:29	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 14:29	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 14:29	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 14:29	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 14:29	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 14:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 14:29	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 14:29	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 14:29	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 14:29	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 14:29	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 14:29	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 14:29	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 14:29	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 14:29	1

Client Sample ID: MW102

Date Collected: 03/17/22 17:06
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-31

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 14:29	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 14:29	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 14:29	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 14:29	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 14:29	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 14:29	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 14:29	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 14:29	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 14:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*03/31/22 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*144*	*S1+*	*80 - 120*		*03/31/22 14:29*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*03/31/22 14:29*	*1*
Dibromofluoromethane (Surr)	*128*	*S1+*	*80 - 120*		*03/31/22 14:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**4.1**	**H**	1.0	0.26	ug/L			04/07/22 05:03	1

Client Sample ID: MW103

Date Collected: 03/17/22 17:45
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-32

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 14:54	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 14:54	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 14:54	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 14:54	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 14:54	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 14:54	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 14:54	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 14:54	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 14:54	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 14:54	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 14:54	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 14:54	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 14:54	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 14:54	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 14:54	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 14:54	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 14:54	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 14:54	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 14:54	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 14:54	1
Trichloroethene	ND		1.0	0.26	ug/L			03/31/22 14:54	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 14:54	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 14:54	1

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

Job ID: 180-135473-1

Client Sample ID: MW103
Date Collected: 03/17/22 17:45
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-32
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 14:54	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 14:54	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 14:54	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 14:54	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 14:54	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 14:54	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 14:54	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 14:54	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 14:54	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 14:54	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 14:54	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 14:54	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 14:54	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 14:54	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 14:54	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 14:54	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 14:54	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 14:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 14:54	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 14:54	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 14:54	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 14:54	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 14:54	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 14:54	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 14:54	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 14:54	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 14:54	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 14:54	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 14:54	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 14:54	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 14:54	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 14:54	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 14:54	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 14:54	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 14:54	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 14:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/31/22 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*148*	*S1+*	*80 - 120*		*03/31/22 14:54*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*03/31/22 14:54*	*1*
Dibromofluoromethane (Surr)	*132*	*S1+*	*80 - 120*		*03/31/22 14:54*	*1*

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

Job ID: 180-135473-1

Client Sample ID: DUP1

Date Collected: 03/15/22 12:57
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-33

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0	0.53	ug/L			04/01/22 08:55	1
Chloromethane	ND	H	1.0	0.28	ug/L			04/01/22 08:55	1
Vinyl chloride	**0.40**	**J H**	1.0	0.22	ug/L			04/01/22 08:55	1
Bromomethane	**0.59**	**J H**	1.0	0.21	ug/L			04/01/22 08:55	1
Chloroethane	**0.58**	**J H**	1.0	0.35	ug/L			04/01/22 08:55	1
Trichlorofluoromethane	**0.64**	**J H**	1.0	0.36	ug/L			04/01/22 08:55	1
1,1-Dichloroethene	**0.33**	**J H**	1.0	0.28	ug/L			04/01/22 08:55	1
Methylene Chloride	ND	H	3.0	1.4	ug/L			04/01/22 08:55	1
Methyl tert-butyl ether	**0.49**	**J H**	1.0	0.44	ug/L			04/01/22 08:55	1
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			04/01/22 08:55	1
1,1-Dichloroethane	**0.37**	**J H**	1.0	0.22	ug/L			04/01/22 08:55	1
2,2-Dichloropropane	**0.47**	**J H**	1.0	0.32	ug/L			04/01/22 08:55	1
cis-1,2-Dichloroethene	**0.50**	**J H**	1.0	0.35	ug/L			04/01/22 08:55	1
Bromochloromethane	**0.42**	**J H**	1.0	0.29	ug/L			04/01/22 08:55	1
Chloroform	**0.48**	**J H**	1.0	0.26	ug/L			04/01/22 08:55	1
1,1,1-Trichloroethane	**0.43**	**J H**	1.0	0.39	ug/L			04/01/22 08:55	1
Carbon tetrachloride	**0.48**	**J H**	1.0	0.30	ug/L			04/01/22 08:55	1
1,1-Dichloropropene	**0.43**	**J H**	1.0	0.29	ug/L			04/01/22 08:55	1
Benzene	**0.27**	**J H**	1.0	0.24	ug/L			04/01/22 08:55	1
1,2-Dichloroethane	ND	H	1.0	0.42	ug/L			04/01/22 08:55	1
Trichloroethene	**0.52**	**J H**	1.0	0.26	ug/L			04/01/22 08:55	1
1,2-Dichloropropane	**0.41**	**J H**	1.0	0.18	ug/L			04/01/22 08:55	1
Dibromomethane	**0.40**	**J *+ H**	1.0	0.34	ug/L			04/01/22 08:55	1
Dichlorobromomethane	**0.39**	**J H**	1.0	0.29	ug/L			04/01/22 08:55	1
cis-1,3-Dichloropropene	**0.49**	**J H**	1.0	0.42	ug/L			04/01/22 08:55	1
Toluene	ND	H	1.0	0.39	ug/L			04/01/22 08:55	1
trans-1,3-Dichloropropene	**0.48**	**J H**	1.0	0.41	ug/L			04/01/22 08:55	1
1,1,2-Trichloroethane	ND	*+ H	1.0	0.24	ug/L			04/01/22 08:55	1
Tetrachloroethene	**0.47**	**J H**	1.0	0.41	ug/L			04/01/22 08:55	1
1,3-Dichloropropane	ND	*+ H	1.0	0.35	ug/L			04/01/22 08:55	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			04/01/22 08:55	1
Ethylene Dibromide	ND	H	1.0	0.40	ug/L			04/01/22 08:55	1
Chlorobenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:55	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.18	ug/L			04/01/22 08:55	1
Ethylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 08:55	1
m-Xylene & p-Xylene	ND	H	2.0	0.53	ug/L			04/01/22 08:55	1
o-Xylene	ND	H	1.0	0.39	ug/L			04/01/22 08:55	1
Styrene	**0.60**	**J H B**	1.0	0.53	ug/L			04/01/22 08:55	1
Bromoform	ND	H	1.0	0.51	ug/L			04/01/22 08:55	1
Isopropylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:55	1
Bromobenzene	ND	H	1.0	0.43	ug/L			04/01/22 08:55	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			04/01/22 08:55	1
1,2,3-Trichloropropane	ND	H	1.0	0.41	ug/L			04/01/22 08:55	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			04/01/22 08:55	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			04/01/22 08:55	1
4-Chlorotoluene	ND	H	1.0	0.38	ug/L			04/01/22 08:55	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			04/01/22 08:55	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			04/01/22 08:55	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			04/01/22 08:55	1

Client Sample ID: DUP1

Date Collected: 03/15/22 12:57
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-33
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			04/01/22 08:55	1
1,3-Dichlorobenzene	ND	H	1.0	0.48	ug/L			04/01/22 08:55	1
1,4-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 08:55	1
n-Butylbenzene	ND	H	1.0	0.44	ug/L			04/01/22 08:55	1
1,2-Dichlorobenzene	ND	H	1.0	0.46	ug/L			04/01/22 08:55	1
1,2-Dibromo-3-Chloropropane	ND	H	3.0	0.57	ug/L			04/01/22 08:55	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.33	ug/L			04/01/22 08:55	1
Hexachlorobutadiene	ND	H	3.0	0.79	ug/L			04/01/22 08:55	1
Naphthalene	ND	H	3.0	0.93	ug/L			04/01/22 08:55	1
1,2,3-Trichlorobenzene	ND	H	2.0	0.43	ug/L			04/01/22 08:55	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			04/01/22 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/01/22 08:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/01/22 08:55*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/01/22 08:55*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/01/22 08:55*	*1*

Client Sample ID: DUP2

Date Collected: 03/17/22 17:08
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-34
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 15:19	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 15:19	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 15:19	1
Bromomethane	ND	*+	1.0	0.21	ug/L			03/31/22 15:19	1
Chloroethane	ND	*+ *1	1.0	0.35	ug/L			03/31/22 15:19	1
Trichlorofluoromethane	ND	*+	1.0	0.36	ug/L			03/31/22 15:19	1
1,1-Dichloroethene	ND	*+	1.0	0.28	ug/L			03/31/22 15:19	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 15:19	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/31/22 15:19	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 15:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 15:19	1
2,2-Dichloropropane	ND	*+	1.0	0.32	ug/L			03/31/22 15:19	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 15:19	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 15:19	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 15:19	1
1,1,1-Trichloroethane	ND	*+	1.0	0.39	ug/L			03/31/22 15:19	1
Carbon tetrachloride	ND	*+	1.0	0.30	ug/L			03/31/22 15:19	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 15:19	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 15:19	1
1,2-Dichloroethane	ND	*+	1.0	0.42	ug/L			03/31/22 15:19	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 15:19	1
Dibromomethane	ND	*+	1.0	0.34	ug/L			03/31/22 15:19	1
Dichlorobromomethane	ND	*+	1.0	0.29	ug/L			03/31/22 15:19	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 15:19	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 15:19	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/31/22 15:19	1

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

Job ID: 180-135473-1

Client Sample ID: DUP2

Date Collected: 03/17/22 17:08
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-34

Matrix: Water

Method: 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	0.24	ug/L			03/31/22 15:19	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 15:19	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 15:19	1
Chlorodibromomethane	ND	*+	1.0	0.43	ug/L			03/31/22 15:19	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 15:19	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 15:19	1
1,1,1,2-Tetrachloroethane	ND	*+	1.0	0.18	ug/L			03/31/22 15:19	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 15:19	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 15:19	1
o-Xylene	ND	*+	1.0	0.39	ug/L			03/31/22 15:19	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 15:19	1
Bromoform	ND	*+	1.0	0.51	ug/L			03/31/22 15:19	1
Isopropylbenzene	ND	*+	1.0	0.44	ug/L			03/31/22 15:19	1
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 15:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 15:19	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 15:19	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 15:19	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 15:19	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 15:19	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 15:19	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 15:19	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 15:19	1
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/31/22 15:19	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 15:19	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 15:19	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 15:19	1
1,2-Dichlorobenzene	ND	*+	1.0	0.46	ug/L			03/31/22 15:19	1
1,2-Dibromo-3-Chloropropane	ND	*+	3.0	0.57	ug/L			03/31/22 15:19	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.33	ug/L			03/31/22 15:19	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			03/31/22 15:19	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/31/22 15:19	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/31/22 15:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/31/22 15:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*149*	*S1+*	*80 - 120*		*03/31/22 15:19*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*03/31/22 15:19*	*1*
Dibromofluoromethane (Surr)	*130*	*S1+*	*80 - 120*		*03/31/22 15:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**4.0**	**H**	1.0	0.26	ug/L			04/07/22 08:30	1

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

Job ID: 180-135473-1

Client Sample ID: TRIP BLANK

Date Collected: 03/15/22 00:00
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-35

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/29/22 15:22	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 15:22	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 15:22	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 15:22	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 15:22	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 15:22	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			03/29/22 15:22	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/29/22 15:22	1
Methyl tert-butyl ether	ND	*+	1.0	0.44	ug/L			03/29/22 15:22	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 15:22	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 15:22	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 15:22	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 15:22	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 15:22	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 15:22	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 15:22	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 15:22	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 15:22	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 15:22	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 15:22	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 15:22	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 15:22	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 15:22	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 15:22	1
cis-1,3-Dichloropropene	ND	*+	1.0	0.42	ug/L			03/29/22 15:22	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 15:22	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.41	ug/L			03/29/22 15:22	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 15:22	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 15:22	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 15:22	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 15:22	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 15:22	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 15:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			03/29/22 15:22	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 15:22	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 15:22	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 15:22	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 15:22	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 15:22	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 15:22	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 15:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 15:22	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 15:22	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 15:22	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 15:22	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 15:22	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 15:22	1
1,2,4-Trimethylbenzene	ND	*+	3.0	0.61	ug/L			03/29/22 15:22	1
sec-Butylbenzene	ND	*+	1.0	0.49	ug/L			03/29/22 15:22	1

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

Job ID: 180-135473-1

Client Sample ID: TRIP BLANK
Date Collected: 03/15/22 00:00
Date Received: 03/18/22 12:40

Lab Sample ID: 180-135473-35
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND	*+	1.0	0.28	ug/L			03/29/22 15:22	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 15:22	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 15:22	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 15:22	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 15:22	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 15:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			03/29/22 15:22	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			03/29/22 15:22	1
Naphthalene	ND	*+	3.0	0.93	ug/L			03/29/22 15:22	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.43	ug/L			03/29/22 15:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/29/22 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*03/29/22 15:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/29/22 15:22*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/29/22 15:22*	*1*

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

Lab Sample ID: MB 580-385515/7
Matrix: Water
Analysis Batch: 385515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/29/22 14:03	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 14:03	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 14:03	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 14:03	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 14:03	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			03/29/22 14:03	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/29/22 14:03	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/29/22 14:03	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 14:03	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 14:03	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 14:03	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 14:03	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 14:03	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 14:03	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 14:03	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 14:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 14:03	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 14:03	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 14:03	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 14:03	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 14:03	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 14:03	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 14:03	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 14:03	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/29/22 14:03	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 14:03	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/29/22 14:03	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 14:03	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 14:03	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 14:03	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 14:03	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 14:03	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 14:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			03/29/22 14:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 14:03	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 14:03	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 14:03	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 14:03	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 14:03	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 14:03	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 14:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 14:03	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 14:03	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 14:03	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 14:03	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 14:03	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 14:03	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/29/22 14:03	1

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

Lab Sample ID: MB 580-385515/7
Matrix: Water
Analysis Batch: 385515

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		1.0	0.49	ug/L			03/29/22 14:03	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/29/22 14:03	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 14:03	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 14:03	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 14:03	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 14:03	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/29/22 14:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			03/29/22 14:03	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			03/29/22 14:03	1
Naphthalene	ND		3.0	0.93	ug/L			03/29/22 14:03	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			03/29/22 14:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*03/29/22 14:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/29/22 14:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/29/22 14:03*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*03/29/22 14:03*	*1*

Lab Sample ID: LCS 580-385515/4
Matrix: Water
Analysis Batch: 385515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	5.00	2.70		ug/L		54	20 - 150
Chloromethane	5.00	3.97		ug/L		79	25 - 150
Bromomethane	5.00	5.52		ug/L		110	36 - 150
Chloroethane	5.00	6.37		ug/L		127	38 - 150
Trichlorofluoromethane	5.00	4.86		ug/L		97	45 - 148
1,1-Dichloroethene	5.00	5.66		ug/L		113	70 - 129
Methylene Chloride	5.00	4.68		ug/L		94	77 - 125
Methyl tert-butyl ether	5.00	7.60	*+	ug/L		152	72 - 120
trans-1,2-Dichloroethene	5.00	4.93		ug/L		99	75 - 120
1,1-Dichloroethane	5.00	5.16		ug/L		103	80 - 120
Vinyl chloride	5.00	4.31		ug/L		86	31 - 150
2,2-Dichloropropane	5.00	6.17		ug/L		123	66 - 126
cis-1,2-Dichloroethene	5.00	5.34		ug/L		107	76 - 120
Bromochloromethane	5.00	5.02		ug/L		100	78 - 120
Chloroform	5.00	4.95		ug/L		99	78 - 127
1,1,1-Trichloroethane	5.00	5.25		ug/L		105	74 - 130
Carbon tetrachloride	5.00	4.77		ug/L		95	72 - 129
1,1-Dichloropropene	5.00	5.58		ug/L		112	74 - 120
Benzene	5.00	5.57		ug/L		111	80 - 122
1,2-Dichloroethane	5.00	5.21		ug/L		104	69 - 126
Trichloroethene	5.00	4.87		ug/L		97	80 - 125
1,2-Dichloropropane	5.00	5.12		ug/L		102	80 - 120
Dibromomethane	5.00	4.38		ug/L		88	80 - 120
Dichlorobromomethane	5.00	4.93		ug/L		99	75 - 124

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

Lab Sample ID: LCS 580-385515/4
Matrix: Water
Analysis Batch: 385515

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	5.00	6.12	*+	ug/L		122	77 - 120
Toluene	5.00	5.53		ug/L		111	80 - 120
trans-1,3-Dichloropropene	5.00	6.17	*+	ug/L		123	76 - 122
1,1,2-Trichloroethane	5.00	4.73		ug/L		95	80 - 121
Tetrachloroethene	5.00	4.70		ug/L		94	76 - 125
1,3-Dichloropropane	5.00	5.53		ug/L		111	79 - 120
Chlorodibromomethane	5.00	4.61		ug/L		92	73 - 125
Ethylene Dibromide	5.00	5.32		ug/L		106	79 - 126
Chlorobenzene	5.00	4.84		ug/L		97	80 - 120
1,1,1,2-Tetrachloroethane	5.00	4.82		ug/L		96	79 - 120
Ethylbenzene	5.00	6.01		ug/L		120	80 - 120
m-Xylene & p-Xylene	5.00	5.77		ug/L		115	80 - 120
o-Xylene	5.00	5.93		ug/L		119	80 - 120
Styrene	5.00	5.74		ug/L		115	76 - 122
Bromoform	5.00	4.25		ug/L		85	56 - 139
Isopropylbenzene	5.00	5.74		ug/L		115	80 - 123
Bromobenzene	5.00	4.90		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	5.00	5.73		ug/L		115	74 - 124
1,2,3-Trichloropropane	5.00	5.16		ug/L		103	76 - 124
N-Propylbenzene	5.00	5.70		ug/L		114	80 - 122
2-Chlorotoluene	5.00	5.43		ug/L		109	80 - 120
4-Chlorotoluene	5.00	5.31		ug/L		106	73 - 129
tert-Butylbenzene	5.00	5.83		ug/L		117	75 - 123
1,2,4-Trimethylbenzene	5.00	6.06	*+	ug/L		121	80 - 120
sec-Butylbenzene	5.00	6.10		ug/L		122	78 - 122
4-Isopropyltoluene	5.00	6.21		ug/L		124	77 - 126
1,3-Dichlorobenzene	5.00	5.48		ug/L		110	77 - 127
1,4-Dichlorobenzene	5.00	4.84		ug/L		97	80 - 120
n-Butylbenzene	5.00	5.62		ug/L		112	57 - 133
1,2-Dichlorobenzene	5.00	5.49		ug/L		110	80 - 120
1,2-Dibromo-3-Chloropropane	5.00	4.93		ug/L		99	65 - 133
1,2,4-Trichlorobenzene	5.00	6.85		ug/L		137	61 - 148
Hexachlorobutadiene	5.00	5.45		ug/L		109	74 - 131
Naphthalene	5.00	8.48	*+	ug/L		170	63 - 150
1,2,3-Trichlorobenzene	5.00	7.69	*+	ug/L		154	65 - 150
1,3,5-Trimethylbenzene	5.00	5.93		ug/L		119	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*

