NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)

ALBANY SITE
GROUNDWATER MONITORING REPORT
EVENT 41 – March 2020

Site Operations Services
Contract Number 89243320CFE000041.4.5.000001

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

Submitted

May 4, 2020

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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 2020 (Periodic Event 41) groundwater sampling and analysis activities performed by USSE2 at the United States Department of Energy (DOE) National Energy Technology Laboratory (NETL) in Albany, Oregon (the Site). The March 2020 sampling event is the 41st 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 2020 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 show a potentiometric high near monitoring well MW-16. Groundwater flows radially away from the high located around MW-16.

Groundwater samples were collected from thirty-one of the thirty-three two-inch diameter monitoring wells between March 2 and March 5, 2020. 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 2018). All groundwater samples were submitted for analysis of volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260C.

Seven VOCs were detected during the March 2020 sampling event and are discussed in Section 4.1: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), hexachlorobutadiene, tetrachloroethene (PCE), and trichloroethene (TCE). Six of these VOCs were detected at concentrations that exceed Oregon Groundwater Maximum Measurement Levels (MMLs), Oregon Hot Spot tables, Oregon Risk-Based Concentrations (RBCs), EPA Regional Screening Levels (RSLs), or EPA Primary Maximum Contaminant Levels (MCLs).

1.0 Introduction

This report describes the March 2020 (Periodic Event 41) groundwater sampling and analysis performed by USSE2 at the DOE NETL site in Albany, Oregon (Figure 1). This report is issued by WE2 which replaced USSE2 for support of the Albany Groundwater Program on April 1, 2020. The sampling was conducted in accordance with the Groundwater Monitoring Plan Revision 13, for National Energy Technology Laboratory, Albany, Oregon (USSE2, January 2018) and the National Energy Technology Laboratory, Albany Groundwater Sampling Event 41 Work Plan Memo (January 2020).

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 2020 sampling event is the forty-first round of groundwater sampling conducted at the Site under the general program that was developed 2001. The following table lists previous sampling events:

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

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 (with USSE2, Event 33 through Event 40). Historical data are also summarized in the latest version of the GWMP (USSE2, January 2018). 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 USSE2 during the March 2020 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 the thirty-five of 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 41.

One well, MW-23 was re-checked on March 10, 2020 for ground water level due to what appeared to be a reading that was not consistent with previous wet season readings. A revised water level reading field sheet was generated will be submitted with the sampling report.

2.2 Groundwater Sampling

Groundwater samples were collected between March 2 and March 5, 2020 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 8260C.

Two field duplicates and two matrix spike/matrix spike duplicate quality control samples were collected during the event, one set from MW-10 and MW-11. 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 C. The purge water was disposed through the industrial waste water system in accordance with the site's industrial waste water permit.

2.4 Data Review and Validation

A 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.

Based on low matrix spike recoveries all analyses from well MW-10 should be labelled UJ for not detected, estimated. The remainder of the data is valid as reported. 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 41.

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 Gravel Aquifer across much 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.

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 southern and 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 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 2020 Groundwater Elevations and Flow Direction

Groundwater levels were measured in the thirty-five existing wells and piezometers in March 2020. Groundwater depths ranged from 1.45 feet bgs at MW-7 to 19.28 feet bgs at MW-1. Groundwater elevations ranged from 205.89 feet above mean sea level (amsl) at MW-6 to 223.21 feet amsl at MW-10. Event 41 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 seasonal variability in groundwater elevations reflects the low precipitation during the dry season (between July and September) as compared to higher groundwater elevations during wet season (between November and May).

The average March 2020 groundwater elevation (211.60 feet) was 3.91 feet higher than the average elevation during the previous dry season (August 2019, 207.69 feet) and 0.12 feet higher than the previous wet season (March 2019, 211.48).

Figures 3 and 4 show the groundwater elevation contours for the Perched Aquifer and Gravel Aquifer, respectively, for the March 2020 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 2020 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 topographic high near MW-10. The gradient during March 2020 was 6.03 E-03 (MW-10 to MW-11) in the northern part of the site, and between 1.44 E-02 (MW-10 to MW-8) and 5.77 E-03 (MW-10 to MW-4) in the southern part of the site.

In the Gravel Aquifer, groundwater elevation data show a potentiometric high near monitoring well MW-16. Groundwater flows radially away from the high located around MW-16 (Figure 4). The gradient in the gravel aquifer is relatively flat across the site and under the Liberty Elementary School property; -2.18 E-04 between MW-23 and MW-24 and 1.60 E-03 (between MW-25 and MW-23). The gradient steepens to the south (1.12 E-02 between MW-16 and MW-6 and 6.52 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 2020 sampling event. Groundwater samples from thirty-one monitoring wells were analyzed for VOCs. Table 5 summarizes the March 2020 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 Test America 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 2020 groundwater data are compared to the lowest screening criteria for each analyte and are discussed in the following sections. Any result annotated with a “U” qualifier (in either the tables or appendices) or reported “ND” in the lab report signifies that the chemical was not detected above the method detection limit. Any result annotated with a “J” qualifier is an estimate, since the value is below the method reporting limit but above the method detection limit.

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

4.1 Volatile Organic Compounds

Seven VOCs - carbon tetrachloride, chloroform, cis-1,2-DCE, hexachlorobutadiene, PCE, trans-1,2-DCE, and TCE - were detected during the March 2020 sampling event. 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 ten of the thirty-one wells sampled during the March 2020 sampling event at concentrations ranging from 0.40 J µg/L at MW-14 to 2,200 µg/L at MW-20. Nine of the detections of carbon tetrachloride exceeded the minimum groundwater criteria, which is the Oregon DEQ RBC of 0.41 µg/L. In addition, nine of the detections exceed the EPA RSL of 0.43 µg/L. Six of the detections exceed the EPA Primary Drinking Water Standard, the Oregon Hot Spot Value and the Oregon Groundwater MMLs of 5 µg/L. Carbon tetrachloride is an industrial solvent that was historically used in degreasing and other industrial applications.

Chloroform. Chloroform was detected in nine of the thirty-one wells sampled during the March 2020 sampling event at concentrations ranging from 0.89 J µg/L at MW-5 to 240 µg/L at MW-18. 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 concentrations exceeded the EPA RSL of 0.22 µg/L, two 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 five of the thirty-one wells sampled during the March 2020 sampling event at concentrations ranging from 1.1 J µg/L at MW-102 to 6.2 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.

Hexachlorobutadiene. Hexachlorobutadiene was detected in one of the thirty-one wells sampled during the March 2020 sampling event at a concentration of 0.79 J µg/L at MW-18. The detection exceeded the minimum groundwater criteria, which is the EPA RSL of 0.30 µg/L. Hexachlorobutadiene was used as a solvent and is also a byproduct of chlorinated solvent manufacture.

Tetrachloroethene (PCE). PCE was detected in three of the thirty-one wells sampled during the March 2020 sampling event at concentrations ranging from 1.2 J µg/L at MW-22 to 120 µg/L at MW-18. 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.

Trans-1,2-Dichloroethene (trans-1,2-DCE). Trans-1,2-DCE was detected in one of the thirty-one wells sampled during the March 2020 sampling event at a concentration of 0.56 J µg/L at MW-30. The detection did not exceed the minimum groundwater criteria, which is the EPA RSL of 36 µg/L.

Trichloroethene (TCE). TCE was detected in ten of the thirty-one wells sampled during the March 2020 sampling event at concentrations ranging from 1.1 J µg/L at MW-100 to 1,200 µg/L at MW-15. 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 six 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 Metals

Metals were not sampled during the March 2020 sampling event.

4.3 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 2020:

- Temperatures ranged from 10.92 degrees Celsius (°C) at MW-6 to 17.70 °C at MW-28.
- DO was detected in all of the thirty-one wells.
- pH ranged from 6.14 s.u. at MW-9 to 7.65 s.u. at MW-23.
- Conductivity ranged from 0.097 milli Siemens per centimeter (mS/cm) at MW-9 to 4.050 mS/cm at MW-15.
- ORP ranged from -97 millivolts (mV) at MW-31 to 306 mV at MW-10.
- Eleven of the wells sampled had measurable turbidity, once readings stabilized. The measurable turbidity ranged from 0.3 nephelometric turbidity units (NTUs) at MW-17, to 816 NTUs at MW-16.

4.4 Contaminant Trends

Several important trends in the VOC concentrations were noted at 19 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-29, MW-30, MW-100, MW-101, MW-102 and MW-103. Trend plots (Figure 6) support the discussion below.

- *MW-3.* Concentrations of chloroform, cis-1,2-DCE, and TCE remain non-detected since August 2017.
- *MW*-4. Carbon tetrachloride was detected after remaining non-detect from the first detection in April 2016.
- *MW*-5. Concentrations of chloroform continue to fluctuate with higher concentrations reported during the dry season; 1.9 µg/l was reported for August 2019, below the previous high recorded in August 2017 of 4.8 µg/l. The March 2020 concentration was 0.89 µg/l, slightly higher that 0.69 µg/l in March 2019. Concentrations of carbon tetrachloride were elevated at 15.0 µg/l during the March 2009 sampling event but decreased to non-detect in August 2009.
- *MW*-6. Concentrations of cis-1,2-DCE continue to fluctuate, with higher concentrations reported during the dry season. Cis-1,2-DCE was non-detect in March 2020. Carbon tetrachloride, chloroform, TCE, and PCE continued to be non-detect during the March 2020 sampling event.
- *MW-14.* Concentrations of chloroform continue to fluctuate with higher concentrations reported during the wet season, but with an overall downward trend since the most recent high of 12 µg/l in April 2016. The chloroform concentration was 2.0 µg/l in March 2020, the same as March 2019. The carbon tetrachloride concentration was 0.40 J µg/l in March 2020 after being non-detect in March 2019. Concentrations of cis-1,2-DCE, TCE, and PCE remain non-detected during the March 2020 sampling event.
- *MW-15.* Concentrations of TCE increased after a period of decrease. TCE was recorded at an all-time high of 3,100 µg/l in March 2019 and at 1,400 µg/l in August 2019. The TCE concentration was 1,200 µg/l in March 2020. This will continue to be evaluated. Concentrations of carbon tetrachloride decreased with respect to the prior wet season sampling event (March 2019). Concentrations of chloroform decreased slightly and cis-1,2.-DCE stayed the same in March 2020 from the prior wet season sampling event (March 2019). Concentrations of PCE remain non-detected.
- *MW-17.* TCE was reported at a decreased level compared with the previous sampling event (August 2019) and consistent with the prior wet season sampling event (March 2019). Concentrations of carbon tetrachloride were non-detect like the previous wet season sampling event (March 2019). Both TCE and carbon tetrachloride concentrations have shown a downward trend since August 2014. Concentrations of cis-1,2-DCE, chloroform, and PCE remain non-detected during the March 2020 sampling event.
- *MW-18.* The five primary VOCs (carbon tetrachloride, chloroform, cis-1,2-DCE, TCE, and PCE) show seasonal trends, returning to typical higher concentrations during the wet season. The March 2020 wet season increases are less than previous ones.
- *MW-20.* Concentrations of carbon tetrachloride, chloroform, PCE, and TCE fluctuate seasonally and increased in March 2020 as compared to the previous dry season sampling event (August 2019). Concentrations of cis-1,2-DCE decreased from the prior wet sampling event (March 2019) and remain non-detected in March 2020.
- *MW-22.* Concentrations of carbon tetrachloride, chloroform, and TCE decreased slightly from prior sampling event (August 2019). PCE and cis-1,2-DCE increased slightly from prior sampling event (August 2019).
- *MW-23.* Concentrations of carbon tetrachloride, chloroform, and TCE are consistent with previous events. PCE and cis-1,2-DCE remain at non-detected concentrations.
- *MW-24.* TCE, carbon tetrachloride and chloroform increased slightly. In addition, concentrations of PCE and cis-1,2-DCE remained at non-detect after prior sampling events.
- *MW*-27. Carbon tetrachloride and chloroform in March 2020 is consistent with past events. Concentrations of cis-1,2-DCE, PCE, and TCE remain at non-detected concentrations.
- *MW-29.* Carbon tetrachloride was detected for the first time in September 2016 but has since returned to non-detect.
- *MW*-30. Concentration of cis-1,2-DCE in March 2020 was consistent with prior sampling events. Carbon tetrachloride, chloroform, PCE, and TCE remain non-detected.
- *MW-100.* Concentrations of TCE continue to fluctuate seasonally, with concentrations consistent with the previous wet season sampling event. Concentrations of carbon tetrachloride, chloroform, cis-1,2-DCE, and PCE remain non-detected.
- *MW*-101. TCE was detected at 1.2 J µg/L for March 2020, slightly lower than the two previous sampling events. Concentrations of carbon tetrachloride, chloroform, cis-1,2-DCE, and PCE remain non-detected.
- *MW-102*. Concentrations of TCE are consistent with past sampling events, slightly higher during the wet season sampling events. Cis-1,2-DCE was detected for the first time since April 2017. Carbon tetrachloride, chloroform, and PCE remain non-detected.
- *MW*-103. Carbon tetrachloride was detected for the first time, with a concentration of 0.46 µg/l. Chloroform, cis-1,2-DCE, PCE, and TCE remain non-detect.