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

Lab Sample ID: LCSD 580-385515/5
Matrix: Water
Analysis Batch: 385515

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
Dichlorodifluoromethane			5.00	2.65		ug/L		53	20 - 150	2	33
Chloromethane			5.00	3.72		ug/L		74	25 - 150	6	26
Bromomethane			5.00	5.35		ug/L		107	36 - 150	3	33
Chloroethane			5.00	6.04		ug/L		121	38 - 150	5	28
Trichlorofluoromethane			5.00	4.85		ug/L		97	45 - 148	0	35
1,1-Dichloroethene			5.00	5.54		ug/L		111	70 - 129	2	23
Methylene Chloride			5.00	4.54		ug/L		91	77 - 125	3	18
Methyl tert-butyl ether			5.00	7.23	*+	ug/L		145	72 - 120	5	18
trans-1,2-Dichloroethene			5.00	4.83		ug/L		97	75 - 120	2	21
1,1-Dichloroethane			5.00	5.12		ug/L		102	80 - 120	1	15
Vinyl chloride			5.00	4.03		ug/L		81	31 - 150	7	26
2,2-Dichloropropane			5.00	5.93		ug/L		119	66 - 126	4	22
cis-1,2-Dichloroethene			5.00	5.18		ug/L		104	76 - 120	3	20
Bromochloromethane			5.00	4.93		ug/L		99	78 - 120	2	13
Chloroform			5.00	4.92		ug/L		98	78 - 127	1	14
1,1,1-Trichloroethane			5.00	5.09		ug/L		102	74 - 130	3	19
Carbon tetrachloride			5.00	4.59		ug/L		92	72 - 129	4	19
1,1-Dichloropropene			5.00	5.48		ug/L		110	74 - 120	2	14
Benzene			5.00	5.54		ug/L		111	80 - 122	1	14
1,2-Dichloroethane			5.00	5.09		ug/L		102	69 - 126	2	11
Trichloroethene			5.00	4.88		ug/L		98	80 - 125	0	13
1,2-Dichloropropane			5.00	5.02		ug/L		100	80 - 120	2	14
Dibromomethane			5.00	4.17		ug/L		83	80 - 120	5	11
Dichlorobromomethane			5.00	4.82		ug/L		96	75 - 124	2	13
cis-1,3-Dichloropropene			5.00	6.02		ug/L		120	77 - 120	2	35
Toluene			5.00	5.48		ug/L		110	80 - 120	1	13
trans-1,3-Dichloropropene			5.00	6.21	*+	ug/L		124	76 - 122	1	20
1,1,2-Trichloroethane			5.00	4.62		ug/L		92	80 - 121	2	14
Tetrachloroethene			5.00	4.64		ug/L		93	76 - 125	1	13
1,3-Dichloropropane			5.00	5.46		ug/L		109	79 - 120	1	19
Chlorodibromomethane			5.00	4.56		ug/L		91	73 - 125	1	13
Ethylene Dibromide			5.00	5.15		ug/L		103	79 - 126	3	12
Chlorobenzene			5.00	4.83		ug/L		97	80 - 120	0	10
1,1,1,2-Tetrachloroethane			5.00	4.79		ug/L		96	79 - 120	1	16
Ethylbenzene			5.00	5.99		ug/L		120	80 - 120	0	14
m-Xylene & p-Xylene			5.00	5.65		ug/L		113	80 - 120	2	14
o-Xylene			5.00	5.87		ug/L		117	80 - 120	1	16
Styrene			5.00	5.73		ug/L		115	76 - 122	0	16
Bromoform			5.00	4.17		ug/L		83	56 - 139	2	21
Isopropylbenzene			5.00	5.69		ug/L		114	80 - 123	1	19
Bromobenzene			5.00	4.89		ug/L		98	80 - 120	0	24
1,1,2,2-Tetrachloroethane			5.00	5.69		ug/L		114	74 - 124	1	25
1,2,3-Trichloropropane			5.00	5.04		ug/L		101	76 - 124	2	26
N-Propylbenzene			5.00	5.80		ug/L		116	80 - 122	2	22
2-Chlorotoluene			5.00	5.49		ug/L		110	80 - 120	1	20
4-Chlorotoluene			5.00	5.38		ug/L		108	73 - 129	1	29
tert-Butylbenzene			5.00	5.90		ug/L		118	75 - 123	1	21
1,2,4-Trimethylbenzene			5.00	6.17	*+	ug/L		123	80 - 120	2	16

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

Lab Sample ID: LCSD 580-385515/5
Matrix: Water
Analysis Batch: 385515

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
sec-Butylbenzene			5.00	6.19	*+	ug/L		124	78 - 122	1	15
4-Isopropyltoluene			5.00	6.33	*+	ug/L		127	77 - 126	2	20
1,3-Dichlorobenzene			5.00	5.51		ug/L		110	77 - 127	1	35
1,4-Dichlorobenzene			5.00	4.93		ug/L		99	80 - 120	2	17
n-Butylbenzene			5.00	5.75		ug/L		115	57 - 133	2	14
1,2-Dichlorobenzene			5.00	5.52		ug/L		110	80 - 120	1	15
1,2-Dibromo-3-Chloropropane			5.00	4.75		ug/L		95	65 - 133	4	25
1,2,4-Trichlorobenzene			5.00	6.80		ug/L		136	61 - 148	1	27
Hexachlorobutadiene			5.00	5.49		ug/L		110	74 - 131	1	22
Naphthalene			5.00	8.19	*+	ug/L		164	63 - 150	3	33
1,2,3-Trichlorobenzene			5.00	7.50		ug/L		150	65 - 150	2	33
1,3,5-Trimethylbenzene			5.00	6.05		ug/L		121	80 - 122	2	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 580-385641/18
Matrix: Water
Analysis Batch: 385641

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/29/22 17:03	1
Chloromethane	ND		1.0	0.28	ug/L			03/29/22 17:03	1
Bromomethane	ND		1.0	0.21	ug/L			03/29/22 17:03	1
Chloroethane	ND		1.0	0.35	ug/L			03/29/22 17:03	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/29/22 17:03	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/29/22 17:03	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/29/22 17:03	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/29/22 17:03	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/29/22 17:03	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/29/22 17:03	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/29/22 17:03	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/29/22 17:03	1
Chloroform	ND		1.0	0.26	ug/L			03/29/22 17:03	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/29/22 17:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/29/22 17:03	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/29/22 17:03	1
Benzene	ND		1.0	0.24	ug/L			03/29/22 17:03	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/29/22 17:03	1
Trichloroethene	ND		1.0	0.26	ug/L			03/29/22 17:03	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/29/22 17:03	1
Dibromomethane	ND		1.0	0.34	ug/L			03/29/22 17:03	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/29/22 17:03	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/29/22 17:03	1
Toluene	ND		1.0	0.39	ug/L			03/29/22 17:03	1

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

Lab Sample ID: MB 580-385641/18
Matrix: Water
Analysis Batch: 385641

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/29/22 17:03	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/29/22 17:03	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/29/22 17:03	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/29/22 17:03	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/29/22 17:03	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/29/22 17:03	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/29/22 17:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/29/22 17:03	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/29/22 17:03	1
o-Xylene	ND		1.0	0.39	ug/L			03/29/22 17:03	1
Styrene	ND		1.0	0.53	ug/L			03/29/22 17:03	1
Bromoform	ND		1.0	0.51	ug/L			03/29/22 17:03	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/29/22 17:03	1
Bromobenzene	ND		1.0	0.43	ug/L			03/29/22 17:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/29/22 17:03	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/29/22 17:03	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/29/22 17:03	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/29/22 17:03	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/29/22 17:03	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/29/22 17:03	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/29/22 17:03	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/29/22 17:03	1
4-Isopropyltoluene	0.304	J	1.0	0.28	ug/L			03/29/22 17:03	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/29/22 17:03	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 17:03	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/29/22 17:03	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/29/22 17:03	1
1,2-Dibromo-3-Chloropropane	0.935	J	3.0	0.57	ug/L			03/29/22 17:03	1
Naphthalene	2.81	J	3.0	0.93	ug/L			03/29/22 17:03	1
1,2,3-Trichlorobenzene	3.05		2.0	0.43	ug/L			03/29/22 17:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/29/22 17:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*03/29/22 17:03*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*03/29/22 17:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/29/22 17:03*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*03/29/22 17:03*	*1*

Lab Sample ID: LCS 580-385641/16
Matrix: Water
Analysis Batch: 385641

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	15.8	*+	ug/L		158	20 - 150
Chloromethane	10.0	11.6		ug/L		116	25 - 150
Bromomethane	10.0	12.5		ug/L		125	36 - 150
Chloroethane	10.0	11.2		ug/L		112	38 - 150
Trichlorofluoromethane	10.0	11.5		ug/L		115	45 - 148

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

Lab Sample ID: LCS 580-385641/16
Matrix: Water
Analysis Batch: 385641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tert-butyl ether	10.0	10.7		ug/L		107	72 - 120
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	75 - 120
1,1-Dichloroethane	10.0	10.1		ug/L		101	80 - 120
Vinyl chloride	10.0	12.9		ug/L		129	31 - 150
2,2-Dichloropropane	10.0	9.93		ug/L		99	66 - 126
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	76 - 120
Bromochloromethane	10.0	10.0		ug/L		100	78 - 120
Chloroform	10.0	9.37		ug/L		94	78 - 127
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	74 - 130
Carbon tetrachloride	10.0	10.7		ug/L		107	72 - 129
1,1-Dichloropropene	10.0	9.60		ug/L		96	74 - 120
Benzene	10.0	9.56		ug/L		96	80 - 122
1,2-Dichloroethane	10.0	9.66		ug/L		97	69 - 126
Trichloroethene	10.0	8.62		ug/L		86	80 - 125
1,2-Dichloropropane	10.0	8.89		ug/L		89	80 - 120
Dibromomethane	10.0	10.1		ug/L		101	80 - 120
Dichlorobromomethane	10.0	9.21		ug/L		92	75 - 124
cis-1,3-Dichloropropene	10.0	8.45		ug/L		85	77 - 120
Toluene	10.0	9.30		ug/L		93	80 - 120
trans-1,3-Dichloropropene	10.0	9.60		ug/L		96	76 - 122
1,1,2-Trichloroethane	10.0	9.36		ug/L		94	80 - 121
Tetrachloroethene	10.0	10.1		ug/L		101	76 - 125
1,3-Dichloropropane	10.0	9.23		ug/L		92	79 - 120
Chlorodibromomethane	10.0	9.56		ug/L		96	73 - 125
Ethylene Dibromide	10.0	9.53		ug/L		95	79 - 126
Chlorobenzene	10.0	9.93		ug/L		99	80 - 120
Ethylbenzene	10.0	9.49		ug/L		95	80 - 120
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 120
o-Xylene	10.0	9.54		ug/L		95	80 - 120
Styrene	10.0	9.90		ug/L		99	76 - 122
Bromoform	10.0	10.3		ug/L		103	56 - 139
Isopropylbenzene	10.0	9.60		ug/L		96	80 - 123
Bromobenzene	10.0	9.11		ug/L		91	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.72		ug/L		97	74 - 124
1,2,3-Trichloropropane	10.0	9.67		ug/L		97	76 - 124
N-Propylbenzene	10.0	9.12		ug/L		91	80 - 122
2-Chlorotoluene	10.0	9.39		ug/L		94	80 - 120
4-Chlorotoluene	10.0	9.44		ug/L		94	73 - 129
tert-Butylbenzene	10.0	10.4		ug/L		104	75 - 123
1,2,4-Trimethylbenzene	10.0	9.68		ug/L		97	80 - 120
sec-Butylbenzene	10.0	9.20		ug/L		92	78 - 122
4-Isopropyltoluene	10.0	9.36		ug/L		94	77 - 126
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	77 - 127
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
n-Butylbenzene	10.0	9.82		ug/L		98	57 - 133
1,2-Dichlorobenzene	10.0	9.99		ug/L		100	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.67		ug/L		97	65 - 133
Naphthalene	10.0	9.54		ug/L		95	63 - 150
1,2,3-Trichlorobenzene	10.0	8.92		ug/L		89	65 - 150

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

Lab Sample ID: LCS 580-385641/16
Matrix: Water
Analysis Batch: 385641

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,3,5-Trimethylbenzene			10.0	9.29		ug/L		93	80 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 120*

Lab Sample ID: LCSD 580-385641/17
Matrix: Water
Analysis Batch: 385641

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
Dichlorodifluoromethane			10.0	13.8		ug/L		138	20 - 150	13	33
Chloromethane			10.0	10.7		ug/L		107	25 - 150	8	26
Bromomethane			10.0	11.3		ug/L		113	36 - 150	10	33
Chloroethane			10.0	9.55		ug/L		96	38 - 150	16	28
Trichlorofluoromethane			10.0	10.5		ug/L		105	45 - 148	9	35
Methyl tert-butyl ether			10.0	9.83		ug/L		98	72 - 120	8	18
trans-1,2-Dichloroethene			10.0	10.0		ug/L		100	75 - 120	6	21
1,1-Dichloroethane			10.0	9.32		ug/L		93	80 - 120	8	15
Vinyl chloride			10.0	11.3		ug/L		113	31 - 150	13	26
2,2-Dichloropropane			10.0	8.81		ug/L		88	66 - 126	12	22
cis-1,2-Dichloroethene			10.0	9.45		ug/L		95	76 - 120	9	20
Bromochloromethane			10.0	9.25		ug/L		93	78 - 120	8	13
Chloroform			10.0	8.44		ug/L		84	78 - 127	10	14
1,1,1-Trichloroethane			10.0	9.56		ug/L		96	74 - 130	12	19
Carbon tetrachloride			10.0	9.44		ug/L		94	72 - 129	13	19
1,1-Dichloropropene			10.0	8.82		ug/L		88	74 - 120	8	14
Benzene			10.0	8.66		ug/L		87	80 - 122	10	14
1,2-Dichloroethane			10.0	9.22		ug/L		92	69 - 126	5	11
Trichloroethene			10.0	8.40		ug/L		84	80 - 125	3	13
1,2-Dichloropropane			10.0	8.22		ug/L		82	80 - 120	8	14
Dibromomethane			10.0	9.95		ug/L		99	80 - 120	2	11
Dichlorobromomethane			10.0	8.59		ug/L		86	75 - 124	7	13
cis-1,3-Dichloropropene			10.0	9.03		ug/L		90	77 - 120	7	35
Toluene			10.0	8.66		ug/L		87	80 - 120	7	13
trans-1,3-Dichloropropene			10.0	9.75		ug/L		97	76 - 122	2	20
1,1,2-Trichloroethane			10.0	9.54		ug/L		95	80 - 121	2	14
Tetrachloroethene			10.0	9.60		ug/L		96	76 - 125	5	13
1,3-Dichloropropane			10.0	9.04		ug/L		90	79 - 120	2	19
Chlorodibromomethane			10.0	9.17		ug/L		92	73 - 125	4	13
Ethylene Dibromide			10.0	9.50		ug/L		95	79 - 126	0	12
Chlorobenzene			10.0	9.59		ug/L		96	80 - 120	4	10
Ethylbenzene			10.0	8.72		ug/L		87	80 - 120	9	14
m-Xylene & p-Xylene			10.0	9.35		ug/L		93	80 - 120	8	14
o-Xylene			10.0	8.76		ug/L		88	80 - 120	9	16
Styrene			10.0	9.23		ug/L		92	76 - 122	7	16

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

Lab Sample ID: LCSD 580-385641/17
Matrix: Water
Analysis Batch: 385641

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
Bromoform			10.0	9.83		ug/L		98	56 - 139	4	21
Isopropylbenzene			10.0	8.61		ug/L		86	80 - 123	11	19
Bromobenzene			10.0	9.13		ug/L		91	80 - 120	0	24
1,1,2,2-Tetrachloroethane			10.0	9.45		ug/L		95	74 - 124	3	25
1,2,3-Trichloropropane			10.0	9.73		ug/L		97	76 - 124	1	26
N-Propylbenzene			10.0	8.75		ug/L		88	80 - 122	4	22
2-Chlorotoluene			10.0	9.06		ug/L		91	80 - 120	4	20
4-Chlorotoluene			10.0	9.36		ug/L		94	73 - 129	1	29
tert-Butylbenzene			10.0	8.80		ug/L		88	75 - 123	17	21
1,2,4-Trimethylbenzene			10.0	9.24		ug/L		92	80 - 120	5	16
sec-Butylbenzene			10.0	8.93		ug/L		89	78 - 122	3	15
4-Isopropyltoluene			10.0	9.23		ug/L		92	77 - 126	1	20
1,3-Dichlorobenzene			10.0	9.98		ug/L		100	77 - 127	6	35
1,4-Dichlorobenzene			10.0	10.0		ug/L		100	80 - 120	0	17
n-Butylbenzene			10.0	9.53		ug/L		95	57 - 133	3	14
1,2-Dichlorobenzene			10.0	9.95		ug/L		100	80 - 120	0	15
1,2-Dibromo-3-Chloropropane			10.0	9.74		ug/L		97	65 - 133	1	25
Naphthalene			10.0	10.1		ug/L		101	63 - 150	6	33
1,2,3-Trichlorobenzene			10.0	9.31		ug/L		93	65 - 150	4	33
1,3,5-Trimethylbenzene			10.0	9.03		ug/L		90	80 - 122	3	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 580-385667/7
Matrix: Water
Analysis Batch: 385667

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/30/22 11:26	1
Chloromethane	ND		1.0	0.28	ug/L			03/30/22 11:26	1
Bromomethane	ND		1.0	0.21	ug/L			03/30/22 11:26	1
Chloroethane	ND		1.0	0.35	ug/L			03/30/22 11:26	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/30/22 11:26	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			03/30/22 11:26	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/30/22 11:26	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/30/22 11:26	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/30/22 11:26	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/30/22 11:26	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/30/22 11:26	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/30/22 11:26	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/30/22 11:26	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/30/22 11:26	1
Chloroform	ND		1.0	0.26	ug/L			03/30/22 11:26	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/30/22 11:26	1

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

Lab Sample ID: MB 580-385667/7
Matrix: Water
Analysis Batch: 385667

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/30/22 11:26	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/30/22 11:26	1
Benzene	ND		1.0	0.24	ug/L			03/30/22 11:26	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/30/22 11:26	1
Trichloroethene	ND		1.0	0.26	ug/L			03/30/22 11:26	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/30/22 11:26	1
Dibromomethane	ND		1.0	0.34	ug/L			03/30/22 11:26	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/30/22 11:26	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/30/22 11:26	1
Toluene	ND		1.0	0.39	ug/L			03/30/22 11:26	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/30/22 11:26	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/30/22 11:26	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/30/22 11:26	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/30/22 11:26	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/30/22 11:26	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/30/22 11:26	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/30/22 11:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			03/30/22 11:26	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/30/22 11:26	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/30/22 11:26	1
o-Xylene	ND		1.0	0.39	ug/L			03/30/22 11:26	1
Styrene	ND		1.0	0.53	ug/L			03/30/22 11:26	1
Bromoform	ND		1.0	0.51	ug/L			03/30/22 11:26	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/30/22 11:26	1
Bromobenzene	ND		1.0	0.43	ug/L			03/30/22 11:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/30/22 11:26	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/30/22 11:26	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/30/22 11:26	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/30/22 11:26	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/30/22 11:26	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/30/22 11:26	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/30/22 11:26	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/30/22 11:26	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/30/22 11:26	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/30/22 11:26	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/22 11:26	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/30/22 11:26	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/30/22 11:26	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/30/22 11:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			03/30/22 11:26	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			03/30/22 11:26	1
Naphthalene	ND		3.0	0.93	ug/L			03/30/22 11:26	1
1,2,3-Trichlorobenzene	0.571	J	2.0	0.43	ug/L			03/30/22 11:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/30/22 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*132*	*S1+*	*80 - 120*		*03/30/22 11:26*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*03/30/22 11:26*	*1*