Results from Event 41 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. A new figure was added to this report, 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 eight of the twenty-one wells in the Gravel Aquifer and two 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 highest detected carbon tetrachloride concentration (2,200 µg/L) was in well MW-20, located north of the suspected primary source area. The concentrations at MW-20 are typically the location of the highest concentrations in the wet seasons and, as shown by concentration trends in Figure 6, these concentrations have been steadily increasing. Concentrations in MW-24 at the northern property boundary have been steadily increasing, while concentrations at MW-20 have been increasing steadily since approximately March 2006. These trends continued in March 2020.

Well MW-103, downgradient of the eastern limit of carbon tetrachloride contamination, has never had a detectable concentration until March 2020. To the southwest, MW-22 had a concentration of 16 µg/L during Event 41. This well shows an overall decreasing trend in carbon tetrachloride concentrations except for the August 2015 detection, which had increased from the prior two sampling events. The data indicate that the extent of contamination may have migrated offsite to the southwestern area and the eastern area, however, concentrations are decreasing in off-site wells east of the Site. Well MW-29 showed a detection of carbon tetrachloride for the first time (0.64 µg/L) in 2016 but has gone back to non-detect since then. It was the second of the perched wells to show carbon tetrachloride in this area of the site (MW-27 is the other).

Chloroform. Chloroform is an early breakdown product of carbon tetrachloride in the reductive dechlorination and denitrification biological breakdown processes. Chloroform was detected in eight 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 (240 µg/L) is at MW-18 which is located near the primary source area. 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 fluctuated greatly since March 2009. Concentrations to the north of the release area, specifically MW-24 show a slow increase in concentrations over time. Concentrations at MW-20 have shown a general increase in concentrations over time. Concentrations to the southwest (MW-22), have shown a decrease in concentrations over time. Delineation of concentrations is not complete further to the southwest beyond MW-22.

Trichloroethene. Figure 9 shows contours of TCE concentrations in the Gravel Aquifer. TCE was detected in ten of the twenty-two wells in the Gravel Aquifer and no wells in the Perched Aquifer. Concentrations of TCE are highest in MW-15 at 1,400 µg/L. This has been an increasing trend over the prior two events. Concentrations are typically highest in MW-18 and MW-15. Concentrations in MW-15 spiked during March 2019 at 3100 µg/L, but have markedly decreased in August 2019 (1400 µg/L) and March 2020 (1200 µg/L). Concentrations in MW-18 continue to fluctuate with higher concentrations reported during the wet season. TCE concentrations continue to increase in the northern part of the site at MW-24 over time. Concentrations appear to be decreasing in the southwest part of the site. TCE concentrations in MW-100, MW-102 and MW-103, in the eastern area of contamination, have consistently been above detection limits, but concentrations are low and decreasing and currently not detected in MW-103. Concentrations at MW-102 are generally decreasing since approximately August 2015.

Tetrachloroethene. PCE concentration contours are shown on Figure 10. During Event 41, PCE was detected in three of the twenty-two wells in the Gravel Aquifer and none in the Perched Aquifer. The highest concentration (120

µg/L) was at MW-18, which is consistent with the previous wet season events. It would appear likely that PCE sources near MW-18 would be transported off site to the northwest (near MW-20) along with other VOCs.

PCE concentrations to the southwest, at MW-22, are generally stable and consistent with previous sampling events. Concentrations to the northwest at MW-20 have fluctuated significantly since 2010. Concentrations along the northern site boundary by MW-24 have fluctuated greatly since 2012 and are reported at their highest concentration since sampling began but went back to non-detect in September 2016, whereas concentrations at MW-23 have remained non-detect since August 2012. PCE has not been detected at the eastern perimeter of the Site, nor has PCE been detected in the monitoring wells east of the Site.

Cis 1,2-DCE. Cis 1,2-DCE concentration contours in the Gravel Aquifer are shown on Figure 12. During Event 41, cis 1,2-DCE was detected in five of the twenty-two wells in the Gravel Aquifer. The highest concentration (6.2 µg/L) was at MW-30, which is consistent with the previous events. MW-15, MW-18, and MW-22 concentrations were also consistent with previous sampling events. Cis 1,2-DCE was detected in MW-102 during Event 41 for the first time since April 2017.

5.0 Summary

This section summarizes WE2's observations on the results of the 41st periodic sampling event conducted in March 2020.

5.1 Groundwater Flow

- Groundwater levels were measured in thirty-five of the thirty-five existing wells and piezometers in March 2020. Groundwater depths ranged from 1.45 feet bgs at MW-7 to 19.28 feet bgs at MW-1. Groundwater elevations ranged from 205.89 feet above mean sea level (amsl) at MW-6 to 223.21 feet amsl at MW-10.
- The average March 2020 groundwater elevation was 3.91 feet higher than the average elevation during the previous dry season (August 2019) and 0.12 feet higher than the previous wet season (March 2019).
- Groundwater elevations from wells in the Perched Aquifer (Figure 3) measured during the March 2020 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 topographic high near MW-10.
- In the Gravel Aquifer, groundwater elevation data show a potentiometric high near monitoring well MW-16. Groundwater flows radially away from the high located around MW-16 (Figure 4).

5.2 Groundwater Quality

- Carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), hexachlorobutadiene, tetrachloroethene (PCE), trans-1,2-DCE, and trichloroethene (TCE) were detected during the March 2020 sampling event.
- Detections of carbon tetrachloride (9), chloroform (9), cis-1,2-DCE (1), hexachlorobutadiene (1), PCE (2), and TCE (10) in groundwater exceeded minimum screening criteria.

5.3 Contaminant Trends

Concentrations in many wells are stable or decreasing.

- Contaminant concentrations fluctuate seasonally without obvious trends in MW-3, MW-6, MW-14, MW-18, and MW-100.
- Concentrations of chloroform, carbon tetrachloride and TCE have stabilized since approximately August 2013 in MW-22.
- MW-30 concentrations of cis-1,2-DCE and TCE are stable.
- Carbon Tetrachloride was detected for the first time in MW-29 at 0.64 µg/l in September 2016 (above the screening criteria of 0.45 µg/l) but has since gone back to non-detect. This will continue to be monitored.

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 MW-20 and MW-24, located in the northwest corner of the site.

- Concentrations of chloroform and carbon tetrachloride have increased since approximately August 2013. Concentrations of TCE are stable.
- Concentrations of carbon tetrachloride was detected in MW-4 after remaining non-detect from the first detection in April 2016.
- MW-5 returned to chloroform detection in September 2016 after a reported a concentration of chloroform higher than prior sampling events. The detection exceeds the minimum applicable screening criteria.
- Carbon tetrachloride was detected in MW-14 after remaining non-detect since February 2014.

- MW-15 concentrations fluctuate seasonally with concentrations of TCE increasing. Concentrations of carbon tetrachloride decreased with respect to the prior wet season sampling event (March 2019). Chloroform and cis-1,2-DCE concentrations remain stable.
- TCE in MW-17 was reported at concentrations at a decreased level compared with the previous sampling event (August 2019) and consistent with the prior wet season sampling event (March 2019). Concentrations of carbon tetrachloride were non-detect like the previous wet season sampling event (March 2019).
- MW-20 concentrations of carbon tetrachloride, chloroform, PCE, and TCE fluctuate seasonally and increased in March 2020 as compared to the previous dry season sampling event (August 2019). Concentrations of cis-1,2-DCE decreased from the prior wet sampling event (March 2019) and remain non-detected in March 2020.
- Carbon tetrachloride, chloroform, and TCE concentrations are increasing slightly in MW-24. In addition, concentrations of PCE and cis-1,2-DCE remained at non-detect after prior sampling events.
- Concentrations of carbon tetrachloride, chloroform, and TCE are greater than screening criteria at locations near the north-northwestern (MW-24, MW-23 and MW-20), and southwestern (MW-22) property boundaries. Only TCE concentrations exceed screening criteria at the eastern (MW-17) property boundary.
- Concentrations of PCE greater than the minimum screening criteria occur near the suspected source area (MW-18).
- TCE is detected at concentrations greater than the minimum screening criteria at offsite wells MW-100, MW-101 and MW-102 east of the site.
- Concentrations of TCE in MW-102 are consistent with past sampling events, slightly higher during the wet season sampling events. Cis-1,2-DCE was detected for the first time since April 2017. Concentrations of carbon tetrachloride, chloroform, and PCE remain non-detected.
- Carbon tetrachloride was detected in MW-103 for the first time.

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.

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

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

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USSE2, *Groundwater Monitoring Plan for the National Energy Technology Laboratory-Albany, Revision 13, Albany, Oregon.* January 2018.

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.

USSE2, *National Energy Technology Laboratory, Albany Groundwater Sampling Event 41 Work Plan Memo.* January 2020.

Tables

Table 1
Monitoring Well Construction

Groundwater Sampling Event 41
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 41
NETL Albany, Albany, OR

Well Number	Sample Date	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)	Water Quality Measurements					
					pH	Specific Conductivity (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)
MW-1	3/02/20	228.10	19.28	208.82	-	-	-	-	-	-
MW-3	3/02/20	219.61	9.11	210.50	6.84	0.260	0.0	4.16	268	13.57
MW-4	3/03/20	218.28	2.03	216.25	6.93	0.410	2.7	1.10	280	14.81
MW-5	3/04/20	217.08	10.55	206.53	7.12	0.424	6.4	1.46	17	12.51
MW-6	3/04/20	219.48	13.59	205.89	6.65	0.123	2.4	4.92	290	10.92
MW-7	3/05/20	216.85	1.45	215.40	6.57	0.323	0.0	2.65	273	14.52
MW-8	3/03/20	220.23	7.72	212.51	6.65	0.178	0.0	1.30	276	13.04
MW-9	3/03/20	224.00	2.37	221.63	6.14	0.097	0.0	0.79	283	12.15
MW-10	3/03/20	225.41	2.20	223.21	6.49	0.152	58.8	3.20	306	14.17
MW-11	3/05/20	227.73	7.54	220.19	6.18	0.111	34.0	2.58	261	12.46
MW-13	3/02/20	223.31	10.28	213.03	7.07	0.219	0.0	3.41	188	12.17
MW-14	3/02/20	224.77	14.77	210.00	6.93	0.187	0.0	5.09	246	13.88
MW-15	3/05/20	222.96	12.33	210.63	6.70	4.050	0.0	1.82	296	15.33
MW-16	3/05/20	217.57	6.50	211.07	6.85	0.378	816	0.89	252	14.24
MW-17	3/02/20	218.84	8.27	210.57	7.32	0.300	0.3	2.68	261	14.34
MW-18	3/04/20	224.00	13.49	210.51	7.22	0.354	0.0	2.33	239	17.80
MW-19	3/03/20	224.20	13.90	210.30	6.61	0.164	0.0	0.40	248	14.26
MW-20	3/03/20	225.62	16.08	209.54	6.92	0.378	0.0	2.44	300	15.02
MW-21	3/02/20	216.60	6.07	210.53	-	-	-	-	-	-
MW-22	3/02/20	216.57	6.45	210.12	7.18	0.309	0.0	1.62	241	12.05
MW-23	3/02/20	227.87	19.00	208.87	7.65	0.334	0.0	4.90	255	13.76
MW-24	3/05/20	227.49	18.55	208.94	7.32	0.341	5.1	1.59	272	12.90
MW-25	3/03/20	220.38	9.40	210.98	6.96	0.204	0.0	1.87	256	12.63
MW-26	3/02/20	220.63	11.55	209.08	6.94	0.280	0.0	2.37	245	13.70
MW-27	3/05/20	222.80	9.18	213.62	7.12	0.292	0.0	5.49	298	12.81
MW-28	3/04/20	223.52	4.05	219.47	7.43	0.125	0.0	4.60	223	17.67
MW-29	3/03/20	217.93	7.50	210.43	7.25	0.546	30.7	1.73	-62	16.52
MW-30	3/04/20	219.26	12.42	206.84	7.33	0.347	3.8	2.23	-95	12.53
MW-31	3/04/20	216.78	10.02	206.76	7.46	0.401	0.0	0.97	-97	12.80
MW-100	3/04/20	218.37	7.75	210.62	7.23	0.471	6.6	1.14	266	15.45
MW-101	3/04/20	218.54	7.90	210.64	7.34	0.531	0.0	2.29	267	16.14
MW-102	3/04/20	217.64	7.02	210.62	7.41	0.469	0.0	2.79	266	15.44
MW-103	3/04/20	216.51	6.15	210.36	7.33	0.322	0.0	3.16	259	15.56
PZ-1A	3/05/20	220.10	9.42	210.68	-	-	-	-	-	-
PZ-1B	3/05/20	220.05	9.27	210.78	-	-	-	-	-	-

Notes:
ft = feet
AMSL = Above Mean Sea Level
- = Not sampled or not recorded.
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 41
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)																
		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	8/19/2013	3/25/2013	8/13/2012	3/26/2012
MW-1	228.10	19.28	208.82	207.36	208.90	207.20	208.82	207.38	210.45	207.18	209.98	207.37	209.05	207.70	208.02	207.34	208.62	207.88	207.92
MW-3	219.61	9.11	210.50	207.96	210.44	207.01	210.50	206.98	211.56	207.44	211.03	207.76	210.24	208.27	209.78	207.77	210.16	208.38	211.30
MW-4	218.28	2.03	216.25	210.84	215.55	210.10	216.25	210.63	216.46	209.85	215.86	210.28	216.57	212.27	216.55	210.78	216.00	212.73	217.08
MW-5	217.08	10.55	206.53	201.28	206.63	201.26	206.53	200.71	207.75	200.41	206.59	200.08	205.95	200.93	207.27	200.88	206.53	202.23	208.66
MW-6	219.48	13.59	205.89	200.18	205.97	200.03	205.89	199.93	207.05	199.48	205.96	199.40	205.64	200.17	206.37	200.13	205.93	200.93	208.40
MW-7	216.85	1.45	215.40	208.10	214.85	207.75	215.40	208.02	215.68	206.90	215.61	206.39	215.25	209.84	215.41	208.50	215.05	210.95	NM
MW-8	220.23	7.72	212.51	208.71	212.45	207.25	212.51	207.98	213.73	207.61	213.34	207.78	213.13	209.28	213.01	208.25	212.81	209.75	213.78
MW-9	224.00	2.37	221.63	211.98	221.53	210.78	221.63	213.00	222.45	209.63	221.88	210.39	222.19	211.92	224.00	212.73	221.58	212.47	223.05
MW-10	225.41	2.20	223.21	213.57	222.68	213.60	223.21	214.15	223.56	212.28	223.18	213.76	223.71	215.79	224.91	214.95	223.09	217.36	224.16
MW-11	227.73	7.54	220.19	213.08	220.63	212.58	220.19	213.42	221.30	212.42	220.57	212.82	221.13	214.43	222.86	214.08	220.62	215.99	220.86
MW-13	223.31	10.28	213.03	209.66	212.90	207.96	213.03	208.01	214.51	208.58	214.19	209.26	213.23	209.65	210.99	209.44	213.23	210.19	213.28
MW-14	224.77	14.77	210.00	207.92	209.99	207.44	210.00	207.52	211.52	207.54	211.14	207.90	209.89	208.26	Repeat	207.77	209.61	208.42	NM
MW-15	222.96	12.33	210.63	207.94	210.37	206.24	210.63	206.51	211.65	207.41	211.08	207.71	210.53	208.31	210.01	207.93	210.41	208.58	211.41
MW-16	217.57	6.50	211.07	205.41	210.81	205.17	211.07	205.12	211.82	204.87	211.37	204.21	211.12	205.89	211.33	205.34	210.99	206.47	212.46
MW-17	218.84	8.27	210.57	207.91	210.49	206.42	210.57	206.74	211.66	207.41	211.39	207.64	213.46	208.28	210.10	207.76	210.34	208.48	211.41
MW-18	224.00	13.49	210.51	207.88	210.28	206.42	210.51	206.51	211.77	207.25	211.11	207.70	210.33	208.30	209.65	207.77	210.30	208.51	211.28
MW-19	224.20	13.90	210.30	207.53	210.20	206.22	210.30	206.65	212.00	206.93	210.63	207.18	210.30	208.09	209.96	207.87	210.00	208.23	211.06
MW-20	225.62	16.08	209.54	207.34	209.57	206.75	209.54	207.09	211.21	206.94	210.52	207.20	209.64	207.69	208.67	207.21	209.31	207.83	210.25
MW-21	216.60	6.07	210.53	204.78	210.45	204.43	210.53	204.26	211.25	203.82	210.60	203.67	210.35	204.69	210.46	204.41	210.15	205.51	NM
MW-22	216.57	6.45	210.12	204.50	210.17	204.25	210.12	204.02	210.98	203.50	210.31	203.31	210.08	204.65	210.37	204.09	209.92	205.15	211.69
MW-23	227.87	19.00	208.87	207.32	208.87	207.17	208.87	207.37	210.45	207.19	209.98	207.39	209.01	207.71	208.02	207.34	208.61	207.90	209.47
MW-24	227.49	18.55	208.94	207.29	208.89	207.13	208.94	207.34	210.70	207.17	209.87	207.28	209.21	207.54	208.28	207.22	208.79	207.83	214.64
MW-25	220.38	9.40	210.98	207.50	210.68	206.05	210.98	206.48	212.28	206.53	211.44	206.86	211.41	207.86	211.43	207.16	211.40	208.40	212.52
MW-26	220.63	11.55	209.08	208.09	209.16	207.58	209.08	207.51	210.85	206.88	210.46	207.73	209.72	208.36	208.60	207.63	209.47	208.26	210.51
MW-27	222.80	9.18	213.62	209.95	213.78	208.57	213.62	209.02	214.55	208.48	214.05	208.94	213.75	210.35	214.17	208.85	213.67	211.62	211.29
MW-28	223.52	4.05	219.47	218.06	219.45	217.40	219.47	217.55	220.32	216.91	219.92	217.37	220.82	218.06	222.92	212.92	220.00	217.72	220.65
MW-29	217.93	7.50	210.43	207.60	210.31	206.03	210.43	205.38	211.63	206.93	210.98	207.75	210.91	208.46	209.95	207.74	210.35	208.49	210.80
MW-30	219.26	12.42	206.84	201.48	206.75	202.16	206.84	201.68	207.76	200.55	206.88	200.34	206.29	201.19	206.95	201.07	206.42	202.22	208.70
MW-31	216.78	10.02	206.76	201.09	206.78	201.34	206.76	200.66	207.80	200.51	206.81	200.42	206.38	201.24	206.97	201.31	206.83	202.47	208.89
MW-100	218.37	7.75	210.62	207.82	210.49	206.47	210.62	207.02	211.69	207.06	210.95	207.62	210.51	208.13	210.56	207.67	210.28	208.39	211.22
MW-101	218.54	7.90	210.64	207.72	210.46	206.14	210.64	206.84	211.72	206.58	210.92	207.53	210.54	208.07	210.67	207.61	210.35	208.29	211.29
MW-102	217.64	7.02	210.62	207.79	210.47	206.76	210.62	207.16	211.66	207.29	210.92	207.56	210.48	208.04	210.68	207.63	210.33	208.32	211.25
MW-103	216.51	6.15	210.36	207.73	210.16	-	NM	207.33	211.21	207.28	210.86	207.51	210.24	207.96	210.61	207.50	210.05	208.09	210.95
PZ-1A	220.10	9.42	210.68	207.95	210.37	206.30	210.68	207.00	211.78	207.48	207.09	207.64	197.05	208.29	210.55	207.44	210.30	211.43	211.43
PZ-1B	220.05	9.27	210.78	207.86	210.40	206.41	210.78	207.13	211.87	207.68	207.13	207.68	197.00	207.99	210.60	207.71	210.37	211.46	211.46

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 41
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)																	
		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	02/21/05	10/04/04	05/10/04	02/23/04
MW-1	228.10	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	207.72	206.75	208.10	208.34
MW-3	219.61	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	208.98	207.32	209.04	209.96
MW-4	218.28	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	215.54	212.63	214.85	216.04
MW-5	217.08	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	204.59	201.35	204.23	206.58
MW-6	219.48	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	202.38	198.12	202.07	205.00
MW-7	216.85	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	213.52	209.17	213.13	214.84
MW-8	220.23	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	218.38	217.42	218.22	218.99
MW-9	224.00	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	210.34	207.80	210.12	210.83
MW-10	225.41	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	220.93	214.05	220.39	222.30
MW-11	227.73	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	218.89	213.83	219.37	221.25
MW-13	223.31	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	211.51	209.34	211.01	212.22
MW-14	224.77	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	208.58	207.24	208.89	209.51
MW-15	222.96	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	209.08	NA	NA	NA
MW-16	217.57	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	209.21	NA	NA	NA
MW-17	218.84	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	209.07	NA	NA	NA
MW-18	224.00	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	NA	NA	NA	NA
MW-19	224.20	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	NA	NA	NA	NA
MW-20	225.62	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	NA	NA	NA	NA
MW-21	216.60	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	NA	NA	NA	NA
MW-22	216.57	205.64	211.55	205.16	209.87	204.04	209.98	204.19	209.53	205.52	206.41	NA	NA	NA	NA	NA	NA	NA	NA
MW-23	227.87	207.92	209.53	207.96	208.92	207.09	207.98	206.85	208.73	206.96	208.17	NA	NA	NA	NA	NA	NA	NA	NA
MW-24	227.49	208.04	209.87	207.87	209.04	206.99	208.18	206.88	208.88	207.11	208.22	NA	NA	NA	NA	NA	NA	NA	NA
MW-25	220.38	208.45	212.32	207.93	211.45	207.03	214.23	207.80	211.51	209.10	209.33	NA	NA	NA	NA	NA	NA	NA	NA
MW-26	220.63	208.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	209.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	217.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	206.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	203.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	202.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	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	NA	NA	NA	NA
MW-101	218.54	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	NA	NA	NA	NA
MW-102	217.64	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	NA	NA	NA	NA
MW-103	216.51	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	NA	NA	NA	NA
PZ-1A	220.10	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	NA	NA	NA	NA
PZ-1B	220.05	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	NA	NA	NA	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 41
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)						
		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	206.21	206.99	208.75	207.64	206.17	207.40	206.55
MW-3	219.61	206.34	207.00	209.57	209.20	206.04	207.67	207.49
MW-4	218.28	211.68	209.86	214.41	214.52	209.65	211.38	213.88
MW-5	217.08	200.48	199.92	204.78	205.51	199.87	201.17	203.34
MW-6	219.48	197.44	197.46	202.79	204.22	197.44	199.17	200.96
MW-7	216.85	206.67	206.88	212.73	213.52	205.46	207.00	212.29
MW-8	220.23	218.52	216.93	218.19	218.82	217.05	217.26	219.53
MW-9	224.00	207.20	207.37	209.57	209.16	206.36	207.80	208.07
MW-10	225.41	214.16	214.44	220.34	220.23	209.61	215.77	221.83
MW-11	227.73	215.53	216.84	220.23	221.03	211.85	216.85	219.85
MW-13	223.31	205.31	208.43	211.82	211.30	207.84	209.08	210.50
MW-14	224.77	206.53	207.35	209.62	208.66	206.43	207.87	207.12
MW-15	222.96	NA	NA	NA	NA	NA	NA	NA
MW-16	217.57	NA	NA	NA	NA	NA	NA	NA
MW-17	218.84	NA	NA	NA	NA	NA	NA	NA
MW-18	224.00	NA	NA	NA	NA	NA	NA	NA
MW-19	224.20	NA	NA	NA	NA	NA	NA	NA
MW-20	225.62	NA	NA	NA	NA	NA	NA	NA
MW-21	216.60	NA	NA	NA	NA	NA	NA	NA
MW-22	216.57	NA	NA	NA	NA	NA	NA	NA
MW-23	227.87	NA	NA	NA	NA	NA	NA	NA
MW-24	227.49	NA	NA	NA	NA	NA	NA	NA
MW-25	220.38	NA	NA	NA	NA	NA	NA	NA
MW-26	220.63	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	NA	NA	NA	NA	NA	NA	NA
MW-101	218.54	NA	NA	NA	NA	NA	NA	NA
MW-102	217.64	NA	NA	NA	NA	NA	NA	NA
MW-103	216.51	NA	NA	NA	NA	NA	NA	NA
PZ-1A	220.10	NA	NA	NA	NA	NA	NA	NA
PZ-1B	220.05	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 41
NETL Albany, Albany, OR