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

Lab Sample ID: MB 580-385667/7
Matrix: Water
Analysis Batch: 385667

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		03/30/22 11:26	1
Dibromofluoromethane (Surr)	124	S1+	80 - 120		03/30/22 11:26	1

Lab Sample ID: LCS 580-385667/4
Matrix: Water
Analysis Batch: 385667

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	5.00	5.99		ug/L		120	20 - 150
Chloromethane	5.00	5.26		ug/L		105	25 - 150
Bromomethane	5.00	7.60	*+	ug/L		152	36 - 150
Chloroethane	5.00	8.39	*+	ug/L		168	38 - 150
Trichlorofluoromethane	5.00	10.4	*+	ug/L		208	45 - 148
1,1-Dichloroethene	5.00	7.92	*+	ug/L		158	70 - 129
Methylene Chloride	5.00	5.58		ug/L		112	77 - 125
Methyl tert-butyl ether	5.00	8.77	*+	ug/L		175	72 - 120
trans-1,2-Dichloroethene	5.00	6.10	*+	ug/L		122	75 - 120
1,1-Dichloroethane	5.00	5.98		ug/L		120	80 - 120
Vinyl chloride	5.00	6.03		ug/L		121	31 - 150
2,2-Dichloropropane	5.00	8.49	*+	ug/L		170	66 - 126
cis-1,2-Dichloroethene	5.00	6.38	*+	ug/L		128	76 - 120
Bromochloromethane	5.00	6.30	*+	ug/L		126	78 - 120
Chloroform	5.00	6.42	*+	ug/L		128	78 - 127
1,1,1-Trichloroethane	5.00	8.05	*+	ug/L		161	74 - 130
Carbon tetrachloride	5.00	8.67	*+	ug/L		173	72 - 129
1,1-Dichloropropene	5.00	6.49	*+	ug/L		130	74 - 120
Benzene	5.00	5.58		ug/L		112	80 - 122
1,2-Dichloroethane	5.00	7.75	*+	ug/L		155	69 - 126
Trichloroethene	5.00	6.91	*+	ug/L		138	80 - 125
1,2-Dichloropropane	5.00	5.45		ug/L		109	80 - 120
Dibromomethane	5.00	6.74	*+	ug/L		135	80 - 120
Dichlorobromomethane	5.00	6.76	*+	ug/L		135	75 - 124
cis-1,3-Dichloropropene	5.00	6.54	*+	ug/L		131	77 - 120
Toluene	5.00	5.75		ug/L		115	80 - 120
trans-1,3-Dichloropropene	5.00	7.23	*+	ug/L		145	76 - 122
1,1,2-Trichloroethane	5.00	5.42		ug/L		108	80 - 121
Tetrachloroethene	5.00	6.77	*+	ug/L		135	76 - 125
1,3-Dichloropropane	5.00	5.83		ug/L		117	79 - 120
Chlorodibromomethane	5.00	7.14	*+	ug/L		143	73 - 125
Ethylene Dibromide	5.00	6.44	*+	ug/L		129	79 - 126
Chlorobenzene	5.00	5.51		ug/L		110	80 - 120
1,1,1,2-Tetrachloroethane	5.00	6.84	*+	ug/L		137	79 - 120
Ethylbenzene	5.00	6.44	*+	ug/L		129	80 - 120
m-Xylene & p-Xylene	5.00	6.51	*+	ug/L		130	80 - 120
o-Xylene	5.00	6.78	*+	ug/L		136	80 - 120
Styrene	5.00	6.52	*+	ug/L		130	76 - 122
Bromoform	5.00	7.62	*+	ug/L		152	56 - 139
Isopropylbenzene	5.00	6.91	*+	ug/L		138	80 - 123

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

Lab Sample ID: LCS 580-385667/4
Matrix: Water
Analysis Batch: 385667

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	5.00	6.06	*+	ug/L		121	80 - 120
1,1,2,2-Tetrachloroethane	5.00	5.44		ug/L		109	74 - 124
1,2,3-Trichloropropane	5.00	6.27	*+	ug/L		125	76 - 124
N-Propylbenzene	5.00	5.75		ug/L		115	80 - 122
2-Chlorotoluene	5.00	6.21	*+	ug/L		124	80 - 120
4-Chlorotoluene	5.00	5.91		ug/L		118	73 - 129
tert-Butylbenzene	5.00	6.85	*+	ug/L		137	75 - 123
1,2,4-Trimethylbenzene	5.00	6.70	*+	ug/L		134	80 - 120
sec-Butylbenzene	5.00	6.75	*+	ug/L		135	78 - 122
4-Isopropyltoluene	5.00	7.18	*+	ug/L		144	77 - 126
1,3-Dichlorobenzene	5.00	6.55	*+	ug/L		131	77 - 127
1,4-Dichlorobenzene	5.00	5.56		ug/L		111	80 - 120
n-Butylbenzene	5.00	6.98	*+	ug/L		140	57 - 133
1,2-Dichlorobenzene	5.00	6.80	*+	ug/L		136	80 - 120
1,2-Dibromo-3-Chloropropane	5.00	7.62	*+	ug/L		152	65 - 133
1,2,4-Trichlorobenzene	5.00	10.3	*+	ug/L		205	61 - 148
Hexachlorobutadiene	5.00	9.94	*+	ug/L		199	74 - 131
Naphthalene	5.00	10.8	*+	ug/L		215	63 - 150
1,2,3-Trichlorobenzene	5.00	12.5	*+	ug/L		250	65 - 150
1,3,5-Trimethylbenzene	5.00	6.66	*+	ug/L		133	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 120*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 120*

Lab Sample ID: LCSD 580-385667/5
Matrix: Water
Analysis Batch: 385667

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
Dichlorodifluoromethane	5.00	5.19		ug/L		104	20 - 150	14	33
Chloromethane	5.00	4.98		ug/L		100	25 - 150	5	26
Bromomethane	5.00	6.91		ug/L		138	36 - 150	10	33
Chloroethane	5.00	8.07	*+	ug/L		161	38 - 150	4	28
Trichlorofluoromethane	5.00	8.77	*+	ug/L		175	45 - 148	17	35
1,1-Dichloroethene	5.00	6.64	*+	ug/L		133	70 - 129	18	23
Methylene Chloride	5.00	4.68		ug/L		94	77 - 125	17	18
Methyl tert-butyl ether	5.00	7.50	*+	ug/L		150	72 - 120	16	18
trans-1,2-Dichloroethene	5.00	4.83	*1	ug/L		97	75 - 120	23	21
1,1-Dichloroethane	5.00	4.75	*1	ug/L		95	80 - 120	23	15
Vinyl chloride	5.00	5.26		ug/L		105	31 - 150	14	26
2,2-Dichloropropane	5.00	7.16	*+	ug/L		143	66 - 126	17	22
cis-1,2-Dichloroethene	5.00	5.07	*1	ug/L		101	76 - 120	23	20
Bromochloromethane	5.00	5.35	*1	ug/L		107	78 - 120	16	13
Chloroform	5.00	5.07	*1	ug/L		101	78 - 127	23	14
1,1,1-Trichloroethane	5.00	6.70	*+	ug/L		134	74 - 130	18	19

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

Lab Sample ID: LCSD 580-385667/5
Matrix: Water
Analysis Batch: 385667

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
Carbon tetrachloride			5.00	7.36	*+	ug/L		147	72 - 129	16	19
1,1-Dichloropropene			5.00	4.92	*1	ug/L		98	74 - 120	28	14
Benzene			5.00	4.51	*1	ug/L		90	80 - 122	21	14
1,2-Dichloroethane			5.00	6.38	*+ *1	ug/L		128	69 - 126	19	11
Trichloroethene			5.00	5.53	*1	ug/L		111	80 - 125	22	13
1,2-Dichloropropane			5.00	4.51	*1	ug/L		90	80 - 120	19	14
Dibromomethane			5.00	5.54	*1	ug/L		111	80 - 120	19	11
Dichlorobromomethane			5.00	5.42	*1	ug/L		108	75 - 124	22	13
cis-1,3-Dichloropropene			5.00	5.13		ug/L		103	77 - 120	24	35
Toluene			5.00	4.52	*1	ug/L		90	80 - 120	24	13
trans-1,3-Dichloropropene			5.00	5.77	*1	ug/L		115	76 - 122	22	20
1,1,2-Trichloroethane			5.00	4.39	*1	ug/L		88	80 - 121	21	14
Tetrachloroethene			5.00	5.26	*1	ug/L		105	76 - 125	25	13
1,3-Dichloropropane			5.00	4.55	*1	ug/L		91	79 - 120	25	19
Chlorodibromomethane			5.00	5.76	*1	ug/L		115	73 - 125	21	13
Ethylene Dibromide			5.00	5.34	*1	ug/L		107	79 - 126	19	12
Chlorobenzene			5.00	4.38	*1	ug/L		88	80 - 120	23	10
1,1,1,2-Tetrachloroethane			5.00	5.42	*1	ug/L		108	79 - 120	23	16
Ethylbenzene			5.00	5.23	*1	ug/L		105	80 - 120	21	14
m-Xylene & p-Xylene			5.00	5.28	*1	ug/L		106	80 - 120	21	14
o-Xylene			5.00	5.46	*1	ug/L		109	80 - 120	22	16
Styrene			5.00	5.26	*1	ug/L		105	76 - 122	21	16
Bromoform			5.00	6.33		ug/L		127	56 - 139	19	21
Isopropylbenzene			5.00	5.60	*1	ug/L		112	80 - 123	21	19
Bromobenzene			5.00	4.74		ug/L		95	80 - 120	24	24
1,1,2,2-Tetrachloroethane			5.00	4.13	*1	ug/L		83	74 - 124	27	25
1,2,3-Trichloropropane			5.00	5.01		ug/L		100	76 - 124	22	26
N-Propylbenzene			5.00	4.52	*1	ug/L		90	80 - 122	24	22
2-Chlorotoluene			5.00	4.83	*1	ug/L		97	80 - 120	25	20
4-Chlorotoluene			5.00	4.64		ug/L		93	73 - 129	24	29
tert-Butylbenzene			5.00	5.27	*1	ug/L		105	75 - 123	26	21
1,2,4-Trimethylbenzene			5.00	5.21	*1	ug/L		104	80 - 120	25	16
sec-Butylbenzene			5.00	5.20	*1	ug/L		104	78 - 122	26	15
4-Isopropyltoluene			5.00	5.51	*1	ug/L		110	77 - 126	26	20
1,3-Dichlorobenzene			5.00	5.12		ug/L		102	77 - 127	24	35
1,4-Dichlorobenzene			5.00	4.36	*1	ug/L		87	80 - 120	24	17
n-Butylbenzene			5.00	5.46	*1	ug/L		109	57 - 133	24	14
1,2-Dichlorobenzene			5.00	5.32	*1	ug/L		106	80 - 120	24	15
1,2-Dibromo-3-Chloropropane			5.00	5.77	*1	ug/L		115	65 - 133	28	25
1,2,4-Trichlorobenzene			5.00	7.01	*1	ug/L		140	61 - 148	38	27
Hexachlorobutadiene			5.00	7.26	*+ *1	ug/L		145	74 - 131	31	22
Naphthalene			5.00	7.47	*1	ug/L		149	63 - 150	36	33
1,2,3-Trichlorobenzene			5.00	7.74	*+ *1	ug/L		155	65 - 150	47	33
1,3,5-Trimethylbenzene			5.00	5.15	*1	ug/L		103	80 - 122	26	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*	*S1+*	*80 - 120*
4-Bromofluorobenzene (Surr)	*125*	*S1+*	*80 - 120*

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

Lab Sample ID: LCSD 580-385667/5
Matrix: Water
Analysis Batch: 385667

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 120*

Lab Sample ID: MB 580-385858/7
Matrix: Water
Analysis Batch: 385858

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			03/31/22 10:48	1
Chloromethane	ND		1.0	0.28	ug/L			03/31/22 10:48	1
Bromomethane	ND		1.0	0.21	ug/L			03/31/22 10:48	1
Chloroethane	ND		1.0	0.35	ug/L			03/31/22 10:48	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			03/31/22 10:48	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			03/31/22 10:48	1
Methylene Chloride	ND		3.0	1.4	ug/L			03/31/22 10:48	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/31/22 10:48	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			03/31/22 10:48	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			03/31/22 10:48	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/31/22 10:48	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			03/31/22 10:48	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			03/31/22 10:48	1
Bromochloromethane	ND		1.0	0.29	ug/L			03/31/22 10:48	1
Chloroform	ND		1.0	0.26	ug/L			03/31/22 10:48	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			03/31/22 10:48	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/31/22 10:48	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			03/31/22 10:48	1
Benzene	ND		1.0	0.24	ug/L			03/31/22 10:48	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			03/31/22 10:48	1
Trichloroethene	ND		1.0	0.26	ug/L			03/31/22 10:48	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/31/22 10:48	1
Dibromomethane	ND		1.0	0.34	ug/L			03/31/22 10:48	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			03/31/22 10:48	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			03/31/22 10:48	1
Toluene	ND		1.0	0.39	ug/L			03/31/22 10:48	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			03/31/22 10:48	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/31/22 10:48	1
Tetrachloroethene	ND		1.0	0.41	ug/L			03/31/22 10:48	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			03/31/22 10:48	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			03/31/22 10:48	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			03/31/22 10:48	1
Chlorobenzene	ND		1.0	0.44	ug/L			03/31/22 10:48	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			03/31/22 10:48	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/31/22 10:48	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/31/22 10:48	1
o-Xylene	ND		1.0	0.39	ug/L			03/31/22 10:48	1
Styrene	ND		1.0	0.53	ug/L			03/31/22 10:48	1
Bromoform	ND		1.0	0.51	ug/L			03/31/22 10:48	1
Isopropylbenzene	ND		1.0	0.44	ug/L			03/31/22 10:48	1

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

Lab Sample ID: MB 580-385858/7
Matrix: Water
Analysis Batch: 385858

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.0	0.43	ug/L			03/31/22 10:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			03/31/22 10:48	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			03/31/22 10:48	1
N-Propylbenzene	ND		1.0	0.50	ug/L			03/31/22 10:48	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			03/31/22 10:48	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			03/31/22 10:48	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			03/31/22 10:48	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/31/22 10:48	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			03/31/22 10:48	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			03/31/22 10:48	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			03/31/22 10:48	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 10:48	1
n-Butylbenzene	ND		1.0	0.44	ug/L			03/31/22 10:48	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			03/31/22 10:48	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			03/31/22 10:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			03/31/22 10:48	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			03/31/22 10:48	1
Naphthalene	ND		3.0	0.93	ug/L			03/31/22 10:48	1
1,2,3-Trichlorobenzene	0.514	J	2.0	0.43	ug/L			03/31/22 10:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			03/31/22 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*144*	*S1+*	*80 - 120*		*03/31/22 10:48*	*1*
4-Bromofluorobenzene (Surr)	*122*	*S1+*	*80 - 120*		*03/31/22 10:48*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/31/22 10:48*	*1*
Dibromofluoromethane (Surr)	*125*	*S1+*	*80 - 120*		*03/31/22 10:48*	*1*

Lab Sample ID: LCS 580-385858/4
Matrix: Water
Analysis Batch: 385858

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	5.00	6.99		ug/L		140	20 - 150
Chloromethane	5.00	5.50		ug/L		110	25 - 150
Bromomethane	5.00	7.50		ug/L		150	36 - 150
Chloroethane	5.00	3.16		ug/L		63	38 - 150
Trichlorofluoromethane	5.00	9.64	*+	ug/L		193	45 - 148
1,1-Dichloroethene	5.00	7.42	*+	ug/L		148	70 - 129
Methylene Chloride	5.00	4.42		ug/L		88	77 - 125
Methyl tert-butyl ether	5.00	7.48	*+	ug/L		150	72 - 120
trans-1,2-Dichloroethene	5.00	5.08		ug/L		102	75 - 120
1,1-Dichloroethane	5.00	5.24		ug/L		105	80 - 120
Vinyl chloride	5.00	5.81		ug/L		116	31 - 150
2,2-Dichloropropane	5.00	7.47	*+	ug/L		149	66 - 126
cis-1,2-Dichloroethene	5.00	5.31		ug/L		106	76 - 120
Bromochloromethane	5.00	5.67		ug/L		113	78 - 120
Chloroform	5.00	5.99		ug/L		120	78 - 127
1,1,1-Trichloroethane	5.00	7.36	*+	ug/L		147	74 - 130