Horizontal Gradient Locations	Aquifer Zone Screened	Elevation (ft AMSL)	Elevation Difference	Horizontal Distance	Gradient
MW-10 to MW-11					
MW-10	Perched	223.21	3.02	500.9	6.03E-03
MW-11		220.19			
MW-10 to MW-8					
MW-10	Perched	223.21	10.70	744.9	1.44E-02
MW-8		212.51			
MW-10 to MW-4					
MW-10	Perched	223.21	6.96	1205.8	5.77E-03
MW-4		216.25			
MW-28 to MW-8					
MW-28	Perched	219.47	6.96	289.4	2.40E-02
MW-8		212.51			
MW-16 to MW-6					
MW-16	Gravel	211.07	5.18	463.6	1.12E-02
MW-6		205.89			
MW-16 to MW-31					
MW-16	Gravel - Silt/Gravel	211.07	4.31	661.4	6.52E-03
MW-31		206.76			
MW-23 to MW-24					
MW-23	Gravel	208.87	-0.07	321.5	-2.18E-04
MW-24		208.94			
MW-25 to MW-23					
MW-25	Gravel	210.98	2.11	1320.8	1.60E-03
MW-23		208.87			

Notes:

ft AMSL = Feet Above Mean Sea Level

Table 5
Detection Summary

Groundwater Monitoring Event 41
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	10/31	9/31	2200	MW-20	0.40 J
Chloroform	0.19	9/31	9/31	240	MW-18	0.89 J
cis-1,2-Dichloroethene	3.6	5/31	1/31	6.2	MW-30	1.1 J
Tetrachloroethene (PCE)	4.1	3/31	2/31	120	MW-18	1.2 J
trans-1,2-Dichloroethene	36	1/31	0/31	0.56 J	MW-30	0.56 J
Trichloroethene (TCE)	0.28	10/31	10/31	1200	MW-15	1.1 J

Notes:

µg/L = micrograms per Liter

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

* = 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 41
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Volatile Organic Concentrations							
			Benzene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Naphthalene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
MW-3	MW3-030220	3/02/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-4	MW4-030320	3/03/20	0.53 U	**0.56 J**	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-5	MW5-030420	3/04/20	0.53 U	0.30 U	**0.89 J**	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-6	MW6-030420	3/04/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-7	MW7-030520	3/05/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-8	MW8-030320	3/03/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-9	MW9-030320	3/03/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-10	MW10-030320	3/03/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-11	MW11-030520	3/05/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-13	MW13-030220	3/02/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-14	MW14-030220	3/02/20	0.53 U	**0.40 J**	**2.0 J**	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-15	MW15-030520	3/05/20	0.53 U	**7.2**	**3.9 J**	**1.6 J**	0.93 U	0.41 U	0.39 U	**1200**
MW-16	MW16-050320	3/05/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-17	MW17-030220	3/02/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	**1.2 J**
MW-18	MW18-030420	3/04/20	0.53 U	**1600 E**	**240**	**2.0 J**	0.93 U	**120**	0.39 U	**150**
MW-19	MW19-030320	3/03/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-20	MW20-030320	3/03/20	0.53 U	**2200**	**220 J**	0.69 U	0.93 U	**11**	0.39 U	**270**
MW-22	MW22-030220	3/02/20	0.53 U	**16**	**2.7 J**	**2.1 J**	0.93 U	**1.2 J**	0.39 U	**7.8**
MW-23	MW23-030220	3/02/20	0.53 U	**3.4**	**3.9 J**	0.69 U	0.93 U	0.41 U	0.39 U	**2.1 J**
MW-24	MW24-030520	3/05/20	0.53 U	**130**	**15**	0.69 U	0.93 U	0.41 U	0.39 U	**62**
MW-25	MW25-030320	3/03/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-26	MW26-030220	3/02/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-27	MW27-030520	3/05/20	0.53 U	**70**	**16**	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-28	MW28-030420	3/04/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-29	MW29-030320	3/03/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-30	MW30-030420	3/04/20	0.53 U	0.30 U	0.50 U	**6.2**	0.93 U	0.41 U	**0.56 J**	0.85 U
MW-31	MW31-030420	3/04/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
MW-100	MW100-030420	3/04/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	**1.1 J**
MW-101	MW101-030420	3/04/20	0.53 U	0.30 U	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	**1.2 J**
MW-102	MW102-030420	3/04/20	0.53 U	0.30 U	0.50 U	**1.1 J**	0.93 U	0.41 U	0.39 U	**26**
MW-103	MW103-030420	3/04/20	0.53 U	**0.46 J**	0.50 U	0.69 U	0.93 U	0.41 U	0.39 U	0.85 U
Minimum Applicable Screening Criteria			**0.39**	**0.41**	**0.19**	**3.6**	**0.14**	**4.1**	**36**	**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 = Result exceeded calibration range
B = Analyte was found in the blank and sample
NS = Not Sampled
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 41
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.

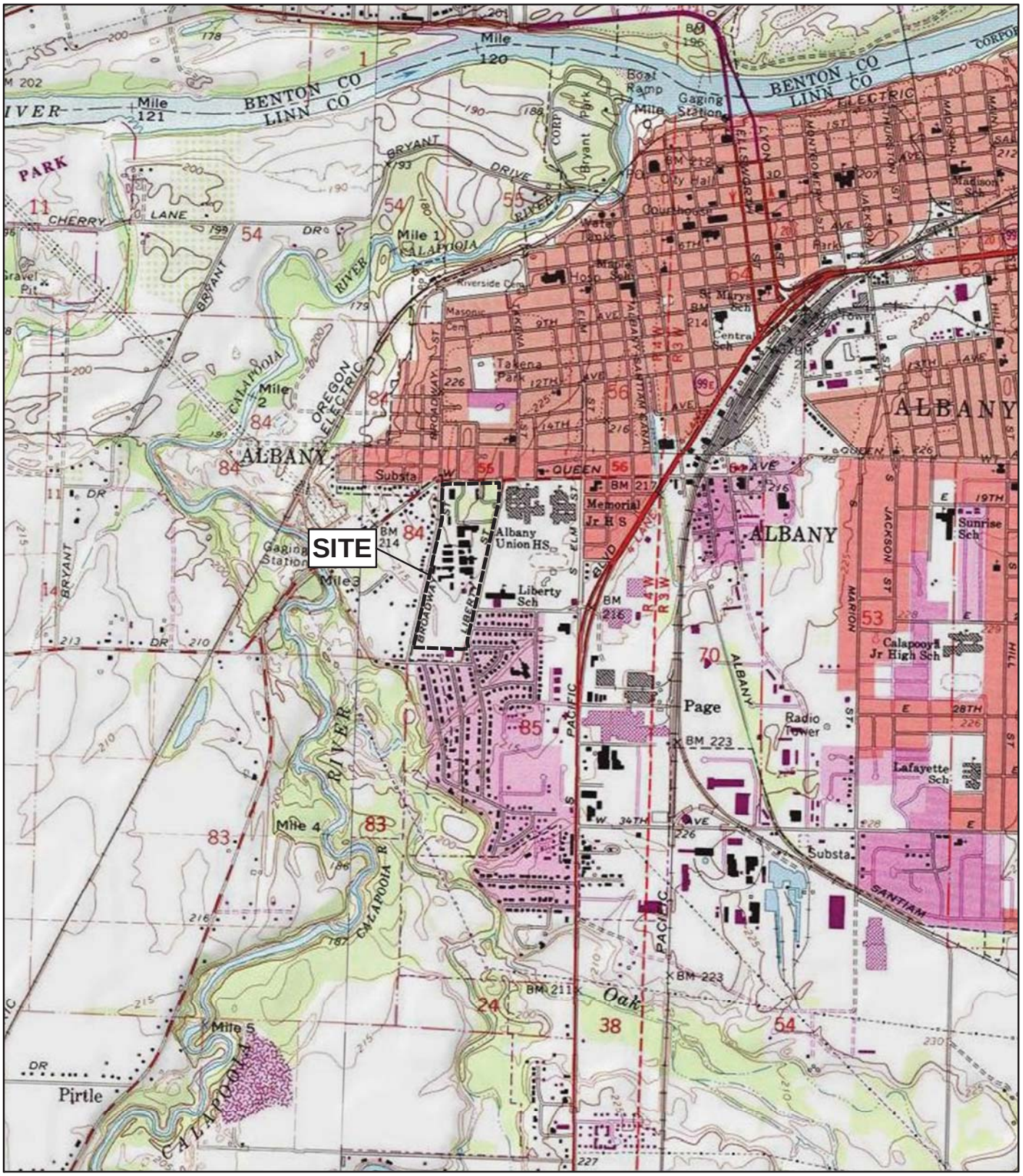
2 The Oregon Hot Spot Tables are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are revised to reflect Oregon DEQ hierarchy (MCL/MML, RBC, then EPA Regional Screening Levels for Regions 3, 6 and 9). Hot Spot values were 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 2020

FIGURE 1

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



Sources: NAIP, 2012.
Albany GIS, 2007.

150 75 0 150 300
Feet

SITE MAP

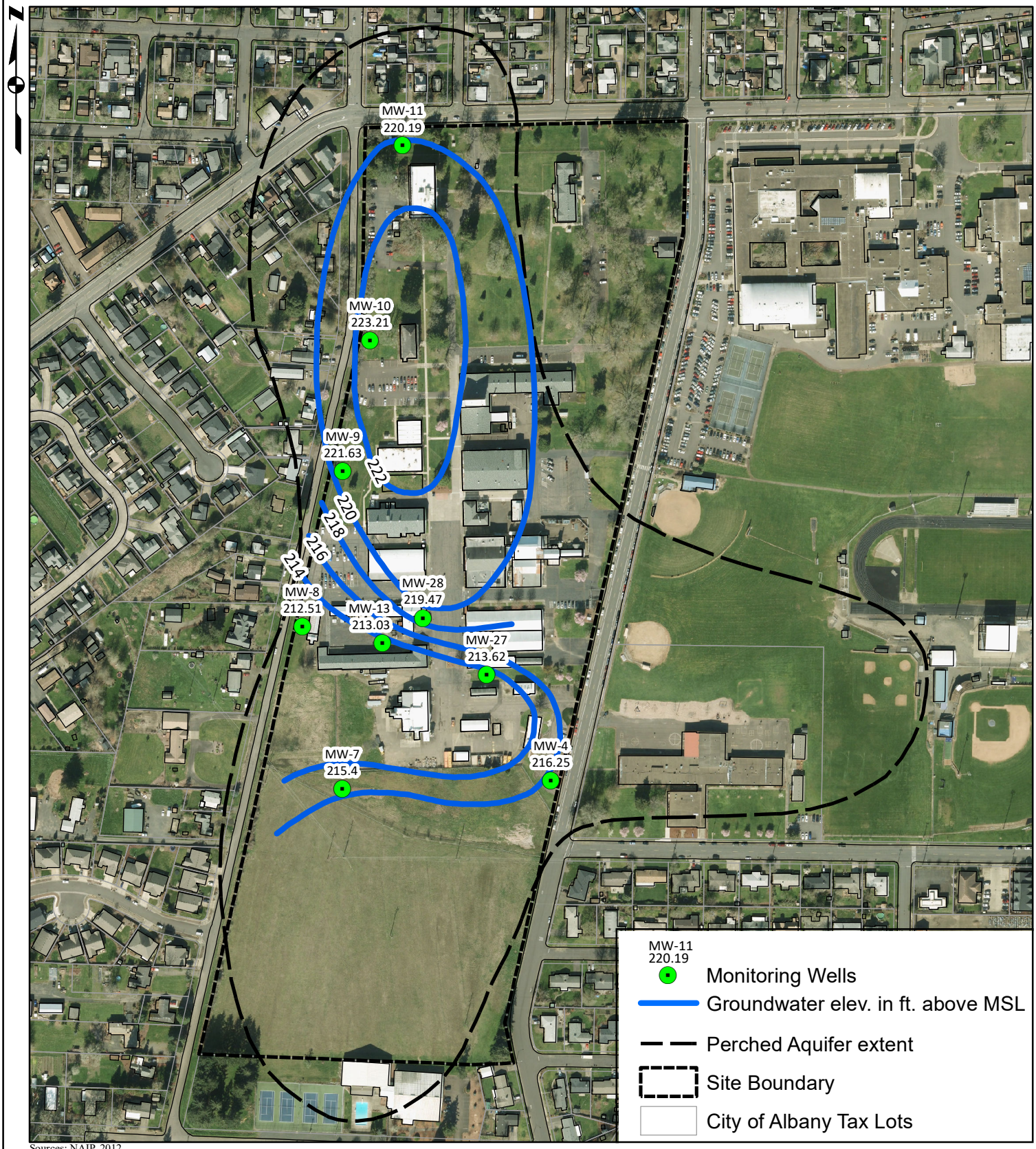
NETL ALBANY

GROUNDWATER SAMPLING

ALBANY, OREGON

March 2020

FIGURE 2



Sources: NAIP, 2012.
Albany GIS, 2007.