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

Lab Sample ID: LCS 580-385858/4
Matrix: Water
Analysis Batch: 385858

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	5.00	8.19	*+	ug/L		164	72 - 129
1,1-Dichloropropene	5.00	5.53		ug/L		111	74 - 120
Benzene	5.00	4.82		ug/L		96	80 - 122
1,2-Dichloroethane	5.00	7.51	*+	ug/L		150	69 - 126
Trichloroethene	5.00	6.24		ug/L		125	80 - 125
1,2-Dichloropropane	5.00	4.82		ug/L		96	80 - 120
Dibromomethane	5.00	5.95		ug/L		119	80 - 120
Dichlorobromomethane	5.00	6.39	*+	ug/L		128	75 - 124
cis-1,3-Dichloropropene	5.00	5.80		ug/L		116	77 - 120
Toluene	5.00	5.14		ug/L		103	80 - 120
trans-1,3-Dichloropropene	5.00	6.60	*+	ug/L		132	76 - 122
1,1,2-Trichloroethane	5.00	4.96		ug/L		99	80 - 121
Tetrachloroethene	5.00	6.22		ug/L		124	76 - 125
1,3-Dichloropropane	5.00	5.06		ug/L		101	79 - 120
Chlorodibromomethane	5.00	6.87	*+	ug/L		137	73 - 125
Ethylene Dibromide	5.00	5.78		ug/L		116	79 - 126
Chlorobenzene	5.00	5.01		ug/L		100	80 - 120
1,1,1,2-Tetrachloroethane	5.00	6.53	*+	ug/L		131	79 - 120
Ethylbenzene	5.00	5.83		ug/L		117	80 - 120
m-Xylene & p-Xylene	5.00	5.88		ug/L		118	80 - 120
o-Xylene	5.00	6.06	*+	ug/L		121	80 - 120
Styrene	5.00	5.86		ug/L		117	76 - 122
Bromoform	5.00	7.51	*+	ug/L		150	56 - 139
Isopropylbenzene	5.00	6.35	*+	ug/L		127	80 - 123
Bromobenzene	5.00	5.38		ug/L		108	80 - 120
1,1,2,2-Tetrachloroethane	5.00	4.55		ug/L		91	74 - 124
1,2,3-Trichloropropane	5.00	5.38		ug/L		108	76 - 124
N-Propylbenzene	5.00	5.01		ug/L		100	80 - 122
2-Chlorotoluene	5.00	5.42		ug/L		108	80 - 120
4-Chlorotoluene	5.00	5.25		ug/L		105	73 - 129
tert-Butylbenzene	5.00	5.93		ug/L		119	75 - 123
1,2,4-Trimethylbenzene	5.00	6.01		ug/L		120	80 - 120
sec-Butylbenzene	5.00	5.86		ug/L		117	78 - 122
4-Isopropyltoluene	5.00	6.40	*+	ug/L		128	77 - 126
1,3-Dichlorobenzene	5.00	5.93		ug/L		119	77 - 127
1,4-Dichlorobenzene	5.00	5.04		ug/L		101	80 - 120
n-Butylbenzene	5.00	6.35		ug/L		127	57 - 133
1,2-Dichlorobenzene	5.00	6.23	*+	ug/L		125	80 - 120
1,2-Dibromo-3-Chloropropane	5.00	7.01	*+	ug/L		140	65 - 133
1,2,4-Trichlorobenzene	5.00	9.24	*+	ug/L		185	61 - 148
Hexachlorobutadiene	5.00	8.95	*+	ug/L		179	74 - 131
Naphthalene	5.00	9.73	*+	ug/L		195	63 - 150
1,2,3-Trichlorobenzene	5.00	11.6	*+	ug/L		231	65 - 150
1,3,5-Trimethylbenzene	5.00	5.85		ug/L		117	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*126*	*S1+*	*80 - 120*
4-Bromofluorobenzene (Surr)	*123*	*S1+*	*80 - 120*

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

Lab Sample ID: LCS 580-385858/4
Matrix: Water
Analysis Batch: 385858

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*115*		*80 - 120*

Lab Sample ID: LCSD 580-385858/5
Matrix: Water
Analysis Batch: 385858

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
Dichlorodifluoromethane			5.00	7.32		ug/L		146	20 - 150	5	33
Chloromethane			5.00	5.56		ug/L		111	25 - 150	1	26
Bromomethane			5.00	7.65	*+	ug/L		153	36 - 150	2	33
Chloroethane			5.00	7.99	*+ *1	ug/L		160	38 - 150	87	28
Trichlorofluoromethane			5.00	10.1	*+	ug/L		202	45 - 148	5	35
1,1-Dichloroethene			5.00	7.73	*+	ug/L		155	70 - 129	4	23
Methylene Chloride			5.00	4.58		ug/L		92	77 - 125	3	18
Methyl tert-butyl ether			5.00	7.84	*+	ug/L		157	72 - 120	5	18
trans-1,2-Dichloroethene			5.00	5.26		ug/L		105	75 - 120	3	21
1,1-Dichloroethane			5.00	5.28		ug/L		106	80 - 120	1	15
Vinyl chloride			5.00	5.74		ug/L		115	31 - 150	1	26
2,2-Dichloropropane			5.00	7.56	*+	ug/L		151	66 - 126	1	22
cis-1,2-Dichloroethene			5.00	5.59		ug/L		112	76 - 120	5	20
Bromochloromethane			5.00	5.95		ug/L		119	78 - 120	5	13
Chloroform			5.00	5.91		ug/L		118	78 - 127	1	14
1,1,1-Trichloroethane			5.00	7.54	*+	ug/L		151	74 - 130	2	19
Carbon tetrachloride			5.00	8.50	*+	ug/L		170	72 - 129	4	19
1,1-Dichloropropene			5.00	5.39		ug/L		108	74 - 120	3	14
Benzene			5.00	4.74		ug/L		95	80 - 122	2	14
1,2-Dichloroethane			5.00	7.57	*+	ug/L		151	69 - 126	1	11
Trichloroethene			5.00	6.04		ug/L		121	80 - 125	3	13
1,2-Dichloropropane			5.00	4.78		ug/L		96	80 - 120	1	14
Dibromomethane			5.00	6.34	*+	ug/L		127	80 - 120	6	11
Dichlorobromomethane			5.00	6.40	*+	ug/L		128	75 - 124	0	13
cis-1,3-Dichloropropene			5.00	5.73		ug/L		115	77 - 120	1	35
Toluene			5.00	4.99		ug/L		100	80 - 120	3	13
trans-1,3-Dichloropropene			5.00	6.54	*+	ug/L		131	76 - 122	1	20
1,1,2-Trichloroethane			5.00	4.81		ug/L		96	80 - 121	3	14
Tetrachloroethene			5.00	6.09		ug/L		122	76 - 125	2	13
1,3-Dichloropropane			5.00	4.99		ug/L		100	79 - 120	1	19
Chlorodibromomethane			5.00	6.94	*+	ug/L		139	73 - 125	1	13
Ethylene Dibromide			5.00	5.80		ug/L		116	79 - 126	0	12
Chlorobenzene			5.00	5.03		ug/L		101	80 - 120	1	10
1,1,1,2-Tetrachloroethane			5.00	6.43	*+	ug/L		129	79 - 120	1	16
Ethylbenzene			5.00	5.72		ug/L		114	80 - 120	2	14
m-Xylene & p-Xylene			5.00	5.79		ug/L		116	80 - 120	2	14
o-Xylene			5.00	6.07	*+	ug/L		121	80 - 120	0	16
Styrene			5.00	5.92		ug/L		118	76 - 122	1	16
Bromoform			5.00	7.67	*+	ug/L		153	56 - 139	2	21
Isopropylbenzene			5.00	6.27	*+	ug/L		125	80 - 123	1	19

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

Lab Sample ID: LCSD 580-385858/5
Matrix: Water
Analysis Batch: 385858

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
Bromobenzene	5.00	5.23		ug/L		105	80 - 120	3	24
1,1,2,2-Tetrachloroethane	5.00	4.43		ug/L		89	74 - 124	3	25
1,2,3-Trichloropropane	5.00	5.33		ug/L		107	76 - 124	1	26
N-Propylbenzene	5.00	4.85		ug/L		97	80 - 122	3	22
2-Chlorotoluene	5.00	5.26		ug/L		105	80 - 120	3	20
4-Chlorotoluene	5.00	5.12		ug/L		102	73 - 129	3	29
tert-Butylbenzene	5.00	5.83		ug/L		117	75 - 123	2	21
1,2,4-Trimethylbenzene	5.00	5.83		ug/L		117	80 - 120	3	16
sec-Butylbenzene	5.00	5.74		ug/L		115	78 - 122	2	15
4-Isopropyltoluene	5.00	6.17		ug/L		123	77 - 126	4	20
1,3-Dichlorobenzene	5.00	5.81		ug/L		116	77 - 127	2	35
1,4-Dichlorobenzene	5.00	5.01		ug/L		100	80 - 120	1	17
n-Butylbenzene	5.00	6.05		ug/L		121	57 - 133	5	14
1,2-Dichlorobenzene	5.00	6.06	*+	ug/L		121	80 - 120	3	15
1,2-Dibromo-3-Chloropropane	5.00	7.23	*+	ug/L		145	65 - 133	3	25
1,2,4-Trichlorobenzene	5.00	9.06	*+	ug/L		181	61 - 148	2	27
Hexachlorobutadiene	5.00	8.66	*+	ug/L		173	74 - 131	3	22
Naphthalene	5.00	9.66	*+	ug/L		193	63 - 150	1	33
1,2,3-Trichlorobenzene	5.00	11.1	*+	ug/L		222	65 - 150	4	33
1,3,5-Trimethylbenzene	5.00	5.64		ug/L		113	80 - 122	4	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*130*	*S1+*	*80 - 120*
4-Bromofluorobenzene (Surr)	*126*	*S1+*	*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*119*		*80 - 120*

Lab Sample ID: MB 580-385877/17
Matrix: Water
Analysis Batch: 385877

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.598	J	2.0	0.43	ug/L			03/31/22 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*03/31/22 13:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/31/22 13:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/31/22 13:08*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*03/31/22 13:08*	*1*

Lab Sample ID: LCS 580-385877/18
Matrix: Water
Analysis Batch: 385877

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	10.0	9.81		ug/L		98	65 - 150

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

Lab Sample ID: LCS 580-385877/18
Matrix: Water
Analysis Batch: 385877

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 580-385877/19
Matrix: Water
Analysis Batch: 385877

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
1,2,3-Trichlorobenzene			10.0	10.0		ug/L		100	65 - 150	2	33

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 580-385935/5
Matrix: Water
Analysis Batch: 385935

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			04/01/22 01:00	1
Chloromethane	ND		1.0	0.28	ug/L			04/01/22 01:00	1
Bromomethane	ND		1.0	0.21	ug/L			04/01/22 01:00	1
Chloroethane	ND		1.0	0.35	ug/L			04/01/22 01:00	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			04/01/22 01:00	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			04/01/22 01:00	1
Methylene Chloride	ND		3.0	1.4	ug/L			04/01/22 01:00	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			04/01/22 01:00	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			04/01/22 01:00	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			04/01/22 01:00	1
Vinyl chloride	ND		1.0	0.22	ug/L			04/01/22 01:00	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			04/01/22 01:00	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			04/01/22 01:00	1
Bromochloromethane	ND		1.0	0.29	ug/L			04/01/22 01:00	1
Chloroform	ND		1.0	0.26	ug/L			04/01/22 01:00	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			04/01/22 01:00	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/01/22 01:00	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			04/01/22 01:00	1
Benzene	ND		1.0	0.24	ug/L			04/01/22 01:00	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			04/01/22 01:00	1
Trichloroethene	ND		1.0	0.26	ug/L			04/01/22 01:00	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			04/01/22 01:00	1
Dibromomethane	ND		1.0	0.34	ug/L			04/01/22 01:00	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			04/01/22 01:00	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			04/01/22 01:00	1

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

Lab Sample ID: MB 580-385935/5
Matrix: Water
Analysis Batch: 385935

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.730	J	1.0	0.39	ug/L			04/01/22 01:00	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			04/01/22 01:00	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			04/01/22 01:00	1
Tetrachloroethene	ND		1.0	0.41	ug/L			04/01/22 01:00	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			04/01/22 01:00	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			04/01/22 01:00	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			04/01/22 01:00	1
Chlorobenzene	ND		1.0	0.44	ug/L			04/01/22 01:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			04/01/22 01:00	1
Ethylbenzene	0.548	J	1.0	0.50	ug/L			04/01/22 01:00	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			04/01/22 01:00	1
o-Xylene	ND		1.0	0.39	ug/L			04/01/22 01:00	1
Styrene	0.607	J	1.0	0.53	ug/L			04/01/22 01:00	1
Bromoform	ND		1.0	0.51	ug/L			04/01/22 01:00	1
Isopropylbenzene	ND		1.0	0.44	ug/L			04/01/22 01:00	1
Bromobenzene	ND		1.0	0.43	ug/L			04/01/22 01:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			04/01/22 01:00	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			04/01/22 01:00	1
N-Propylbenzene	ND		1.0	0.50	ug/L			04/01/22 01:00	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			04/01/22 01:00	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			04/01/22 01:00	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			04/01/22 01:00	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			04/01/22 01:00	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			04/01/22 01:00	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			04/01/22 01:00	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			04/01/22 01:00	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			04/01/22 01:00	1
n-Butylbenzene	ND		1.0	0.44	ug/L			04/01/22 01:00	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			04/01/22 01:00	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			04/01/22 01:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			04/01/22 01:00	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			04/01/22 01:00	1
Naphthalene	ND		3.0	0.93	ug/L			04/01/22 01:00	1
1,2,3-Trichlorobenzene	0.531	J	2.0	0.43	ug/L			04/01/22 01:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			04/01/22 01:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*04/01/22 01:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/01/22 01:00*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/22 01:00*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/01/22 01:00*	*1*

Lab Sample ID: LCS 580-385935/6
Matrix: Water
Analysis Batch: 385935

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	11.7		ug/L		117	20 - 150

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

Lab Sample ID: LCS 580-385935/6
Matrix: Water
Analysis Batch: 385935

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	10.0	12.5		ug/L		125	25 - 150
Bromomethane	10.0	9.89		ug/L		99	36 - 150
Chloroethane	10.0	10.3		ug/L		103	38 - 150
Trichlorofluoromethane	10.0	10.2		ug/L		102	45 - 148
1,1-Dichloroethene	10.0	10.8		ug/L		108	70 - 129
Methylene Chloride	10.0	10.7		ug/L		107	77 - 125
Methyl tert-butyl ether	10.0	11.1		ug/L		111	72 - 120
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	75 - 120
1,1-Dichloroethane	10.0	11.5		ug/L		115	80 - 120
Vinyl chloride	10.0	11.8		ug/L		118	31 - 150
2,2-Dichloropropane	10.0	10.8		ug/L		108	66 - 126
cis-1,2-Dichloroethene	10.0	11.4		ug/L		114	76 - 120
Bromochloromethane	10.0	11.2		ug/L		112	78 - 120
Chloroform	10.0	11.5		ug/L		115	78 - 127
1,1,1-Trichloroethane	10.0	11.0		ug/L		110	74 - 130
Carbon tetrachloride	10.0	10.7		ug/L		107	72 - 129
1,1-Dichloropropene	10.0	11.2		ug/L		112	74 - 120
Benzene	10.0	11.2		ug/L		112	80 - 122
1,2-Dichloroethane	10.0	11.8		ug/L		118	69 - 126
Trichloroethene	10.0	10.6		ug/L		106	80 - 125
1,2-Dichloropropane	10.0	11.5		ug/L		115	80 - 120
Dibromomethane	10.0	11.3		ug/L		113	80 - 120
Dichlorobromomethane	10.0	11.0		ug/L		110	75 - 124
cis-1,3-Dichloropropene	10.0	11.0		ug/L		110	77 - 120
Toluene	10.0	11.8		ug/L		118	80 - 120
trans-1,3-Dichloropropene	10.0	11.0		ug/L		110	76 - 122
1,1,2-Trichloroethane	10.0	11.7		ug/L		117	80 - 121
Tetrachloroethene	10.0	11.8		ug/L		118	76 - 125
1,3-Dichloropropane	10.0	11.8		ug/L		118	79 - 120
Chlorodibromomethane	10.0	11.3		ug/L		113	73 - 125
Ethylene Dibromide	10.0	12.1		ug/L		121	79 - 126
Chlorobenzene	10.0	11.6		ug/L		116	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.2		ug/L		112	79 - 120
Ethylbenzene	10.0	11.3		ug/L		113	80 - 120
m-Xylene & p-Xylene	10.0	11.8		ug/L		118	80 - 120
o-Xylene	10.0	11.8		ug/L		118	80 - 120
Styrene	10.0	11.1		ug/L		111	76 - 122
Bromoform	10.0	10.8		ug/L		108	56 - 139
Isopropylbenzene	10.0	11.3		ug/L		113	80 - 123
Bromobenzene	10.0	11.5		ug/L		115	80 - 120
1,1,2,2-Tetrachloroethane	10.0	11.5		ug/L		115	74 - 124
1,2,3-Trichloropropane	10.0	11.7		ug/L		117	76 - 124
N-Propylbenzene	10.0	11.9		ug/L		119	80 - 122
2-Chlorotoluene	10.0	11.7		ug/L		117	80 - 120
4-Chlorotoluene	10.0	11.5		ug/L		115	73 - 129
tert-Butylbenzene	10.0	11.4		ug/L		114	75 - 123
1,2,4-Trimethylbenzene	10.0	11.6		ug/L		116	80 - 120
sec-Butylbenzene	10.0	11.8		ug/L		118	78 - 122
4-Isopropyltoluene	10.0	12.0		ug/L		120	77 - 126

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

Lab Sample ID: LCS 580-385935/6
Matrix: Water
Analysis Batch: 385935

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	11.2		ug/L		112	77 - 127
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
n-Butylbenzene	10.0	11.9		ug/L		119	57 - 133
1,2-Dichlorobenzene	10.0	11.1		ug/L		111	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	11.1		ug/L		111	65 - 133
1,2,4-Trichlorobenzene	10.0	11.9		ug/L		119	61 - 148
Hexachlorobutadiene	10.0	12.1		ug/L		121	74 - 131
Naphthalene	10.0	9.91		ug/L		99	63 - 150
1,2,3-Trichlorobenzene	10.0	9.95		ug/L		100	65 - 150
1,3,5-Trimethylbenzene	10.0	11.9		ug/L		119	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-385935/7
Matrix: Water
Analysis Batch: 385935

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
Dichlorodifluoromethane	10.0	12.9		ug/L		129	20 - 150	10	33
Chloromethane	10.0	12.8		ug/L		128	25 - 150	2	26
Bromomethane	10.0	10.1		ug/L		101	36 - 150	2	33
Chloroethane	10.0	10.4		ug/L		104	38 - 150	1	28
Trichlorofluoromethane	10.0	10.7		ug/L		107	45 - 148	5	35
1,1-Dichloroethene	10.0	10.9		ug/L		109	70 - 129	1	23
Methylene Chloride	10.0	11.1		ug/L		111	77 - 125	3	18
Methyl tert-butyl ether	10.0	11.5		ug/L		115	72 - 120	4	18
trans-1,2-Dichloroethene	10.0	11.4		ug/L		114	75 - 120	2	21
1,1-Dichloroethane	10.0	11.5		ug/L		115	80 - 120	0	15
Vinyl chloride	10.0	11.7		ug/L		117	31 - 150	1	26
2,2-Dichloropropane	10.0	11.0		ug/L		110	66 - 126	3	22
cis-1,2-Dichloroethene	10.0	11.7		ug/L		117	76 - 120	2	20
Bromochloromethane	10.0	11.9		ug/L		119	78 - 120	6	13
Chloroform	10.0	11.7		ug/L		117	78 - 127	1	14
1,1,1-Trichloroethane	10.0	11.5		ug/L		115	74 - 130	4	19
Carbon tetrachloride	10.0	11.0		ug/L		110	72 - 129	3	19
1,1-Dichloropropene	10.0	11.1		ug/L		111	74 - 120	1	14
Benzene	10.0	11.3		ug/L		113	80 - 122	1	14
1,2-Dichloroethane	10.0	12.2		ug/L		122	69 - 126	3	11
Trichloroethene	10.0	11.3		ug/L		113	80 - 125	6	13
1,2-Dichloropropane	10.0	11.7		ug/L		117	80 - 120	2	14
Dibromomethane	10.0	12.1	*+	ug/L		121	80 - 120	7	11
Dichlorobromomethane	10.0	11.6		ug/L		116	75 - 124	5	13
cis-1,3-Dichloropropene	10.0	11.1		ug/L		111	77 - 120	2	35
Toluene	10.0	11.8		ug/L		118	80 - 120	0	13