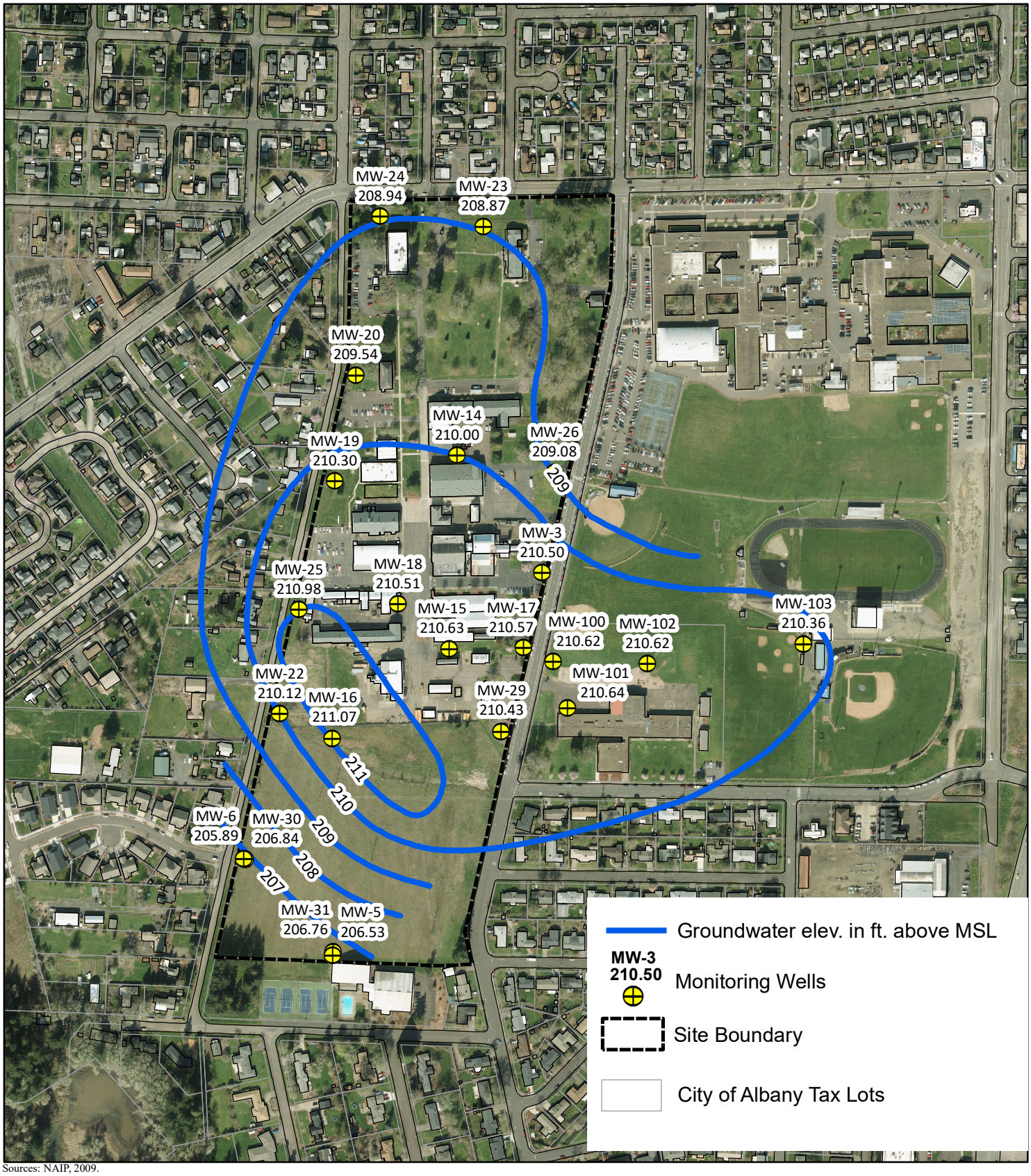
150 75 0 150 300
Feet

GROUNDWATER ELEVATION CONTOURS IN THE PERCHED AQUIFER, MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 3



Sources: NAIP, 2009.
Albany GIS, 2007.

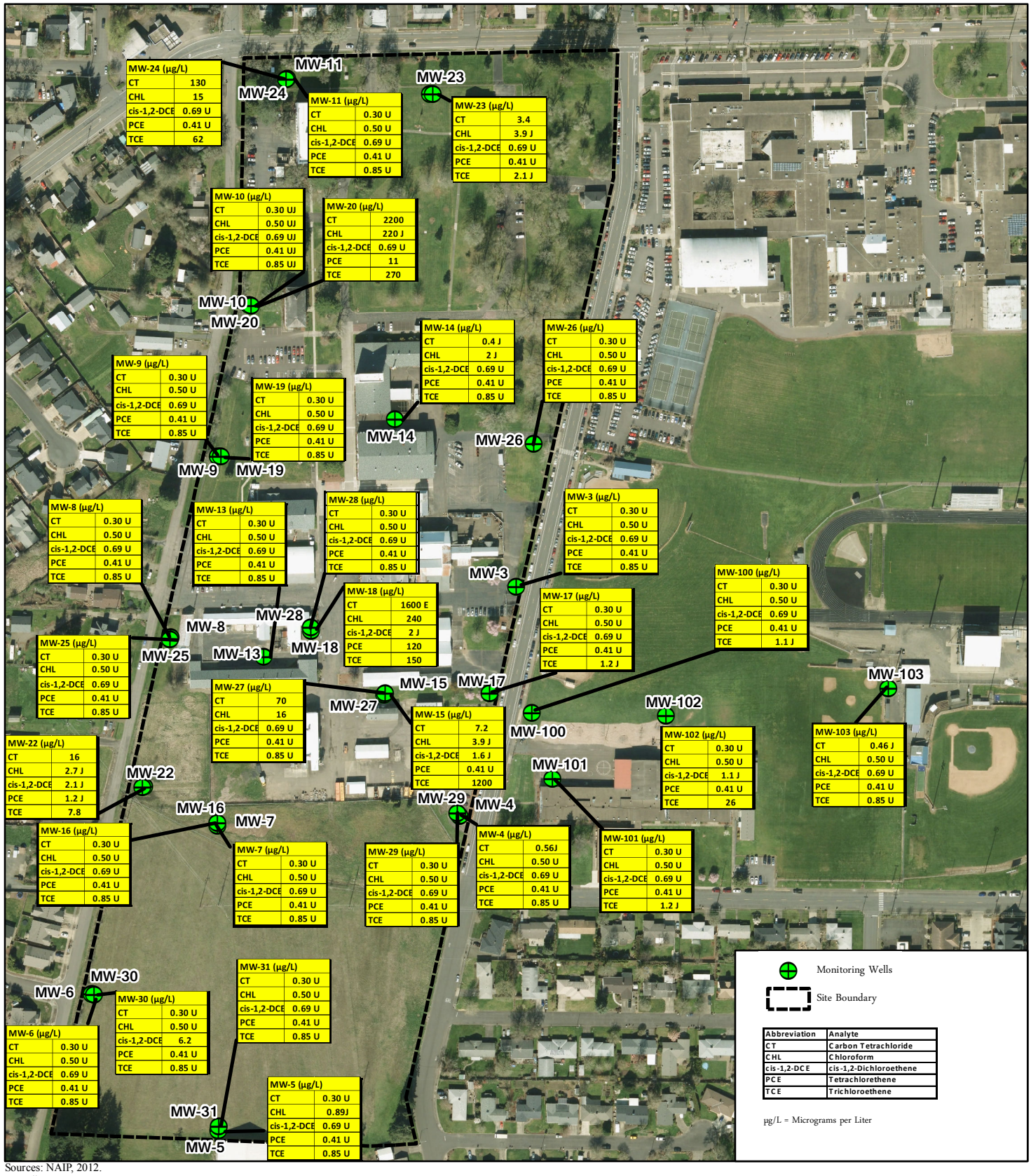
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Feet

GROUNDWATER ELEVATION CONTOURS IN THE GRAVEL AQUIFER, MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 4



Sources: NAIP, 2012.
Albany GIS, 2007.

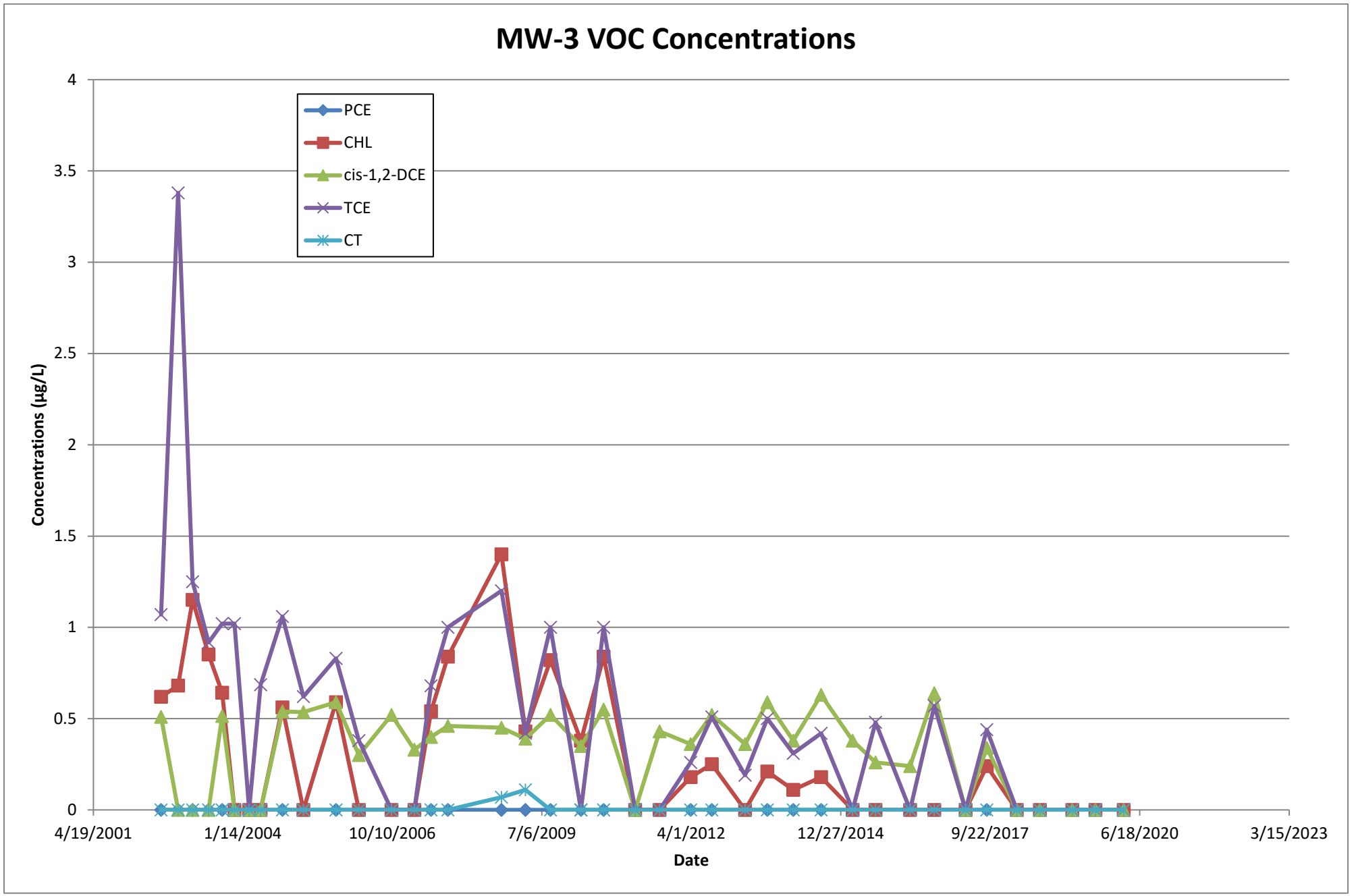
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Feet