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

Lab Sample ID: LCSD 580-385935/7
Matrix: Water
Analysis Batch: 385935

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
trans-1,3-Dichloropropene			10.0	10.9		ug/L		109	76 - 122	1	20
1,1,2-Trichloroethane			10.0	12.4	*+	ug/L		124	80 - 121	6	14
Tetrachloroethene			10.0	11.5		ug/L		115	76 - 125	3	13
1,3-Dichloropropane			10.0	12.2	*+	ug/L		122	79 - 120	3	19
Chlorodibromomethane			10.0	11.7		ug/L		117	73 - 125	3	13
Ethylene Dibromide			10.0	12.5		ug/L		125	79 - 126	3	12
Chlorobenzene			10.0	11.7		ug/L		117	80 - 120	1	10
1,1,1,2-Tetrachloroethane			10.0	11.5		ug/L		115	79 - 120	2	16
Ethylbenzene			10.0	11.2		ug/L		112	80 - 120	2	14
m-Xylene & p-Xylene			10.0	11.9		ug/L		119	80 - 120	1	14
o-Xylene			10.0	11.6		ug/L		116	80 - 120	1	16
Styrene			10.0	11.2		ug/L		112	76 - 122	0	16
Bromoform			10.0	11.4		ug/L		114	56 - 139	5	21
Isopropylbenzene			10.0	11.2		ug/L		112	80 - 123	0	19
Bromobenzene			10.0	11.5		ug/L		115	80 - 120	0	24
1,1,2,2-Tetrachloroethane			10.0	11.6		ug/L		116	74 - 124	0	25
1,2,3-Trichloropropane			10.0	12.4		ug/L		124	76 - 124	5	26
N-Propylbenzene			10.0	11.5		ug/L		115	80 - 122	3	22
2-Chlorotoluene			10.0	11.6		ug/L		116	80 - 120	1	20
4-Chlorotoluene			10.0	11.6		ug/L		116	73 - 129	1	29
tert-Butylbenzene			10.0	11.3		ug/L		113	75 - 123	1	21
1,2,4-Trimethylbenzene			10.0	11.5		ug/L		115	80 - 120	1	16
sec-Butylbenzene			10.0	11.5		ug/L		115	78 - 122	3	15
4-Isopropyltoluene			10.0	11.7		ug/L		117	77 - 126	3	20
1,3-Dichlorobenzene			10.0	11.3		ug/L		113	77 - 127	1	35
1,4-Dichlorobenzene			10.0	11.0		ug/L		110	80 - 120	1	17
n-Butylbenzene			10.0	11.7		ug/L		117	57 - 133	2	14
1,2-Dichlorobenzene			10.0	11.3		ug/L		113	80 - 120	2	15
1,2-Dibromo-3-Chloropropane			10.0	11.6		ug/L		116	65 - 133	5	25
1,2,4-Trichlorobenzene			10.0	12.6		ug/L		126	61 - 148	5	27
Hexachlorobutadiene			10.0	12.5		ug/L		125	74 - 131	3	22
Naphthalene			10.0	10.5		ug/L		105	63 - 150	6	33
1,2,3-Trichlorobenzene			10.0	10.6		ug/L		106	65 - 150	6	33
1,3,5-Trimethylbenzene			10.0	11.8		ug/L		118	80 - 122	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 580-386601/5
Matrix: Water
Analysis Batch: 386601

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.30	ug/L			04/06/22 23:31	1
Trichloroethene	ND		1.0	0.26	ug/L			04/06/22 23:31	1

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

Lab Sample ID: LCS 580-386601/6
Matrix: Water
Analysis Batch: 386601

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon tetrachloride			10.0	10.9		ug/L		109	72 - 129		
Trichloroethene			10.0	10.7		ug/L		107	80 - 125		

Lab Sample ID: LCSD 580-386601/7
Matrix: Water
Analysis Batch: 386601

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
Carbon tetrachloride			10.0	11.3		ug/L		113	72 - 129	4	19
Trichloroethene			10.0	11.2		ug/L		112	80 - 125	5	13

Lab Sample ID: MB 580-386710/5
Matrix: Water
Analysis Batch: 386710

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.425	J	1.0	0.35	ug/L			04/07/22 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*04/07/22 12:17*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*04/07/22 12:17*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*04/07/22 12:17*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*04/07/22 12:17*	*1*

Lab Sample ID: LCS 580-386710/6
Matrix: Water
Analysis Batch: 386710

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
cis-1,2-Dichloroethene			10.0	10.2		ug/L		102	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*89*		*80 - 120*

Lab Sample ID: LCSD 580-386710/7
Matrix: Water
Analysis Batch: 386710

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
cis-1,2-Dichloroethene			10.0	10.1		ug/L		101	76 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: LCSD 580-386710/7
Matrix: Water
Analysis Batch: 386710

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*89*		*80 - 120*

Lab Sample ID: MB 580-385550/3-A
Matrix: Water
Analysis Batch: 385744

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		1500	470	ug/L			03/31/22 04:04	100
1,1-Dichloroethene	ND		100	28	ug/L			03/31/22 04:04	100
Vinyl chloride	ND		100	22	ug/L			03/31/22 04:04	100
Chloroform	ND		100	26	ug/L			03/31/22 04:04	100
Carbon tetrachloride	ND		100	30	ug/L			03/31/22 04:04	100
Benzene	ND		100	24	ug/L			03/31/22 04:04	100
1,2-Dichloroethane	ND		100	42	ug/L			03/31/22 04:04	100
Trichloroethene	ND		100	26	ug/L			03/31/22 04:04	100
Tetrachloroethene	ND		100	41	ug/L			03/31/22 04:04	100
Chlorobenzene	ND		100	44	ug/L			03/31/22 04:04	100

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*03/31/22 04:04*	*100*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/31/22 04:04*	*100*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/31/22 04:04*	*100*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/31/22 04:04*	*100*

Lab Sample ID: LCS 580-385550/4-A
Matrix: Water
Analysis Batch: 385744

Client Sample ID: Lab Control Sample
Prep Type: TCLP

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone	5000	4700		ug/L		94	65 - 137
1,1-Dichloroethene	1000	743		ug/L		74	70 - 129
Vinyl chloride	1000	932		ug/L		93	31 - 150
Chloroform	1000	824		ug/L		82	78 - 127
Carbon tetrachloride	1000	788		ug/L		79	72 - 129
Benzene	1000	926		ug/L		93	80 - 122
1,2-Dichloroethane	1000	1050		ug/L		105	69 - 126
Trichloroethene	1000	1010		ug/L		101	80 - 125
Tetrachloroethene	1000	992		ug/L		99	76 - 125
Chlorobenzene	1000	1030		ug/L		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*

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

Lab Sample ID: LCSD 580-385550/5-A
Matrix: Water
Analysis Batch: 385744

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone			5000	4820		ug/L		96	65 - 137	3	34
1,1-Dichloroethene			1000	789		ug/L		79	70 - 129	6	23
Vinyl chloride			1000	990		ug/L		99	31 - 150	6	26
Chloroform			1000	888		ug/L		89	78 - 127	7	14
Carbon tetrachloride			1000	823		ug/L		82	72 - 129	4	19
Benzene			1000	938		ug/L		94	80 - 122	1	14
1,2-Dichloroethane			1000	940		ug/L		94	69 - 126	11	11
Trichloroethene			1000	965		ug/L		96	80 - 125	5	13
Tetrachloroethene			1000	880		ug/L		88	76 - 125	12	13
Chlorobenzene			1000	936		ug/L		94	80 - 120	9	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-385381/17-F
Matrix: Water
Analysis Batch: 386151

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 385676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0	0.20	ug/L		03/30/22 10:28	04/02/22 23:53	1
2-Methylphenol	ND		3.0	0.25	ug/L		03/30/22 10:28	04/02/22 23:53	1
3 & 4 Methylphenol	ND		3.0	0.50	ug/L		03/30/22 10:28	04/02/22 23:53	1
Hexachloroethane	ND		5.0	0.25	ug/L		03/30/22 10:28	04/02/22 23:53	1
Nitrobenzene	ND		5.0	0.20	ug/L		03/30/22 10:28	04/02/22 23:53	1
Hexachlorobutadiene	ND		5.0	0.30	ug/L		03/30/22 10:28	04/02/22 23:53	1
2,4,6-Trichlorophenol	ND		3.0	0.50	ug/L		03/30/22 10:28	04/02/22 23:53	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		03/30/22 10:28	04/02/22 23:53	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		03/30/22 10:28	04/02/22 23:53	1
Hexachlorobenzene	ND		3.0	0.20	ug/L		03/30/22 10:28	04/02/22 23:53	1
Pentachlorophenol	ND		50	2.6	ug/L		03/30/22 10:28	04/02/22 23:53	1
Pyridine	ND		50	5.3	ug/L		03/30/22 10:28	04/02/22 23:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*73*		*20 - 147*	*03/30/22 10:28*	*04/02/22 23:53*	*1*
Phenol-d5 (Surr)	*65*		*21 - 135*	*03/30/22 10:28*	*04/02/22 23:53*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*28 - 131*	*03/30/22 10:28*	*04/02/22 23:53*	*1*
Nitrobenzene-d5 (Surr)	*87*		*60 - 120*	*03/30/22 10:28*	*04/02/22 23:53*	*1*
2-Fluorobiphenyl	*83*		*63 - 120*	*03/30/22 10:28*	*04/02/22 23:53*	*1*
Terphenyl-d14 (Surr)	*92*		*66 - 120*	*03/30/22 10:28*	*04/02/22 23:53*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-385381/18-F
Matrix: Water
Analysis Batch: 386151

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 385676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	10.0	5.74		ug/L		57	46 - 120
2-Methylphenol	10.0	7.61		ug/L		76	49 - 120
3 & 4 Methylphenol	10.0	6.91		ug/L		69	50 - 124
Hexachloroethane	10.0	5.61		ug/L		56	38 - 120
Nitrobenzene	10.0	6.93		ug/L		69	60 - 130
Hexachlorobutadiene	10.0	5.78		ug/L		58	31 - 120
2,4,6-Trichlorophenol	10.0	8.48		ug/L		85	64 - 121
2,4,5-Trichlorophenol	10.0	8.60		ug/L		86	67 - 120
2,4-Dinitrotoluene	10.0	7.93		ug/L		79	63 - 133
Hexachlorobenzene	10.0	6.86		ug/L		69	60 - 120
Pentachlorophenol	20.0	14.7	J	ug/L		74	39 - 147
Pyridine	20.0	6.59	J	ug/L		33	20 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*71*		*20 - 147*
Phenol-d5 (Surr)	*63*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*52*		*28 - 131*
Nitrobenzene-d5 (Surr)	*82*		*60 - 120*
2-Fluorobiphenyl	*74*		*63 - 120*
Terphenyl-d14 (Surr)	*95*		*66 - 120*

Lab Sample ID: LCSD 580-385381/19-F
Matrix: Water
Analysis Batch: 386151

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 385676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	10.0	5.65		ug/L		56	46 - 120	2	30
2-Methylphenol	10.0	8.20		ug/L		82	49 - 120	7	35
3 & 4 Methylphenol	10.0	7.22		ug/L		72	50 - 124	4	35
Hexachloroethane	10.0	5.42		ug/L		54	38 - 120	3	35
Nitrobenzene	10.0	7.34		ug/L		73	60 - 130	6	31
Hexachlorobutadiene	10.0	5.08		ug/L		51	31 - 120	13	28
2,4,6-Trichlorophenol	10.0	7.62		ug/L		76	64 - 121	11	26
2,4,5-Trichlorophenol	10.0	9.03		ug/L		90	67 - 120	5	26
2,4-Dinitrotoluene	10.0	7.81		ug/L		78	63 - 133	2	23
Hexachlorobenzene	10.0	7.23		ug/L		72	60 - 120	5	23
Pentachlorophenol	20.0	15.7	J	ug/L		78	39 - 147	6	23
Pyridine	20.0	ND		ug/L		24	20 - 120	33	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*73*		*20 - 147*
Phenol-d5 (Surr)	*61*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*69*		*28 - 131*
Nitrobenzene-d5 (Surr)	*76*		*60 - 120*
2-Fluorobiphenyl	*73*		*63 - 120*
Terphenyl-d14 (Surr)	*94*		*66 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-135473-1 MS
Matrix: Water
Analysis Batch: 386151

Client Sample ID: PURGE WATER
Prep Type: TCLP
Prep Batch: 385676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	ND		10.0	5.68		ug/L		57	46 - 120
2-Methylphenol	ND		10.0	7.63		ug/L		76	49 - 120
3 & 4 Methylphenol	ND		10.0	7.56		ug/L		76	50 - 124
Hexachloroethane	ND		10.0	5.19		ug/L		52	38 - 120
Nitrobenzene	ND		10.0	6.90		ug/L		69	60 - 130
Hexachlorobutadiene	ND		10.0	5.43		ug/L		54	31 - 120
2,4,6-Trichlorophenol	ND		10.0	7.54		ug/L		75	64 - 121
2,4,5-Trichlorophenol	ND		10.0	8.22		ug/L		82	67 - 120
2,4-Dinitrotoluene	ND		10.0	8.16		ug/L		82	63 - 133
Hexachlorobenzene	ND		10.0	7.47		ug/L		75	60 - 120
Pentachlorophenol	ND		20.0	12.7	J	ug/L		64	39 - 147
Pyridine	ND	F1	20.0	ND	F1	ug/L		0	20 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*73*		*20 - 147*
Phenol-d5 (Surr)	*70*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*47*		*28 - 131*
Nitrobenzene-d5 (Surr)	*81*		*60 - 120*
2-Fluorobiphenyl	*75*		*63 - 120*
Terphenyl-d14 (Surr)	*101*		*66 - 120*

Lab Sample ID: 180-135473-1 MSD
Matrix: Water
Analysis Batch: 386151

Client Sample ID: PURGE WATER
Prep Type: TCLP
Prep Batch: 385676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		10.0	5.45		ug/L		55	46 - 120	4	30
2-Methylphenol	ND		10.0	8.40		ug/L		84	49 - 120	10	35
3 & 4 Methylphenol	ND		10.0	7.25		ug/L		72	50 - 124	4	35
Hexachloroethane	ND		10.0	4.34	J	ug/L		43	38 - 120	18	35
Nitrobenzene	ND		10.0	7.46		ug/L		75	60 - 130	8	31
Hexachlorobutadiene	ND		10.0	4.49	J	ug/L		45	31 - 120	19	28
2,4,6-Trichlorophenol	ND		10.0	8.55		ug/L		85	64 - 121	13	26
2,4,5-Trichlorophenol	ND		10.0	8.74		ug/L		87	67 - 120	6	26
2,4-Dinitrotoluene	ND		10.0	8.86		ug/L		89	63 - 133	8	23
Hexachlorobenzene	ND		10.0	6.11		ug/L		61	60 - 120	20	23
Pentachlorophenol	ND		20.0	13.9	J	ug/L		69	39 - 147	9	23
Pyridine	ND	F1	20.0	9.56	J	ug/L		48	20 - 120	NC	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*75*		*20 - 147*
Phenol-d5 (Surr)	*69*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*69*		*28 - 131*
Nitrobenzene-d5 (Surr)	*68*		*60 - 120*
2-Fluorobiphenyl	*73*		*63 - 120*
Terphenyl-d14 (Surr)	*91*		*66 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-385381/17-C
Matrix: Water
Analysis Batch: 385714

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 385563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		03/29/22 13:39	03/30/22 11:17	1
Barium	ND		0.020	0.0010	mg/L		03/29/22 13:39	03/30/22 11:17	1
Cadmium	ND		0.020	0.00090	mg/L		03/29/22 13:39	03/30/22 11:17	1
Chromium	ND		0.025	0.0027	mg/L		03/29/22 13:39	03/30/22 11:17	1
Copper	ND		0.060	0.0055	mg/L		03/29/22 13:39	03/30/22 11:17	1
Lead	ND		0.030	0.0027	mg/L		03/29/22 13:39	03/30/22 11:17	1
Molybdenum	ND		0.040	0.0012	mg/L		03/29/22 13:39	03/30/22 11:17	1
Nickel	0.00520	J	0.020	0.0010	mg/L		03/29/22 13:39	03/30/22 11:17	1
Selenium	ND		0.10	0.0087	mg/L		03/29/22 13:39	03/30/22 11:17	1
Silver	ND		0.050	0.0085	mg/L		03/29/22 13:39	03/30/22 11:17	1
Zinc	ND		0.040	0.0093	mg/L		03/29/22 13:39	03/30/22 11:17	1

Lab Sample ID: MB 580-385381/20-C
Matrix: Water
Analysis Batch: 385714

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 385563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		03/29/22 13:39	03/30/22 11:20	1
Barium	ND		0.020	0.0010	mg/L		03/29/22 13:39	03/30/22 11:20	1
Cadmium	ND		0.020	0.00090	mg/L		03/29/22 13:39	03/30/22 11:20	1
Chromium	ND		0.025	0.0027	mg/L		03/29/22 13:39	03/30/22 11:20	1
Copper	ND		0.060	0.0055	mg/L		03/29/22 13:39	03/30/22 11:20	1
Lead	ND		0.030	0.0027	mg/L		03/29/22 13:39	03/30/22 11:20	1
Molybdenum	ND		0.040	0.0012	mg/L		03/29/22 13:39	03/30/22 11:20	1
Nickel	ND		0.020	0.0010	mg/L		03/29/22 13:39	03/30/22 11:20	1
Selenium	ND		0.10	0.0087	mg/L		03/29/22 13:39	03/30/22 11:20	1
Silver	ND		0.050	0.0085	mg/L		03/29/22 13:39	03/30/22 11:20	1
Zinc	ND		0.040	0.0093	mg/L		03/29/22 13:39	03/30/22 11:20	1

Lab Sample ID: LCS 580-385381/18-C
Matrix: Water
Analysis Batch: 385714

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 385563

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			1.00	1.06		mg/L		106	80 - 120		
Barium			1.00	1.02		mg/L		102	80 - 120		
Cadmium			1.00	1.07		mg/L		107	80 - 120		
Chromium			1.00	1.04		mg/L		104	80 - 120		
Copper			1.00	1.08		mg/L		108	80 - 120		
Lead			1.00	1.05		mg/L		105	80 - 120		
Molybdenum			1.00	1.05		mg/L		105	80 - 120		
Nickel			1.00	1.08		mg/L		108	80 - 120		
Selenium			1.00	1.09		mg/L		109	80 - 120		
Silver			1.00	1.01		mg/L		101	80 - 120		
Zinc			1.00	1.16		mg/L		116	80 - 120		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-385381/19-C
Matrix: Water
Analysis Batch: 385714