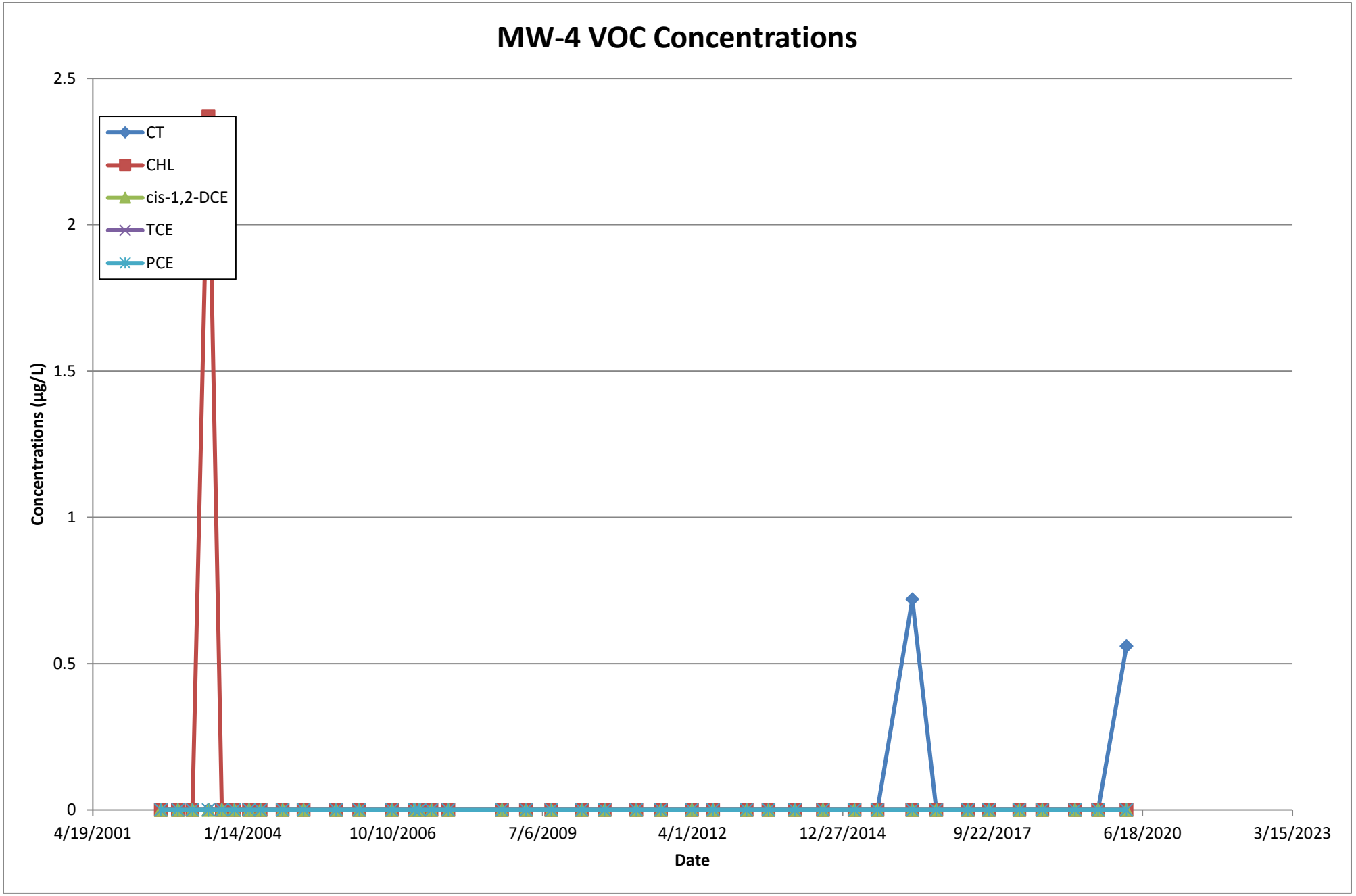
GROUNDWATER ANALYTICAL RESULTS MARCH 2020

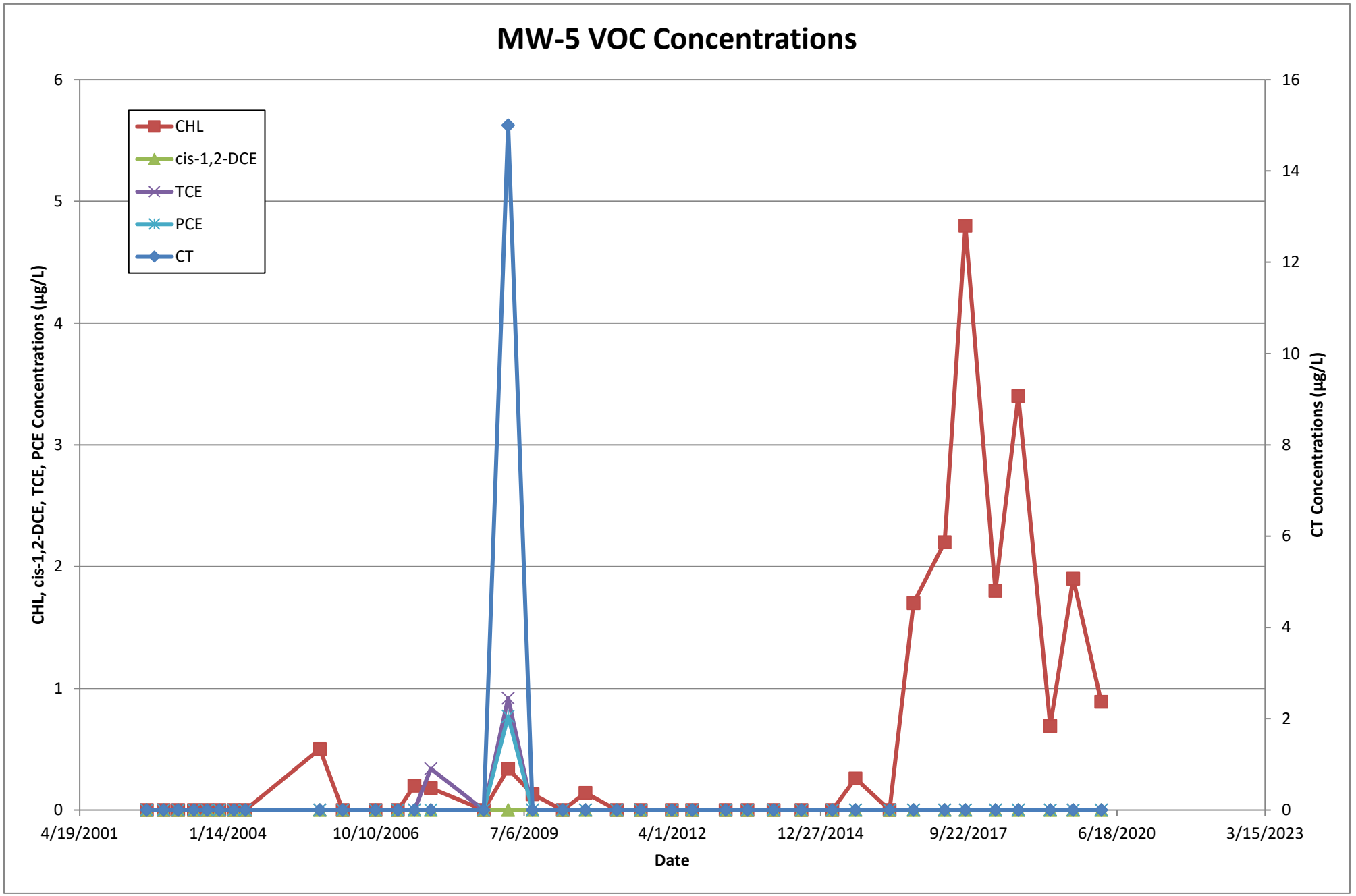
NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

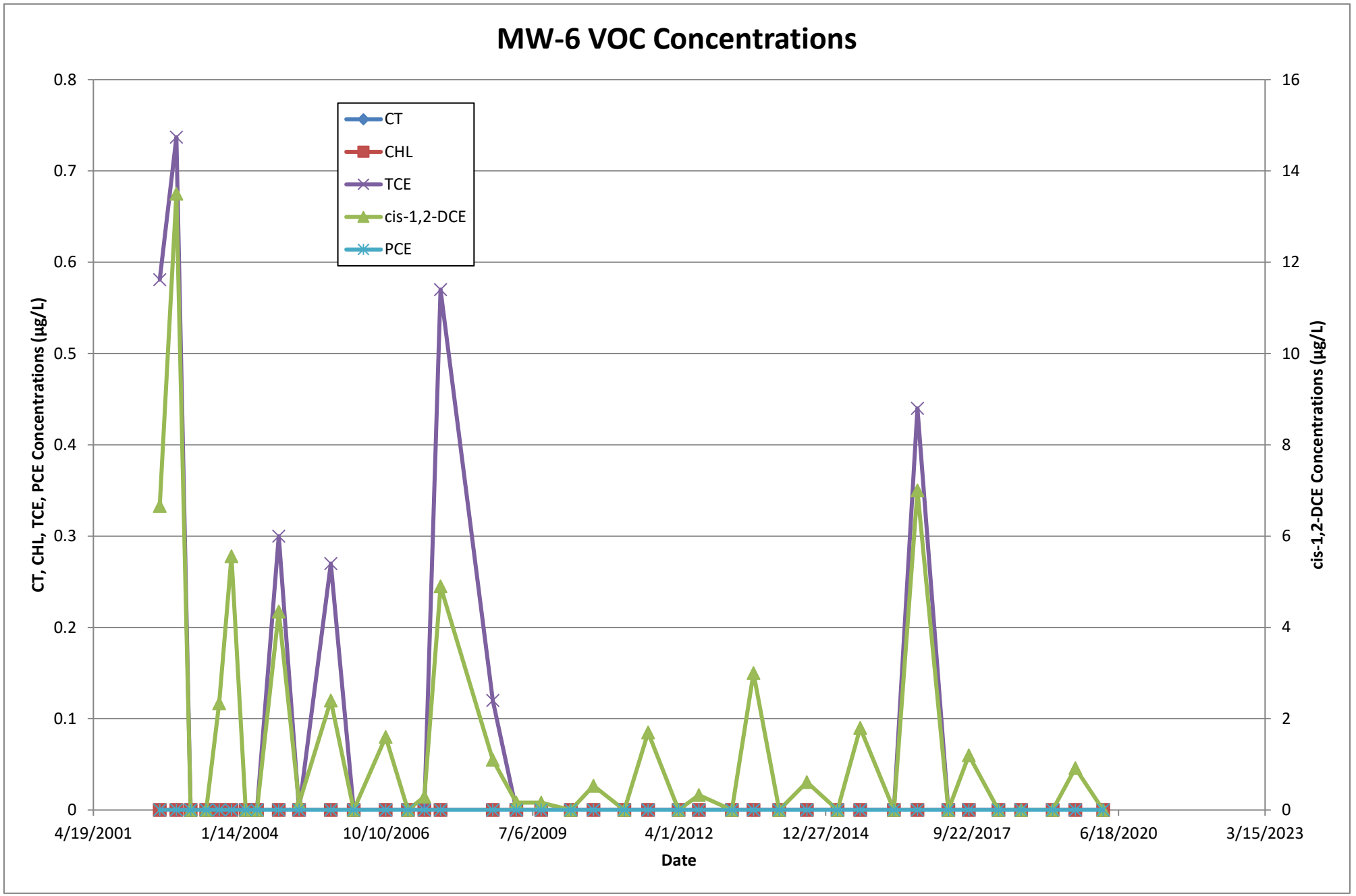
FIGURE 5

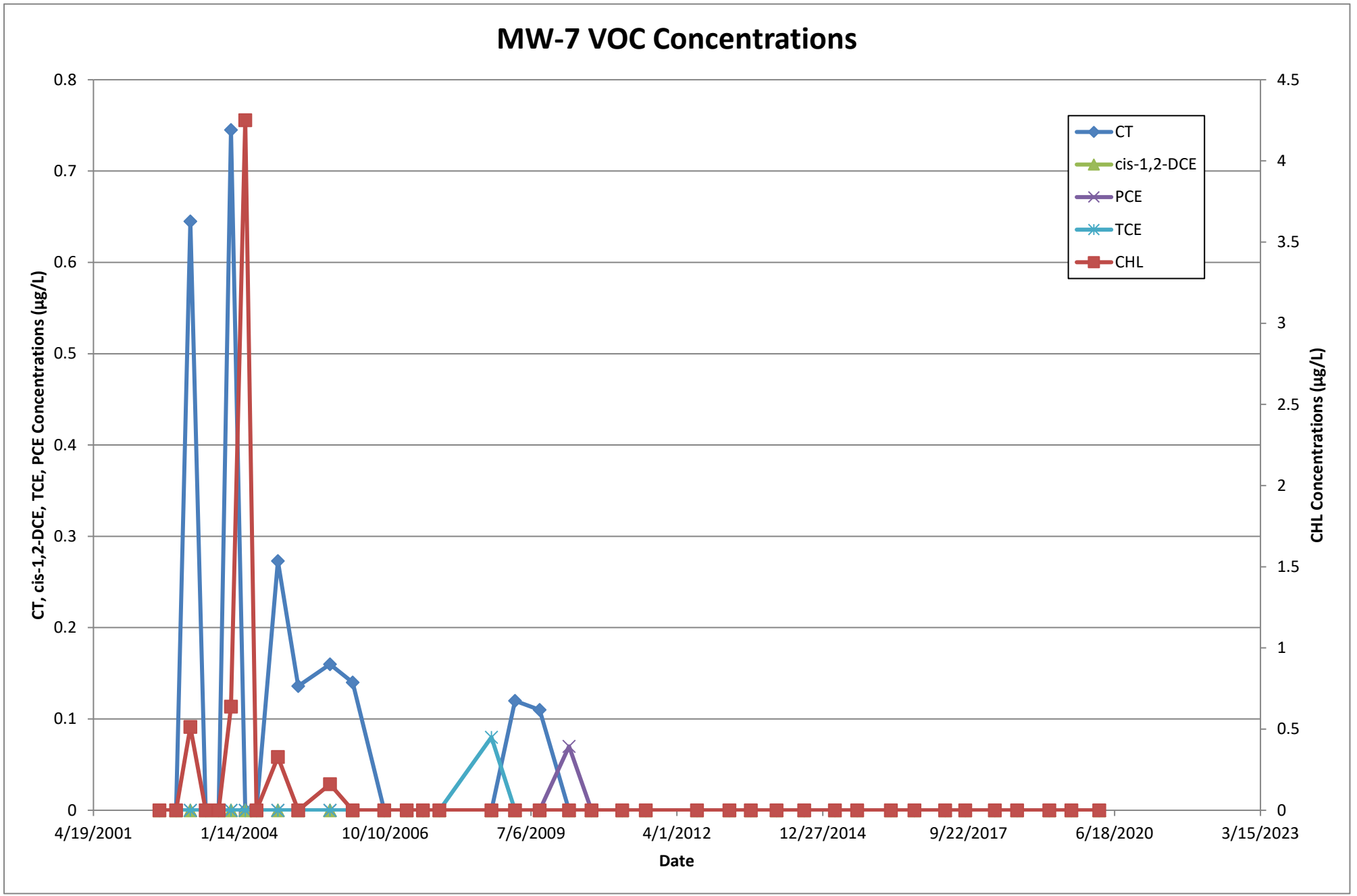
Figure 6 VOC Trend Charts

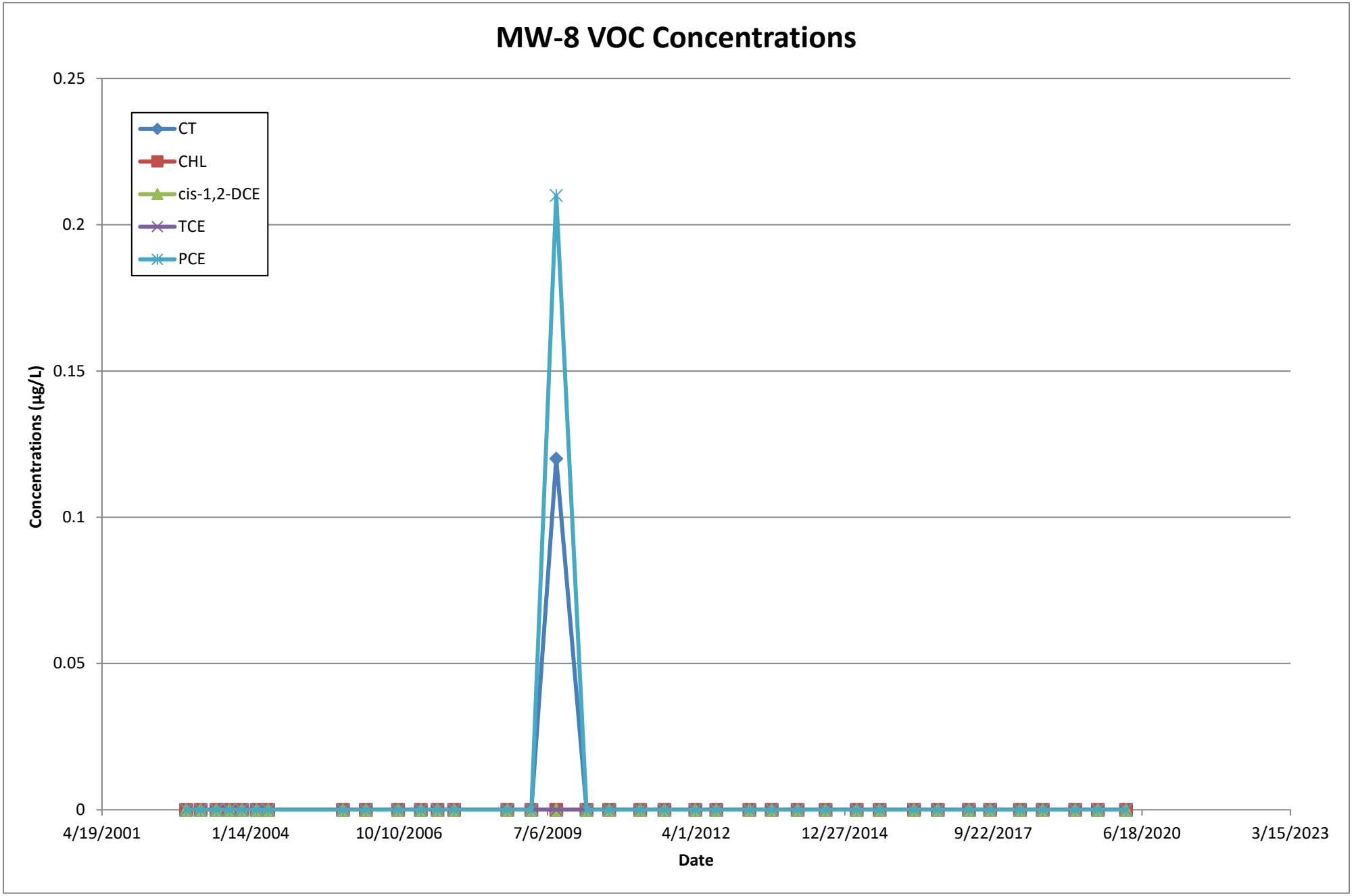

MW-3 VOC Concentrations
PCE
CHL
cis-1,2-DCE
TCE
CT
Concentrations (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

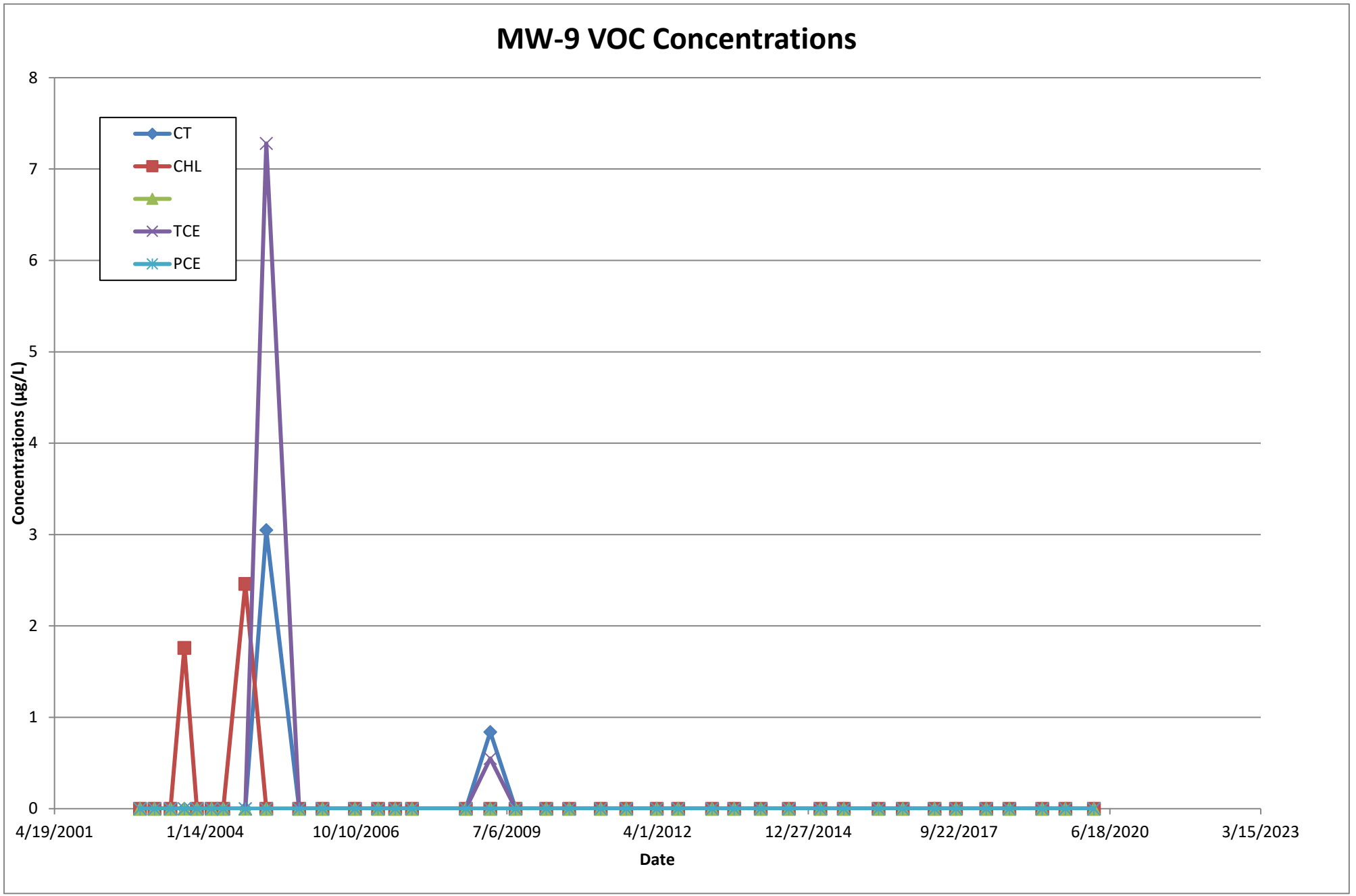

MW-4 VOC Concentrations
2.5
2
1.5
1
0.5
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