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 385563

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			1.00	1.06		mg/L		106	80 - 120	0	20
Barium			1.00	0.995		mg/L		100	80 - 120	2	20
Cadmium			1.00	1.08		mg/L		108	80 - 120	1	20
Chromium			1.00	1.05		mg/L		105	80 - 120	0	20
Copper			1.00	1.02		mg/L		102	80 - 120	5	20
Lead			1.00	1.06		mg/L		106	80 - 120	1	20
Molybdenum			1.00	1.06		mg/L		106	80 - 120	0	20
Nickel			1.00	1.08		mg/L		108	80 - 120	1	20
Selenium			1.00	1.10		mg/L		110	80 - 120	1	20
Silver			1.00	0.997		mg/L		100	80 - 120	1	20
Zinc			1.00	1.16		mg/L		116	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-385381/17-B
Matrix: Water
Analysis Batch: 385710

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 385557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		03/29/22 12:26	03/29/22 16:57	1

Lab Sample ID: MB 580-385381/20-B
Matrix: Water
Analysis Batch: 385710

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 385557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		03/29/22 12:26	03/29/22 16:59	1

Lab Sample ID: LCS 580-385381/18-B
Matrix: Water
Analysis Batch: 385710

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 385557

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.0200	0.0203		mg/L		101	80 - 120		

Lab Sample ID: LCSD 580-385381/19-B
Matrix: Water
Analysis Batch: 385710

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 385557

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.0200	0.0207		mg/L		104	80 - 120	2	20

GC/MS VOA

Analysis Batch: 385515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-2	MW3	Total/NA	Water	8260D	
180-135473-3	MW4	Total/NA	Water	8260D	
180-135473-4	MW5	Total/NA	Water	8260D	
180-135473-35	TRIP BLANK	Total/NA	Water	8260D	
MB 580-385515/7	Method Blank	Total/NA	Water	8260D	
LCS 580-385515/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-385515/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Leach Batch: 385550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	1311	
MB 580-385550/3-A	Method Blank	TCLP	Water	1311	
LCS 580-385550/4-A	Lab Control Sample	TCLP	Water	1311	
LCSD 580-385550/5-A	Lab Control Sample Dup	TCLP	Water	1311	

Analysis Batch: 385641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-7	MW8	Total/NA	Water	8260D	
180-135473-8	MW9	Total/NA	Water	8260D	
180-135473-9	MW10	Total/NA	Water	8260D	
180-135473-10	MW11	Total/NA	Water	8260D	
180-135473-12	MW14	Total/NA	Water	8260D	
MB 580-385641/18	Method Blank	Total/NA	Water	8260D	
LCS 580-385641/16	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-385641/17	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 385667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-16	MW18	Total/NA	Water	8260D	
180-135473-17	MW19	Total/NA	Water	8260D	
180-135473-18	MW20	Total/NA	Water	8260D	
180-135473-20	MW23	Total/NA	Water	8260D	
180-135473-21	MW24	Total/NA	Water	8260D	
180-135473-22	MW25	Total/NA	Water	8260D	
180-135473-23	MW26	Total/NA	Water	8260D	
180-135473-24	MW27	Total/NA	Water	8260D	
180-135473-25	MW28	Total/NA	Water	8260D	
MB 580-385667/7	Method Blank	Total/NA	Water	8260D	
LCS 580-385667/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-385667/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 385744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	8260D	385550
MB 580-385550/3-A	Method Blank	TCLP	Water	8260D	385550
LCS 580-385550/4-A	Lab Control Sample	TCLP	Water	8260D	385550
LCSD 580-385550/5-A	Lab Control Sample Dup	TCLP	Water	8260D	385550

Analysis Batch: 385858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-5	MW6	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 385858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-6	MW7	Total/NA	Water	8260D	
180-135473-14	MW16	Total/NA	Water	8260D	
180-135473-19	MW22	Total/NA	Water	8260D	
180-135473-27	MW30	Total/NA	Water	8260D	
180-135473-29	MW100	Total/NA	Water	8260D	
180-135473-30	MW101	Total/NA	Water	8260D	
180-135473-31	MW102	Total/NA	Water	8260D	
180-135473-32	MW103	Total/NA	Water	8260D	
180-135473-34	DUP2	Total/NA	Water	8260D	
MB 580-385858/7	Method Blank	Total/NA	Water	8260D	
LCS 580-385858/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-385858/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 385877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-2 - RA	MW3	Total/NA	Water	8260D	
MB 580-385877/17	Method Blank	Total/NA	Water	8260D	
LCS 580-385877/18	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-385877/19	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 385935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-7 - RA	MW8	Total/NA	Water	8260D	
180-135473-8 - RA	MW9	Total/NA	Water	8260D	
180-135473-9 - RA	MW10	Total/NA	Water	8260D	
180-135473-10 - RA	MW11	Total/NA	Water	8260D	
180-135473-11	MW13	Total/NA	Water	8260D	
180-135473-12	MW14	Total/NA	Water	8260D	
180-135473-13	MW15	Total/NA	Water	8260D	
180-135473-15	MW17	Total/NA	Water	8260D	
180-135473-16 - RA	MW18	Total/NA	Water	8260D	
180-135473-18 - DL	MW20	Total/NA	Water	8260D	
180-135473-20 - RA	MW23	Total/NA	Water	8260D	
180-135473-21 - DL	MW24	Total/NA	Water	8260D	
180-135473-22 - RA	MW25	Total/NA	Water	8260D	
180-135473-25 - RA	MW28	Total/NA	Water	8260D	
180-135473-26	MW29	Total/NA	Water	8260D	
180-135473-28	MW31	Total/NA	Water	8260D	
180-135473-33	DUP1	Total/NA	Water	8260D	
MB 580-385935/5	Method Blank	Total/NA	Water	8260D	
LCS 580-385935/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-385935/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 386601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-19 - RA	MW22	Total/NA	Water	8260D	
180-135473-29 - RA	MW100	Total/NA	Water	8260D	
180-135473-30 - RA	MW101	Total/NA	Water	8260D	
180-135473-31 - RA	MW102	Total/NA	Water	8260D	
180-135473-34 - RA	DUP2	Total/NA	Water	8260D	
MB 580-386601/5	Method Blank	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 386601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 580-386601/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-386601/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 386710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-27 - RA	MW30	Total/NA	Water	8260D	
MB 580-386710/5	Method Blank	Total/NA	Water	8260D	
LCS 580-386710/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-386710/7	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Leach Batch: 385381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	1311	
MB 580-385381/17-F	Method Blank	TCLP	Water	1311	
LCS 580-385381/18-F	Lab Control Sample	TCLP	Water	1311	
LCSD 580-385381/19-F	Lab Control Sample Dup	TCLP	Water	1311	
180-135473-1 MS	PURGE WATER	TCLP	Water	1311	
180-135473-1 MSD	PURGE WATER	TCLP	Water	1311	

Prep Batch: 385676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	3510C	385381
MB 580-385381/17-F	Method Blank	TCLP	Water	3510C	385381
LCS 580-385381/18-F	Lab Control Sample	TCLP	Water	3510C	385381
LCSD 580-385381/19-F	Lab Control Sample Dup	TCLP	Water	3510C	385381
180-135473-1 MS	PURGE WATER	TCLP	Water	3510C	385381
180-135473-1 MSD	PURGE WATER	TCLP	Water	3510C	385381

Analysis Batch: 386151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	8270E	385676
MB 580-385381/17-F	Method Blank	TCLP	Water	8270E	385676
LCS 580-385381/18-F	Lab Control Sample	TCLP	Water	8270E	385676
LCSD 580-385381/19-F	Lab Control Sample Dup	TCLP	Water	8270E	385676
180-135473-1 MS	PURGE WATER	TCLP	Water	8270E	385676
180-135473-1 MSD	PURGE WATER	TCLP	Water	8270E	385676

Metals

Leach Batch: 385381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	1311	
MB 580-385381/17-B	Method Blank	TCLP	Water	1311	
MB 580-385381/17-C	Method Blank	TCLP	Water	1311	
MB 580-385381/20-B	Method Blank	TCLP	Water	1311	
MB 580-385381/20-C	Method Blank	TCLP	Water	1311	
LCS 580-385381/18-B	Lab Control Sample	TCLP	Water	1311	
LCS 580-385381/18-C	Lab Control Sample	TCLP	Water	1311	
LCSD 580-385381/19-B	Lab Control Sample Dup	TCLP	Water	1311	
LCSD 580-385381/19-C	Lab Control Sample Dup	TCLP	Water	1311	

QC Association Summary

Client: WE2 Support Services
Job ID: 180-135473-1
Project/Site: Dept of Energy- NETL - Albany, OR

Metals

Prep Batch: 385557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	7470A	385381
MB 580-385381/17-B	Method Blank	TCLP	Water	7470A	385381
MB 580-385381/20-B	Method Blank	TCLP	Water	7470A	385381
LCS 580-385381/18-B	Lab Control Sample	TCLP	Water	7470A	385381
LCSD 580-385381/19-B	Lab Control Sample Dup	TCLP	Water	7470A	385381

Prep Batch: 385563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	3010A	385381
MB 580-385381/17-C	Method Blank	TCLP	Water	3010A	385381
MB 580-385381/20-C	Method Blank	TCLP	Water	3010A	385381
LCS 580-385381/18-C	Lab Control Sample	TCLP	Water	3010A	385381
LCSD 580-385381/19-C	Lab Control Sample Dup	TCLP	Water	3010A	385381

Analysis Batch: 385710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	7470A	385557
MB 580-385381/17-B	Method Blank	TCLP	Water	7470A	385557
MB 580-385381/20-B	Method Blank	TCLP	Water	7470A	385557
LCS 580-385381/18-B	Lab Control Sample	TCLP	Water	7470A	385557
LCSD 580-385381/19-B	Lab Control Sample Dup	TCLP	Water	7470A	385557

Analysis Batch: 385714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-135473-1	PURGE WATER	TCLP	Water	6010D	385563
MB 580-385381/17-C	Method Blank	TCLP	Water	6010D	385563
MB 580-385381/20-C	Method Blank	TCLP	Water	6010D	385563
LCS 580-385381/18-C	Lab Control Sample	TCLP	Water	6010D	385563
LCSD 580-385381/19-C	Lab Control Sample Dup	TCLP	Water	6010D	385563

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-79191-15041.1
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin:	Page: Page 1 of 4
Company: WE2 Support Services	PWSID:			Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			
City: Albany	TAT Requested (days): 2 weeks			
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: Albany	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, Z - other (specify)

Other:

Special Instructions/Note:

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 Halogenated Organics	7470A TCLP RCRA Mercury	8260D - Standard List Volatile Organics	200.7_CNA, 200.8_CNA, 245.1	Total Number of containers
			Preservation Code:				A	N	N	N	
Purge Water	3/18/22	1000	G	Water				1	3	1	
MW3	3/15/22	1257					3				
MW4	3/15/22	1413									
MW5	3/15/22	1811									
MW6	3/17/22	1345									
MW7	3/17/22	1036									
MW8	3/16/22	1531									
MW9	3/16/22	1422									
MW10	3/16/22	1101									
MW11	3/16/22	1751									
MW13	3/15/22	1655									

180-135473 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: 3/18/22 1240	Company	Received by:	Date/Time: 3/18/22 1240	Company EFGS
Relinquished by:	Date/Time: 3/21/22 1200	Company EFGS	Received by:	Date/Time: 3/22/22 0945	Company EFGS
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: 3.0

IR = 2.1 / 1.9

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-79191-15041.1
Client Contact: Jason Somes	Phone: (253) 432-6586	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin:	Page: Page 2 of 4
Company: WE2 Support Services	PWSID:			Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			
City: Albany	TAT Requested (days): 2 weeks			
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: Albany	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	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		
MW14	3/16/22	1244	G	Water			3		
MW15	3/15/22	1620							
MW16	3/17/22	1104							
MW17	3/15/22	1338							
MW18	3/16/22	1631							
MW19	3/16/22	1341							
MW20	3/16/22	1031							
MW22	3/17/22	1245							
MW23	3/16/22	0915							
MW24	3/16/22	1821							
MW25	3/16/22	1505							

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: 3/18/22 1240	Company	Received by:	Date/Time: 3/18/22 1240	Company ERES
Relinquished by:	Date/Time: 3/21/22 1700	Company ERES	Received by:	Date/Time: 3/22/22 0945	Company
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:

IR8 = -2.1 / -1.9

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-79191-15041.1
Client Contact: Jason Somes	Phone: (253) 432-6586	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: WE2 Support Services	PWSID:	Analysis Requested		Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			Preservation Codes:
City: Albany	TAT Requested (days): 2 weeks			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, Z - other (specify)
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 (Ww=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		
MW26	3/16/22	1204	G	Water			3		
MW27	3/15/22	1539							
MW28	3/16/22	1705							
MW29	3/15/22	1449							
MW30	3/17/22	1417							
MW31	3/15/22	1841							
MW100	3/17/22	1636							
MW101	3/17/22	1609							
MW102	3/17/22	1706							
MW103	3/17/22	1745							
Dup 1	3/15/22	1257							

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		Date/Time	Company
Relinquished by:	3/18/22 1240		Received by:	3/18/22 1240	EFGS
Relinquished by:	3/21/22 1200	EFGS	Received by:	3/22/22 0945	EFGS
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:

IR8 = -2.1 / -0.9

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-79191-15041.1
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin:	Page: Page 4 of 4
Company: WE2 Support Services	PWSID:			Job #:

Address: 1450 Queen Avenue SW	Due Date Requested:		
City: Albany	TAT Requested (days): 2 weeks		
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	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	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)	A8260D-Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
Dup 2	3/17/22	1708	G	water			3		
Trip Blank	—	—	↓	↓			8		
									IR8=2.1 / 1.9

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		Date/Time	Company
Relinquished by:	3/18/22 1940		Received by:	3/18/22 1240	EFES
Relinquished by:	3/21/22 1700	EFES	Received by:	3/22/22 0945	EFES
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: 180-135473-1

Login Number: 135473
List Number: 2
Creator: Vallelunga, Diana L

List Source: Eurofins Seattle
List Creation: 03/22/22 05:14 PM

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C. Groundwater Analytical Results

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 44
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	3/18/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 UH	0.41 U	**0.52 J**
MW-3DUP	MW-3	3/18/22	0.18 UH	**0.43 JHR**	0.52 UH	0.24 UH	**0.37 JHR**	**0.33 JHR**	**0.43 JHR**	0.43 UH	0.41 UH	0.33 UH
MW-4	MW-4	3/15/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-5	MW-5	3/15/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-6	MW-6	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-7	MW-7	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-8	MW-8	3/16/22	0.18 UH	0.39 U	0.52 U	0.24 U	0.22 U	**0.34 JHR**	0.29 U	0.43 U	0.41 U	0.33 UH
MW-9	MW-9	3/16/22	0.18 UH	0.39 U	0.52 U	0.24 U	0.22 U	**0.33 JHR**	0.29 U	0.43 U	0.41 U	0.33 UH
MW-10	MW-10	3/16/22	0.18 UH	0.39 U	0.52 U	0.24 U	0.22 U	**0.33 JHR**	0.29 U	0.43 U	0.41 U	0.33 UH
MW-11	MW-11	3/16/22	0.18 UH	0.39 U	0.52 U	0.24 U	0.22 U	**0.33 JHR**	0.29 U	0.43 U	0.41 U	0.33 UH
MW-13	MW-13	3/15/22	0.18 UH	**0.43 JHR**	0.52 UH	0.24 UH	**0.37 JHR**	**0.33 JHR**	**0.43 JHR**	0.43 UH	0.41 UH	0.33 UH
MW-14	MW-14	3/16/22	0.18 UH	0.39 U	0.52 U	0.24 U	0.22 U	**0.33 JHR**	0.29 U	0.43U	0.41 U	0.33 UH
MW-15	MW-15	3/15/22	0.18 UH	**0.43 JHR**	0.52 UH	0.24 UH	**0.37 JHR**	**0.33 JHR**	**0.43 JHR**	0.43 UH	0.41 UH	0.33 UH
MW-16	MW-16	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43U	0.41 U	0.33 U
MW-17	MW-17	3/15/22	0.18 UH	**0.43 JHR**	0.52 UH	0.24 UH	**0.37 JHR**	**0.33 JHR**	**0.43 JHR**	0.43 UH	0.41 UH	0.33 UH
MW-18	MW-18	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-19	MW-19	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-20	MW-20	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-22	MW-22	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-23	MW-23	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-24	MW-24	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-25	MW-25	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-26	MW-26	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-27	MW-27	3/15/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-28	MW-28	3/16/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-29	MW-29	3/15/22	0.18 UH	**0.43 JHR**	0.52 UH	0.24 UH	**0.37 JHR**	**0.33 JHR**	**0.43 JHR**	0.43 UH	0.41 UH	0.33 UH
MW-30	MW-30	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-31	MW-31	3/15/22	0.18 UH	**0.43 JHR**	0.52 UH	0.24 UH	**0.38 JHR**	**0.33 JHR**	**0.43 JHR**	0.43 UH	0.41 UH	0.33 UH
MW-100	MW-100	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-101	MW-101	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-102	MW-102	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-102 DUP	MW-102	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-103	MW-103	3/17/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U

Notes:
Results reported in micrograms per liter (µg/L)
B= Compound was found in the blank and sample
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
J = If detection is above the Reporting Limit, there is a QC problem encountered in data validation
E = Result exceeded calibration range.
H = Sample was analyzed past 14 day holding time
R = Data is unusable
Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 44
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	Bromochloromethane	Bromoform	Bromomethane	Carbon tetrachloride
MW-3	MW-3	3/18/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-3DUP	MW-3	3/18/22	0.61 UH	0.57 UH	0.46 UH	0.42 UH	**0.41 JHR**	0.55 UH	0.48 UH	0.35 UH	0.46 UH	**0.47 JHR**	0.51 UH	0.38 UH	0.28 UH	**0.27 JH**	0.43 UH	**0.42 JHR**	0.51 UH	**0.59 JHR**	**0.48 JHR**
MW-4	MW-4	3/15/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30U
MW-5	MW-5	3/15/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-6	MW-6	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-7	MW-7	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-8	MW-8	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-9	MW-9	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-10	MW-10	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-11	MW-11	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-13	MW-13	3/15/22	0.61 UH	0.57 UH	0.46 UH	0.42 UH	**0.41 JHR**	0.55 UH	0.48 UH	0.35 UH	0.46 UH	**0.47 JHR**	0.51 UH	0.38 UH	0.28 UH	0.24 UH	0.43 UH	**0.42 JHR**	0.51 UH	**0.60 JHR**	**0.48 JHR**
MW-14	MW-14	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30U
MW-15	MW-15	3/15/22	0.61 UH	0.57 UH	0.46 UH	0.42 UH	**0.41 JHR**	0.55 UH	0.48 UH	0.35 UH	0.46 UH	**0.46 JHR**	0.51 UH	0.38 UH	0.28 UH	**0.29 JH**	0.43 UH	**0.42 JHR**	0.51 UH	**0.59 JHR**	**3.5 H**
MW-16	MW-16	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-17	MW-17	3/15/22	0.61 UH	0.57 UH	0.46 UH	0.42 UH	**0.43 JHR**	0.55 UH	0.48 UH	0.35 UH	0.46 UH	**0.46 JHR**	0.51 UH	0.38 UH	0.28 UH	**0.28 JH**	0.43 UH	**0.42 JHR**	0.51 UH	**0.60 JHR**	**0.53 JHR**
MW-18	MW-18	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	**23 H**
MW-19	MW-19	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-20	MW-20	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-22	MW-22	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	**13 H**
MW-23	MW-23	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	**2.0 H**
MW-24	MW-24	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	**140 H**
MW-25	MW-25	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	**0.50 JH**
MW-26	MW-26	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-27	MW-27	3/15/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 UH	0.24 UH	0.43 UH	0.29 UH	0.51 UH	0.21 UH	**120 HE**
MW-28	MW-28	3/16/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-29	MW-29	3/15/22	0.61 UH	0.57 UH	0.46 UH	0.42 UH	**0.41 JHR**	0.55 UH	0.48 UH	0.35 UH	0.46 UH	**0.47 JHR**	0.51 UH	0.38 UH	0.28 UH	**0.27 JH**	0.43 UH	**0.42 JHR**	0.51 UH	**0.59 JHR**	**0.47 JHR**
MW-30	MW-30	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-31	MW-31	3/15/22	0.61 UH	0.57 UH	0.46 UH	0.42 UH	**0.42 JHR**	0.55 UH	0.48 UH	0.35 UH	0.46 UH	**0.47 JHR**	0.51 UH	0.38 UH	0.28 UH	**0.27 JH**	0.43 UH	**0.42 JHR**	0.51 UH	**0.59 JHR**	**0.48 JHR**
MW-100	MW-100	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-101	MW-101	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-102	MW-102	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-102 DUP	MW-102	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U
MW-103	MW-103	3/17/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.29 U	0.51 U	0.21 U	0.30 U

Notes:
Results reported in micrograms per liter (µg/L)
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U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
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H = Sample was analyzed past 14 day holding time
R = Data is unusable
Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 44
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
MW-3	MW-3	3/18/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-3DUP	MW-3	3/18/22	0.44 UH	0.43 UH	**0.58 JHR**	**0.48 JHR**	0.28 UH	**0.50 JHR**	**0.49 JHR**
MW-4	MW-4	3/15/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-5	MW-5	3/15/22	0.44 U	0.43 U	0.35 U	**1.1**	0.28 U	0.35 U	0.42 U
MW-6	MW-6	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-7	MW-7	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-8	MW-8	3/16/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-9	MW-9	3/16/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-10	MW-10	3/16/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-11	MW-11	3/16/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-13	MW-13	3/15/22	0.44 UH	0.43 UH	**0.58 JHR**	**0.39 JHR**	0.28 UH	**0.43 JHR**	**0.49 JHR**
MW-14	MW-14	3/16/22	0.44 U	0.43 U	0.35 U	**4.7**	0.28 U	0.35 U	0.42 U
MW-15	MW-15	3/15/22	0.44 UH	0.43 UH	**0.58 JHR**	**1.2 H**	0.28 UH	**0.46 JHR**	**0.51 JHR**
MW-16	MW-16	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-17	MW-17	3/15/22	0.44 UH	0.43 UH	**0.60 JHR**	**0.58 JHR**	0.28 UH	**0.82 JHR**	**0.49 JHR**
MW-18	MW-18	3/16/22	0.44 U	0.43 U	0.35 U	**3.7 H**	0.28 U	0.35 U	0.42 U
MW-19	MW-19	3/16/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-20	MW-20	3/16/22	0.44 U	0.43 U	0.35 U	**190 E**	0.28 U	**0.57J**	0.42 U
MW-22	MW-22	3/17/22	0.44 U	0.43 U	0.35 U	**3.3**	0.28 U	**1.7**	0.42 U
MW-23	MW-23	3/16/22	0.44 U	0.43 U	0.35 U	**4.6 H**	0.28 U	0.35 U	0.42 U
MW-24	MW-24	3/16/22	0.44 U	0.43 U	0.35 U	**27 H**	0.28 U	0.35 U	0.42 U
MW-25	MW-25	3/16/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-26	MW-26	3/16/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-27	MW-27	3/15/22	0.44 UH	0.43 UH	0.35 UH	**19 H**	0.28 UH	0.35 UH	0.42 UH
MW-28	MW-28	3/16/22	0.44 U	0.43 U	0.35 U	**1.2 H**	0.28 U	0.35 U	0.42 U
MW-29	MW-29	3/15/22	0.44 UH	0.43 UH	**0.58 JHR**	**0.39 JHR**	0.28 UH	**0.43 JHR**	**0.49 JHR**
MW-30	MW-30	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	**5.5**	0.42 U
MW-31	MW-31	3/15/22	0.44 UH	0.43 UH	**0.58 JHR**	**0.39 JHR**	0.28 UH	**0.42 JHR**	**0.49 JHR**
MW-100	MW-100	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	**0.46 J**	0.42 U
MW-101	MW-101	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-102	MW-102	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-102 DUP	MW-102	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-103	MW-103	3/17/22	0.44 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U

Notes:
Results reported in micrograms per liter (µg/L)
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Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 44
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	3/18/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	**0.96 J**	0.44 U
MW-3DUP	MW-3	3/18/22	**0.40 JHR**	**0.39 JHR**	0.53 UH	0.50 UH	0.40 UH	0.79 UH	0.44 UH	0.53 UH	**0.49 JHR**	1.4 UH	0.93 UH	0.44 UH
MW-4	MW-4	3/15/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-5	MW-5	3/15/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-6	MW-6	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-7	MW-7	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-8	MW-8	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 UH	0.44 U	0.53 U	0.44 U	1.4 UH	0.93 U	0.44 U
MW-9	MW-9	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 UH	0.44 U	0.53 U	0.44 U	1.4 UH	0.93 U	0.44 U
MW-10	MW-10	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 UH	0.44 U	0.53 U	0.44 U	1.4 UH	0.93 U	0.44 U
MW-11	MW-11	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 UH	0.44 U	0.53 U	0.44 U	1.4 UH	0.93 U	0.44 U
MW-13	MW-13	3/15/22	**0.40 JHR**	**0.40 JHR**	0.53 UH	0.50 UH	0.40 UH	0.79 UH	0.44 UH	0.53 UH	**0.49 JHR**	1.4 UH	0.93 UH	0.44 UH
MW-14	MW-14	3/16/22	0.34 U	**0.36 J**	0.53 U	0.50 U	0.40 U	0.79 UH	0.44 U	0.53 U	0.44 U	1.4 UH	0.93 U	0.44 U
MW-15	MW-15	3/15/22	**0.39 JHR**	**0.40 JHR**	0.53 UH	0.50 UH	0.40 UH	0.79 UH	0.44 UH	0.53 UH	**0.49 JHR**	1.4 UH	0.93 UH	0.44 UH
MW-16	MW-16	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-17	MW-17	3/15/22	**0.39 JHR**	**0.40 JHR**	0.53 UH	0.50 UH	0.40 UH	0.79 UH	0.44 UH	0.53 UH	**0.49 JHR**	1.4 UH	0.93 UH	0.44 UH
MW-18	MW-18	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-19	MW-19	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-20	MW-20	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-22	MW-22	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-23	MW-23	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-24	MW-24	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-25	MW-25	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-26	MW-26	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-27	MW-27	3/15/22	0.34 UH	0.29 UH	0.53 UH	0.50 UH	0.40 UH	0.79 UH	0.44 UH	0.53 UH	0.44 UH	1.4 UH	0.93 UH	**2.8 H**
MW-28	MW-28	3/16/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-29	MW-29	3/15/22	**0.39 JHR**	**0.39 JHR**	0.53 UH	0.50 UH	0.40 UH	0.79 UH	0.44 UH	0.53 UH	**0.49 JHR**	1.4 UH	0.93 UH	0.44 UH
MW-30	MW-30	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-31	MW-31	3/15/22	**0.39 JHR**	**0.39 JHR**	0.53 UH	0.50 UH	0.40 UH	0.79 UH	0.44 UH	0.53 UH	**0.49 JHR**	1.4 UH	0.93 UH	0.44 UH
MW-100	MW-100	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-101	MW-101	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-102	MW-102	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-102 DUP	MW-102	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-103	MW-103	3/17/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U

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Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 44
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	3/18/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-3DUP	MW-3	3/18/22	0.50 UH	0.39 UH	0.49 UH	**0.60 JHRB**	0.58 UH	**0.47 JHR**	0.39 UH	0.39 UH	**0.48 JHR**	**0.52 JHR**	**0.64 JHR**	**0.40 JHR**
MW-4	MW-4	3/15/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-5	MW-5	3/15/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-6	MW-6	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-7	MW-7	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-8	MW-8	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-9	MW-9	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-10	MW-10	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-11	MW-11	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-13	MW-13	3/15/22	0.50 UH	0.39 UH	0.49 UH	0.53 UH	0.58 UH	**0.44 JHR**	**0.47 JHR**	**0.42 JHR**	**0.49 JHR**	**0.44 JHR**	**0.64 JHR**	**0.40 JHR**
MW-14	MW-14	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-15	MW-15	3/15/22	0.50 UH	0.39 UH	0.49 UH	**0.59 JHRB**	0.58 UH	**0.43 JHR**	**0.48 JHRB**	**0.42 JHR**	**0.42 JHR**	**14 H**	**0.64 JHR**	**0.40 JHR**
MW-16	MW-16	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-17	MW-17	3/15/22	0.50 UH	0.39 UH	0.49 UH	0.53 UH	0.58 UH	**0.44 JHR**	**0.43 JHRB**	**0.43 JHR**	**0.48 JHR**	**8.3 H**	**0.64 JHR**	**0.41 JHR**
MW-18	MW-18	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**3.0 H**	0.39 U	0.39 U	0.41 U	**36 H**	0.36 U	0.22 U
MW-19	MW-19	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-20	MW-20	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**13**	0.39 U	0.39 U	0.41 U	**260 E**	0.36 U	0.22 U
MW-22	MW-22	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.93 J	**0.85 J**	0.39 U	0.39 U	0.41 U	**5.5 H**	0.36 U	0.22 U
MW-23	MW-23	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**1.5 H**	0.36 U	0.22 U
MW-24	MW-24	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**8.5 JH**	0.39 U	0.39 U	0.41 U	**69 H**	0.36 U	0.22 U
MW-25	MW-25	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-26	MW-26	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-27	MW-27	3/15/22	0.50 UH	0.39 UH	0.49 UH	0.53 UHH	0.58 UH	0.41 UH	0.39 UH	0.39 UH	0.41 UH	0.26 UH	0.36 UH	0.22 UH
MW-28	MW-28	3/16/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U
MW-29	MW-29	3/15/22	0.50 UH	0.39 UH	0.49 UH	**0.60 JHRB**	0.58 UH	**0.41 JHR**	0.39 UH	**0.42 JHR**	**0.49 JHR**	**0.45 JHR**	**0.64 JHR**	**0.40 JHR**
MW-30	MW-30	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	**0.47 J**	0.41 U	0.26 U	0.36 U	0.22 U
MW-31	MW-31	3/15/22	0.50 UH	0.39 UH	0.49 UH	**0.60 JHRB**	0.58 UH	**0.41 JHR**	0.39 UH	**0.42 JHR**	**0.48 JHR**	**0.42 JHR**	**0.64 JHR**	**0.40 JHR**
MW-100	MW-100	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**6.7 H**	0.36 U	0.22 U
MW-101	MW-101	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**2.2 H**	0.36 U	0.22 U
MW-102	MW-102	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**4.1 H**	0.36 U	0.22 U
MW-102 DUP	MW-102	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**4.0 H**	0.36 U	0.22 U
MW-103	MW-103	3/17/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U	0.36 U	0.22 U

Notes:
Results reported in micrograms per liter (µg/L)
B= Compound was found in the blank and sample
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
J = If detection is above the Reporting Limit, there is a QC problem encountered i
E = Result exceeded calibration range.
H = Sample was analyzed past 14 day holding time
R = Data is unusable
Bold indicates analyte was detected above the Method Detection Limit

APPENDIX D. Data Validation

Data Review

The data quality review of the thirty-one primary groundwater samples and two field duplicate groundwater samples collected between March 15 – 17, 2022 at the U.S. Department of Energy (DOE) National Technology Laboratory (NETL) in Albany, Oregon has been completed. All samples were submitted to Eurofins TestAmerica (ETA) Laboratories, Inc. of Tacoma, Washington where they were analyzed for volatile organic compounds (VOCs) by EPA Method 8260C

The review included the analytical data presented in ETA report 180-126312-1. The data were reviewed based on *National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014 and Laboratory quality control criteria.

The following criteria were evaluated during the review:

- Chain of Custody Records – Acceptable, laboratory login matches the chain of custody.
- Custody Seals - Present on coolers, intact when samples delivered to lab.
- Container Integrity – Acceptable, all sample containers were received intact by the lab.
- Sample Temperature – Acceptable, received at 3.0 º C on ice.
- Trip Blank – The trip blank analyses were non-detect.
- Method Blanks – Seven analytes were detected in the method blanks in six batches:

Batch	Analyte	Result in ug/L	Reporting Limit	MDL	Wells
580-385641	1,2,3-Trichlorobenzene	3.05	2.0	0.43	MW-8, 9, 10, 11, 14
580-385641	1,2-Dibromo-3-Chloropropane	0.935 J	3.0	0.57	MW-8, 9, 10, 11, 14
580-385641	4-Isopropyltoluene	0.304 J	1.0	0.28	MW-8, 9, 10, 11, 14
580-385641	Naphthalene	2.81 J	3.0	0.93	MW-8, 9, 10, 11, 14
580-385667	1,2,3-Trichlorobenzene	0.571 J	2.0	0.43	MW-18, 19, 20, 23, 24, 25, 26, 27, 28
580-385858	1,2,3-Trichlorobenzene	0.514 J	2.0	0.43	MW-6, 7, 16, 22, 100, 101, 102, 103, DUP2
580-385877	1,2,3-Trichlorobenzene	0.598 J	2.0	0.43	Surrogates and LCS
580-385935	1,2,3-Trichlorobenzene	0.531 J	2.0	0.43	MW-8, 9, 10, 11, 13, 14, 15, 17, 29, 31, DUP1
580-385935	Ethylbenzene	0.548 J	1.0	0.50	MW-8, 9, 10, 11, 13, 14, 15, 17, 29, 31, DUP1
580-385935	Styrene	0.607 J	1.0	0.53	MW-8, 9, 10, 11, 13, 14, 15, 17, 29, 31, DUP1
580-385935	Toluene	0.730 J	1.0	0.39	MW-8, 9, 10, 11, 13, 14, 15, 17, 29, 31, DUP1
580-386710	cis-1,2-Dichloroethene	0.425 J	1.0	0.35	MW-30, Surrogates, and LCS

Results for these analytes in these batches were:

Sample	Batch	1,2,3-Trichloro-benzene	1,2-Dibromo-3-Chloropropane	4-Isopropyl-toluene	Naphthalene	Ethylbenzene	Styrene	cis-1,2-Dichloro-ethene
MW8	580-385641	0.43 U	0.57 U	0.28 U	0.93 U	--	--	--
MW9	580-385641	0.43 U	0.57 U	0.28 U	0.93 U	--	--	--
MW10	580-385641	0.43 U	0.57 U	0.28 U	0.93 U	--	--	--
MW11	580-385641	0.43 U	0.57 U	0.28 U	0.93 U	--	--	--
MW14	580-385641	0.43 U	0.57 U	0.28 U	0.93 U	--	--	--
MW18	580-385667	0.43 U	--	--	--	--	--	--
MW19	580-385667	0.43 U	--	--	--	--	--	--
MW20	580-385667	0.43 U	--	--	--	--	--	--
MW23	580-385667	0.43 U	--	--	--	--	--	--
MW24	580-385667	0.43 U	--	--	--	--	--	--
MW25	580-385667	0.43 U	--	--	--	--	--	--
MW26	580-385667	0.43 U	--	--	--	--	--	--
MW27	580-385667	0.43 U	--	--	--	--	--	--
MW28	580-385667	0.43 U	--	--	--	--	--	--
DUP2	580-385858	0.43 U	--	--	--	--	--	--
MW6	580-385858	0.43 U	--	--	--	--	--	--
MW7	580-385858	0.43 U	--	--	--	--	--	--
MW16	580-385858	0.43 U	--	--	--	--	--	--
MW22	580-385858	0.43 U	--	--	--	--	--	--
MW30	580-385858	0.43 U	--	--	--	--	--	--
MW100	580-385858	0.43 U	--	--	--	--	--	--
MW101	580-385858	0.43 U	--	--	--	--	--	--
MW102	580-385858	0.43 U	--	--	--	--	--	--
MW103	580-385858	0.43 U	--	--	--	--	--	--
DUP1	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW10	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW11	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW13	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW14	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--

Sample	Batch	1,2,3-Trichloro-benzene	1,2-Dibromo-3-Chloropropane	4-Isopropyl-toluene	Naphthalene	Ethylbenzene	Styrene	cis-1,2-Dichloro-ethene
MW15	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW17	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW29	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW31	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW8	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW9	580-385935	0.43 U	--	--	--	0.5 U	0.53 U	--
MW30	580-386710	0.43 U	--	--	--	--	--	5.7 H
Method Blank	580-386710	--	--	--	--	--	--	0.425 J

J = estimated, above the Method Detection Limit but below the Reporting Limit
H = analyzed beyond holding time

The method blank detection of cis-1,2-DCE in batch 580-386710 affects only sample MW30 from well MW-30. The concentration of cis-1,2-DCE in MW30 is more than 13 times that of the method blank, therefore the result is valid. For the other method blank detections all associated samples were non-detect for the analyte and the data is unaffected.

All other method blank analyses were non-detect.

- Surrogate Recoveries – Recoveries for 1,2-Dichloroethane-d4 were high for the following samples. This surrogate is associated with the analytes listed in the table. As per the EPA Data Validation criteria, samples where the analytes are detected should be labelled J+. The only detection to which this applies is carbon tetrachloride in sample MW27, but since it is already labelled E for estimated, outside of calibration, no further annotation is necessary.

Batch	Sample	Sample Results		
		1,1,1-Trichloroethane	Carbon tetrachloride	1,2-Dichloroethane
580-385858	DUP2	0.39 U	0.30 U	0.42 U
580-385858	MW100	0.39 U	0.30 U	0.42 U
580-385858	MW101	0.39 U	0.30 U	0.42 U
580-385858	MW102	0.39 U	0.30 U	0.42 U
580-385858	MW103	0.39 U	0.30 U	0.42 U
580-385858	MW16	0.39 U	0.30 U	0.42 U
580-385858	MW30	0.39 U	0.30 U	0.42 U
580-385858	MW6	0.39 U	0.30 U	0.42 U
580-385858	MW7	0.39 U	0.30 U	0.42 U
580-385667	MW18	0.39 U	--	0.42 U
580-385667	MW19	0.39 U	0.30 U	0.42 U
580-385667	MW20	0.39 U	0.30 U	0.42 U
580-385667	MW23	0.39 U	--	0.42 U
580-385667	MW24	0.39 U	--	0.42 U
580-385667	MW25	0.39 U	--	0.42 U
580-385667	MW26	0.39 U	0.30 U	0.42 U
580-385667	MW27	0.39 U	120 H E	0.42 U
580-385667	MW28	0.39 U	0.30 U	0.42 U
580-386710	MW30	0.39 U	0.30 U	0.42 U

Recoveries for 4-Bromofluorobenzene were high for three samples. The relative percent difference (RPD) is low and no data qualification is required.

Sample	Relative per cent difference
MW101	1.7%
MW27	10.8%
MW7	0.8%

Recoveries for Dibromofluoromethane were high in the following samples. The relative percent difference (RPD) is low and no data qualification is required.

Sample	Relative per cent difference
DUP2	8.3%
MW100	5.0%
MW101	7.5%
MW102	6.7%
MW103	10.0%
MW16	6.7%
MW18	2.5%
MW19	5.0%
MW22	6.7%
MW23	5.8%
MW24	2.5%
MW25	4.2%
MW26	5.0%
MW27	7.5%
MW28	5.8%
MW30	8.3%
MW6	6.7%
MW7	8.3%

All other surrogate recoveries were within acceptance criteria.

- Matrix Spikes – No matrix spikes were analyzed.

- Problems with analytical batch 580-385935 – All samples in batch 580-385935 were analyzed between 1/2 and 1 1/2 days past hold time due to analytical equipment failure. More than 20 analytes were detected in this batch at levels below the reporting limit but above the detection limit. Most of these have never been detected in groundwater samples from this Site and are at the same concentrations in 6 different samples. It is believed that the detections are the result of lab error, possibly carryover from a previous sample from another source and failure to properly purge the analytical equipment between samples. All of these detections (shown in the following table) should be labelled R for unusable. In Table 6, and in Figures 5 to 12 the results for these analyses will be listed as undetected (U) at the Reporting Limit instead of the Detection Limit.

  Detections of the five normally present contaminants, carbon tetrachloride, chloroform, cis-1,2-DCE, TCE, and PCE are likely valid in the wells where they are usually found.

ANALYTE	COMMENT	Batch 580-385935 SAMPLE NAME AND ANALYSIS DATE / TIME Detections in yellow should be labelled R for unusable											
		MW8	MW9	MW10	MW11	MW13	MW14	MW15	MW17	MW29	MW31	DUP1	MW20 10:1 DILUTION
		04/01/2022 01:24	04/01/2022 01:48	04/01/2022 02:11	04/01/2022 02:35	04/01/2022 02:59	04/01/2022 03:23	04/01/2022 03:47	04/01/2022 04:10	04/01/2022 08:08	04/01/2022 08:32	04/01/2022 08:55	4/1/22 6:09
1,1,1,2-Tetrachloroethane		ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H
1,1,1-Trichloroethane	Never detected	ND	ND	ND	ND	0.43 J H	ND	0.43 J H	0.43 J H	0.43 J H	0.43 J H	0.43 J H	4.3 J H
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,1,2-Trichloroethane		ND	ND	ND	ND	ND *+ H	ND	ND *+ H	ND *+ H	ND *+ H	ND *+ H	ND *+ H	ND*+ H
1,1-Dichloroethane	Never detected	ND	ND	ND	ND	0.37 J H	ND	0.37 J H	0.37 J H	0.37 J H	0.38 J H	0.37 J H	3.7 J H
1,1-Dichloroethene	Last detected 2010	0.34 J H	0.33 J H	0.33 J H	0.33 J H	0.33 J H	0.33 J H	0.33 J H	0.33 J H	0.33 J H	0.33 J H	0.33 J H	3.3 J H
1,1-Dichloropropene	Never detected	ND	ND	ND	ND	0.43 J H	ND	0.43 J H	0.43 J H	0.43 J H	0.43 J H	0.43 J H	4.3 J H
1,2,3-Trichlorobenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,2,3-Trichloropropane		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,2,4-Trichlorobenzene		ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H
1,2,4-Trimethylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,2-Dichlorobenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,2-Dichloroethane		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,2-Dichloropropane	Detected 2017-19 MW-15	ND	ND	ND	ND	0.41 J H	ND	0.41 J H	0.43 J H	0.41 J H	0.41 J H	0.41 J H	4.1 J H
1,3,5-Trimethylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,3-Dichlorobenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
1,3-Dichloropropane		ND	ND	ND	ND	ND *+ H	ND	ND *+ H	ND *+ H	ND *+ H	ND *+ H	ND *+ H	ND*+ H
1,4-Dichlorobenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
2,2-Dichloropropane	Never detected	ND	ND	ND	ND	0.47 J H	ND	0.46 J H	0.46 J H	0.47 J H	0.47 J H	0.47 J H	4.7 J H
2-Chlorotoluene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
4-Chlorotoluene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
4-Isopropyltoluene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H

ANALYTE	COMMENT	Batch 580-385935 SAMPLE NAME AND ANALYSIS DATE / TIME Detections in yellow should be labelled R for unusable											
		MW8	MW9	MW10	MW11	MW13	MW14	MW15	MW17	MW29	MW31	DUP1	MW20 10:1 DILUTION
		04/01/2022 01:24	04/01/2022 01:48	04/01/2022 02:11	04/01/2022 02:35	04/01/2022 02:59	04/01/2022 03:23	04/01/2022 03:47	04/01/2022 04:10	04/01/2022 08:08	04/01/2022 08:32	04/01/2022 08:55	4/1/22 6:09
Benzene	Detected in MW-15, 22, 26, 29	ND	ND	ND	ND	ND H	ND	0.29 J H	0.28 J H	0.27 J H	0.27 J H	0.27 J H	2.5 J H
Bromobenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Bromochloromethane	Not detected since 2011	ND	ND	ND	ND	0.42 J H	ND	0.42 J H	0.42 J H	0.42 J H	0.42 J H	0.42 J H	4.3 J H
Bromoform		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Bromomethane	Never detected	ND	ND	ND	ND	0.60 J H	ND	0.59 J H	0.60 J H	0.59 J H	0.59 J H	0.59 J H	5.9 J H
Carbon tetrachloride		ND	ND	ND	ND	0.48 J H	ND	**3.5 H**	0.53 J H	0.47 J H	0.48 J H	0.48 J H	66 H
Chlorobenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Chlorodibromomethane		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Chloroethane	Never detected	ND	ND	ND	ND	0.58 J H	ND	0.58 J H	0.60 J H	0.58 J H	0.58 J H	0.58 J H	5.9 J H
Chloroform		ND	ND	ND	ND	0.39 J H	**4.7**	**1.2 H**	0.58 J H	0.39 J H	0.39 J H	0.48 J H	24 H
Chloromethane		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
cis-1,2-Dichloroethene		ND	ND	ND	ND	0.43 J H	ND	0.46 J H	0.82 J H	0.43 J H	0.42 J H	0.50 J H	4.2 J H
cis-1,3-Dichloropropene	Never detected	ND	ND	ND	ND	0.49 J H	ND	0.51 J H	0.49 J H	0.49 J H	0.49 J H	0.49 J H	4.9 J H
Dibromomethane	Never detected	ND	ND	ND	ND	0.40 J *+ H	ND	0.39 J *+ H	0.39 J *+ H	0.39 J *+ H	0.39 J *+ H	0.40 J *+ H	4.0 J *+ H
Dichlorobromomethane	Detected 2018 but not in these wells	ND	ND	ND	ND	0.40 J H	0.36 J	0.40 J H	0.40 J H	0.39 J H	0.39 J H	0.39 J H	4.0 J H
Dichlorodifluoromethane		ND *+	ND *+	ND *+	ND *+	ND H	ND *+	ND H	ND H	ND H	ND H	ND H	ND H
Ethylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Ethylene Dibromide		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Hexachlorobutadiene		ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H
Isopropylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Methyl tert-butyl ether	Never detected	ND	ND	ND	ND	0.49 J H	ND	0.49 J H	0.49 J H	0.49 J H	0.49 J H	0.49 J H	4.9 J H
Methylene Chloride		ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H	ND H

ANALYTE	COMMENT	Batch 580-385935 SAMPLE NAME AND ANALYSIS DATE / TIME Detections in yellow should be labelled R for unusable											
		MW8	MW9	MW10	MW11	MW13	MW14	MW15	MW17	MW29	MW31	DUP1	MW20 10:1 DILUTION
		04/01/2022 01:24	04/01/2022 01:48	04/01/2022 02:11	04/01/2022 02:35	04/01/2022 02:59	04/01/2022 03:23	04/01/2022 03:47	04/01/2022 04:10	04/01/2022 08:08	04/01/2022 08:32	04/01/2022 08:55	4/1/22 6:09
m-Xylene & p-Xylene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Naphthalene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
n-Butylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
N-Propylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
o-Xylene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
sec-Butylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Styrene	Never detected	ND	ND	ND	ND	ND H	ND	0.59 J H B	ND H	0.60 J H B	0.60 J H B	0.60 J H B	6.1 J H B
tert-Butylbenzene		ND	ND	ND	ND	ND H	ND	ND H	ND H	ND H	ND H	ND H	ND H
Tetrachloroethene	Not detected in these wells	ND	ND	ND	ND	0.44 J H	ND	0.43 J H	0.44 J H	0.41 J H	0.41 J H	0.47 J H	4.2 J H
Toluene		ND	ND	ND	ND	0.47 J H B	ND	0.48 J H B	0.43 J H B	ND H	ND H	ND H	ND H
trans-1,2-Dichloroethene		ND	ND	ND	ND	0.42 J H	ND	0.42 J H	0.43 J H	0.42 J H	0.42 J H	ND H	4.3 J H
trans-1,3-Dichloropropene	Never detected	ND	ND	ND	ND	0.49 J H	ND	0.48 J H	0.48 J H	0.49 J H	0.48 J H	0.48 J H	4.8 J H
Trichloroethene		ND	ND	ND	ND	0.44 J H	ND	**14 H**	**8.3 H**	0.45 J H	0.42 J H	0.52 J H	4.5 J H
Trichlorofluoromethane	Never detected	ND	ND	ND	ND	0.64 J H	ND	0.64 J H	0.64 J H	0.64 J H	0.64 J H	0.64 J H	6.4 J H
Vinyl chloride	Never detected	ND	ND	ND	ND	0.40 J H	ND	0.40 J H	0.41 J H	0.40 J H	0.40 J H	0.40 J H	4.0 J H

- MW20 data problems – The same group of previously undetected analytes that were present in six other samples in batch 580-385935 were present in MW20, but at higher concentrations. The results are exactly 10 times those for the other samples in this batch, due to the 10:1 dilution. Except for the non-detect of carbon tetrachloride, the non-dilution results, analyzed in another batch, are close to those expected based on sampling since 2006. It is possible that the non-detection of carbon tetrachloride is also explained by a lab error of entering an incorrect value for the dilution factor. Regardless of the possible explanation, all data for sample MW20 analyzed at a 10:1 dilution and analyzed in batch 580-385935 should be labelled R for unusable.

ANALYTE	NO-DILUTION RESULT	10:1 DILUTION RESULT	EXPECTED RESULT
Carbon tetrachloride	1 U	66 H	2000
Chloroform	190 E	24 H	190
cis-1,2-Dichloroethene	0.57 J	4.2 J H	0.6
Tetrachloroethene	13	4.2 J H	13
Trichloroethene	260 E	4.5 J H	260

E = estimated, beyond calibration limits

- Field Duplicate – Results from sample MW3 and its duplicate DUP1 could hardly be more different. The only two detections in MW3 were not detected in DUP1. There were 22 detections in DUP1, all below the reporting limit. None were found in MW3. DUP1 was analyzed in a different batch from MW3. There were 5 other samples in the same analysis batch as DUP1 with similar or in many cases, identical results. It is believed that all of the detections in this batch (580-385935) are carryover from a sample that was from another project and the analytical equipment was not properly purged between samples.

Compound Name	Field Sample - MW3		Field Duplicate - DUP1		MDL
	Result	Qualifier	Result	Qualifier	
1,1,1,2-Tetrachloroethane	0.18	U	0.18	H U	0.18
1,1,1-Trichloroethane	0.39	U	0.43	J H	0.39
1,1,2,2-Tetrachloroethane	0.52	U	0.52	H U	0.52
1,1,2-Trichloroethane	0.24	U	0.24	*+ H U	0.24
1,1-Dichloroethane	0.22	U	0.37	J H	0.22
1,1-Dichloroethene	0.28	U	0.33	J H	0.28
1,1-Dichloropropene	0.29	U	0.43	J H	0.29
1,2,3-Trichlorobenzene	0.43	H	0.43	H U	0.43
1,2,3-Trichloropropane	0.41	U	0.41	H U	0.41
1,2,4-Trichlorobenzene	0.52	J	0.33	H U	0.33
1,2,4-Trimethylbenzene	0.61	*+ U	0.61	H U	0.61
1,2-Dibromo-3-Chloropropane	0.57	U	0.57	H U	0.57
1,2-Dichlorobenzene	0.46	U	0.46	H U	0.46
1,2-Dichloroethane	0.42	U	0.42	H U	0.42
1,2-Dichloropropane	0.18	U	0.41	J H	0.18
1,3,5-Trimethylbenzene	0.55	U	0.55	H U	0.55

Compound Name	Field Sample - MW3		Field Duplicate - DUP1		MDL
	Result	Qualifier	Result	Qualifier	
1,3-Dichlorobenzene	0.48	U	0.48	H U	0.48
1,3-Dichloropropane	0.35	U	0.35	*+ H U	0.35
1,4-Dichlorobenzene	0.46	U	0.46	H U	0.46
2,2-Dichloropropane	0.32	U	0.47	J H	0.32
2-Chlorotoluene	0.51	U	0.51	H U	0.51
4-Chlorotoluene	0.38	U	0.38	H U	0.38
4-Isopropyltoluene	0.28	*+ U	0.28	H U	0.28
Benzene	0.24	U	0.27	J H	0.24
Bromobenzene	0.43	U	0.43	H U	0.43
Bromochloromethane	0.29	U	0.42	J H	0.29
Bromoform	0.51	U	0.51	H U	0.51
Bromomethane	0.21	U	0.59	J H	0.21
Carbon tetrachloride	0.30	U	0.48	J H	0.30
Chlorobenzene	0.44	U	0.44	H U	0.44
Chlorodibromomethane	0.43	U	0.43	H U	0.43
Chloroethane	0.35	U	0.58	J H	0.35
Chloroform	0.26	U	0.48	J H	0.26
Chloromethane	0.28	U	0.28	H U	0.28
cis-1,2-Dichloroethene	0.35	U	0.50	J H	0.35
cis-1,3-Dichloropropene	0.42	*+ U	0.49	J H	0.42
Dibromomethane	0.34	U	0.40	J *+ H	0.34
Dichlorobromomethane	0.29	U	0.39	J H	0.29
Dichlorodifluoromethane	0.53	U	0.53	H U	0.53
Ethylbenzene	0.50	U	0.50	H U	0.50
Ethylene Dibromide	0.40	U	0.40	H U	0.40
Hexachlorobutadiene	0.79	U	0.79	H U	0.79
Isopropylbenzene	0.44	U	0.44	H U	0.44
Methyl tert-butyl ether	0.44	*+ U	0.49	J H	0.44
Methylene Chloride	1.40	U	1.40	H U	1.4
m-Xylene & p-Xylene	0.53	U	0.53	H U	0.53
Naphthalene	0.96	J *+	0.93	H U	0.93
n-Butylbenzene	0.44	U	0.44	H U	0.44
N-Propylbenzene	0.50	U	0.50	H U	0.50
o-Xylene	0.39	U	0.39	H U	0.39
sec-Butylbenzene	0.49	*+ U	0.49	H U	0.49
Styrene	0.53	U	0.60	J H B	0.53
tert-Butylbenzene	0.58	U	0.58	H U	0.58
Tetrachloroethene	0.41	U	0.47	J H	0.41
Toluene	0.39	U	0.39	H U	0.39
trans-1,2-Dichloroethene	0.39	U	0.39	H U	0.39
trans-1,3-Dichloropropene	0.41	*+ U	0.48	J H	0.41

Compound Name	Field Sample - MW3		Field Duplicate - DUP1		MDL
	Result	Qualifier	Result	Qualifier	
Trichloroethene	0.26	U	0.52	J H	0.26
Trichlorofluoromethane	0.36	U	0.64	J H	0.36
Vinyl chloride	0.22	U	0.40	J H	0.22

- Field Duplicate – Results from MW102 and DUP2 were almost identical, as there were no detections except TCE. TCE was detected at 4.1 ug/L in MW102 and 4.0 in DUP2.

- Holding Times – All 12 samples in batch 580-385935 were analyzed between ½ and 1 ½ days past hold time due to analytical equipment failure. All samples analyzed past hold time have been annotated H.
  Several samples as batch 580-385601 were re-analyzed 7 days past hold time. All are labelled H.

Sample	Sample date	Analysis date	Compound Name	Result	Qualifier
MW100	03/17/2022	04/07/2022	Trichloroethene	6.7	H
MW101	03/17/2022	04/07/2022	Trichloroethene	2.2	H
DUP2	03/17/2022	04/07/2022	Trichloroethene	4.0	H
MW102	03/17/2022	04/07/2022	Trichloroethene	4.1	H
MW22	03/17/2022	04/07/2022	Carbon tetrachloride	13	H
MW22	03/17/2022	04/07/2022	Trichloroethene	5.5	H

Summary

The results are valid as reported with the following exceptions:

For the seven samples in batch 580-385935 where analytes were detected below the reporting limit but above the detection limit and are at the same concentrations (see table above): All of these detections should be labelled R for unusable. In Table 6, and in Figures 5 to 12, the results for these analyses will be listed as undetected (U) at the Reporting Limit instead of the Detection Limit.

Detections in batch 580-385935 of the five normally present contaminants (carbon tetrachloride, chloroform, cis-1,2-DCE, TCE, and PCE) are likely valid in the wells where they are usually found.

The results from the 10:1 dilution analysis of sample MW20 are unusable. Although some of the concentrations for the undiluted sample are estimated, they should be used.

There were an extraordinarily large number of QC problems with this data. The lab report narrative contains two pages of explanations of failures to meet QC standards in the lab control standards (LCS) and continuing calibration verifications (CCV).

References

EPA 2014. National Functional Guidelines for Superfund Organic Methods Data Review, August.