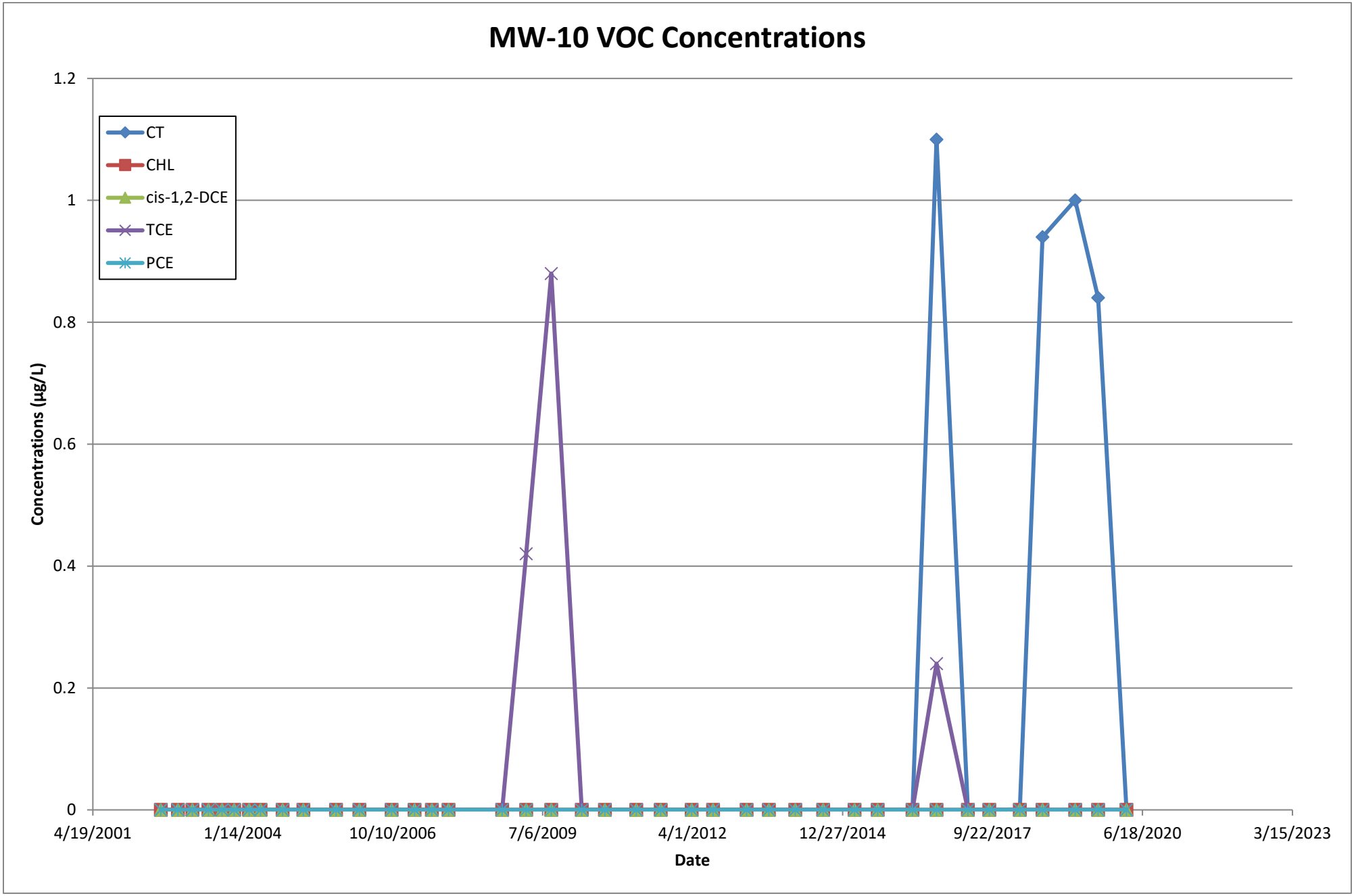

MW-5 VOC Concentrations
CHL
cis-1,2-DCE
TCE
PCE
CT
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14
16
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

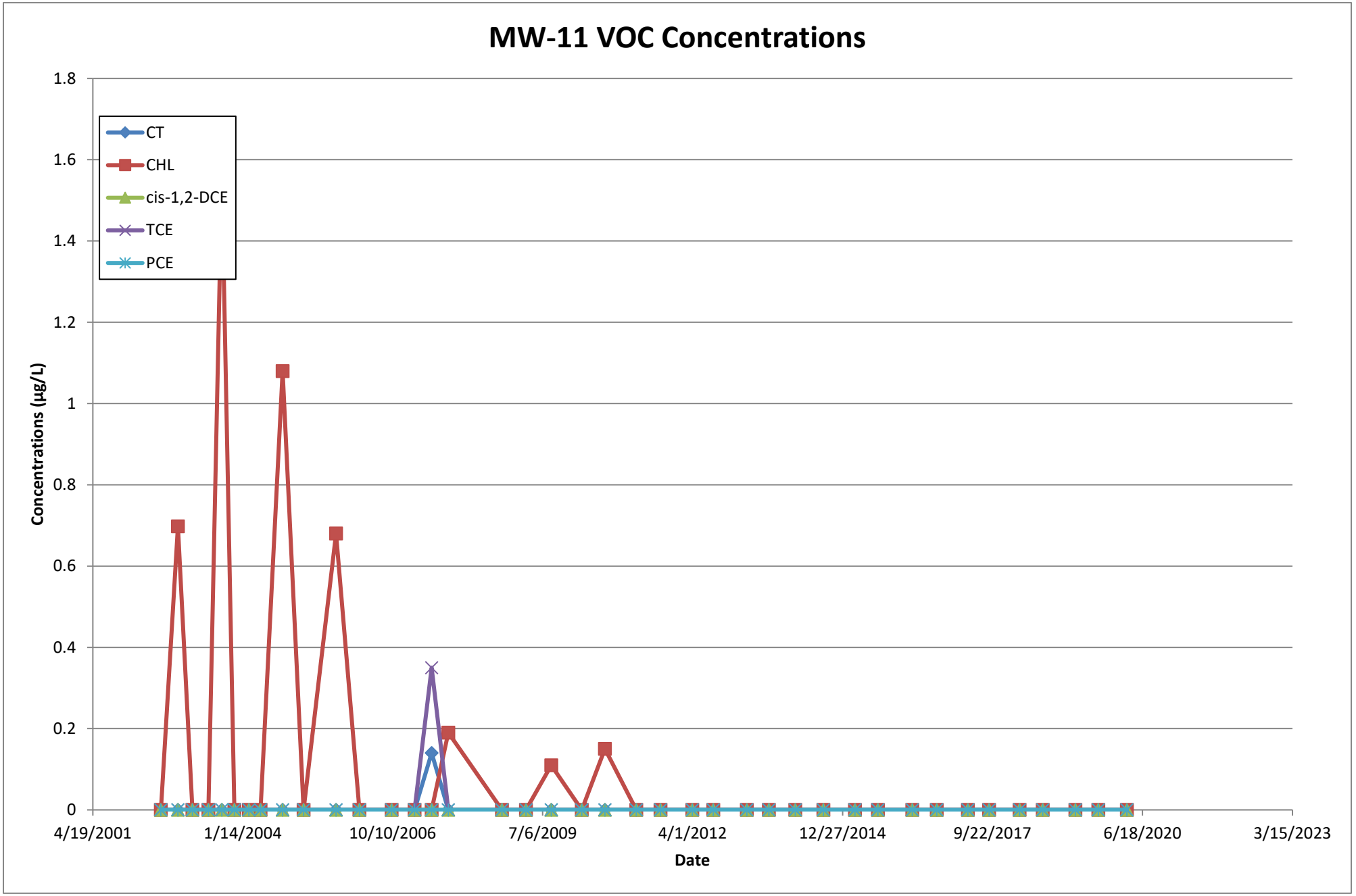

MW-6 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE, PCE Concentrations (µg/L)
cis-1,2-DCE Concentrations (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
16
14
12
10
8
6
4
2
0
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

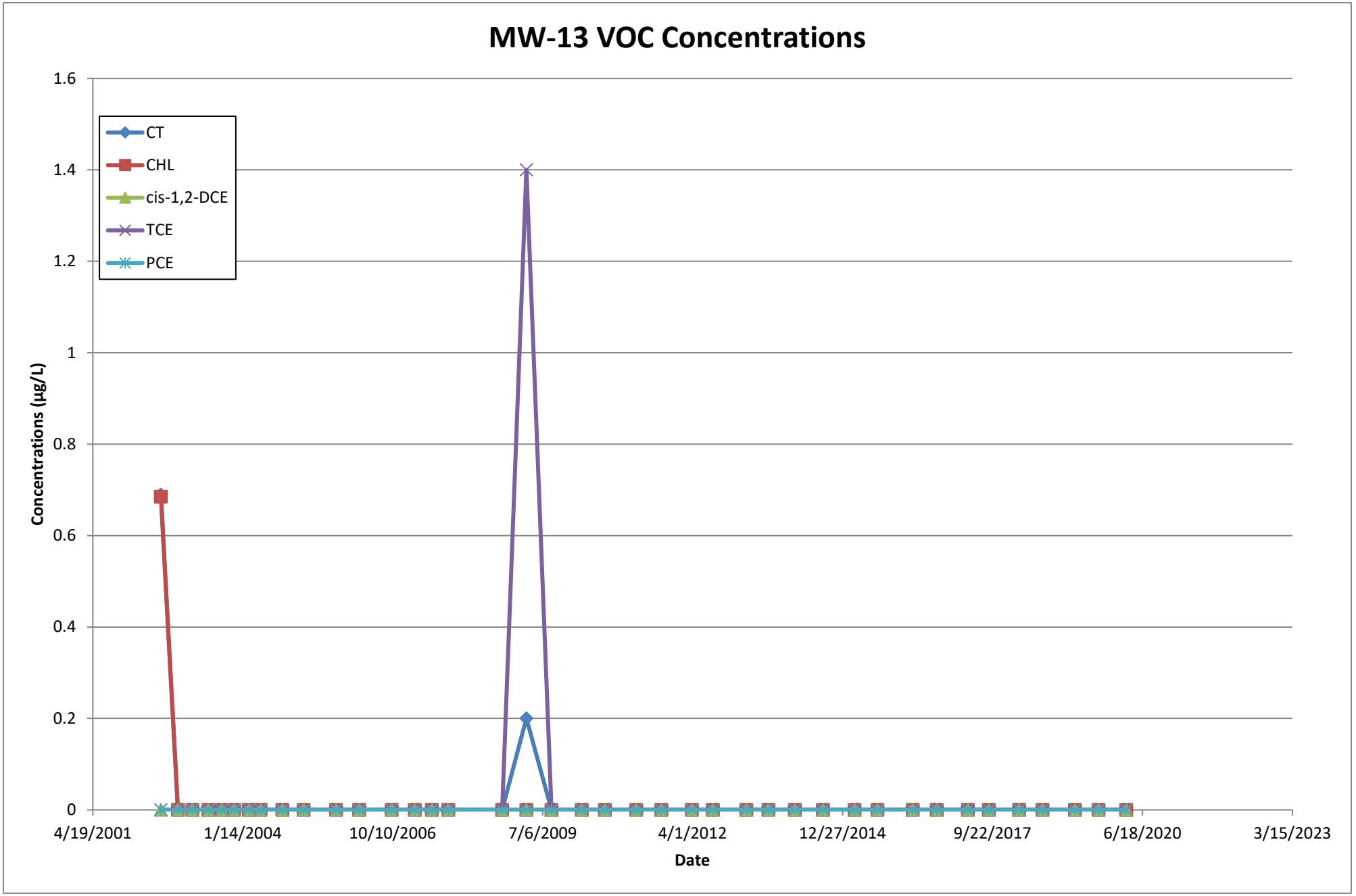

MW-7 VOC Concentrations
CT
cis-1,2-DCE
PCE
TCE
CHL
CT, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CHL Concentrations (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

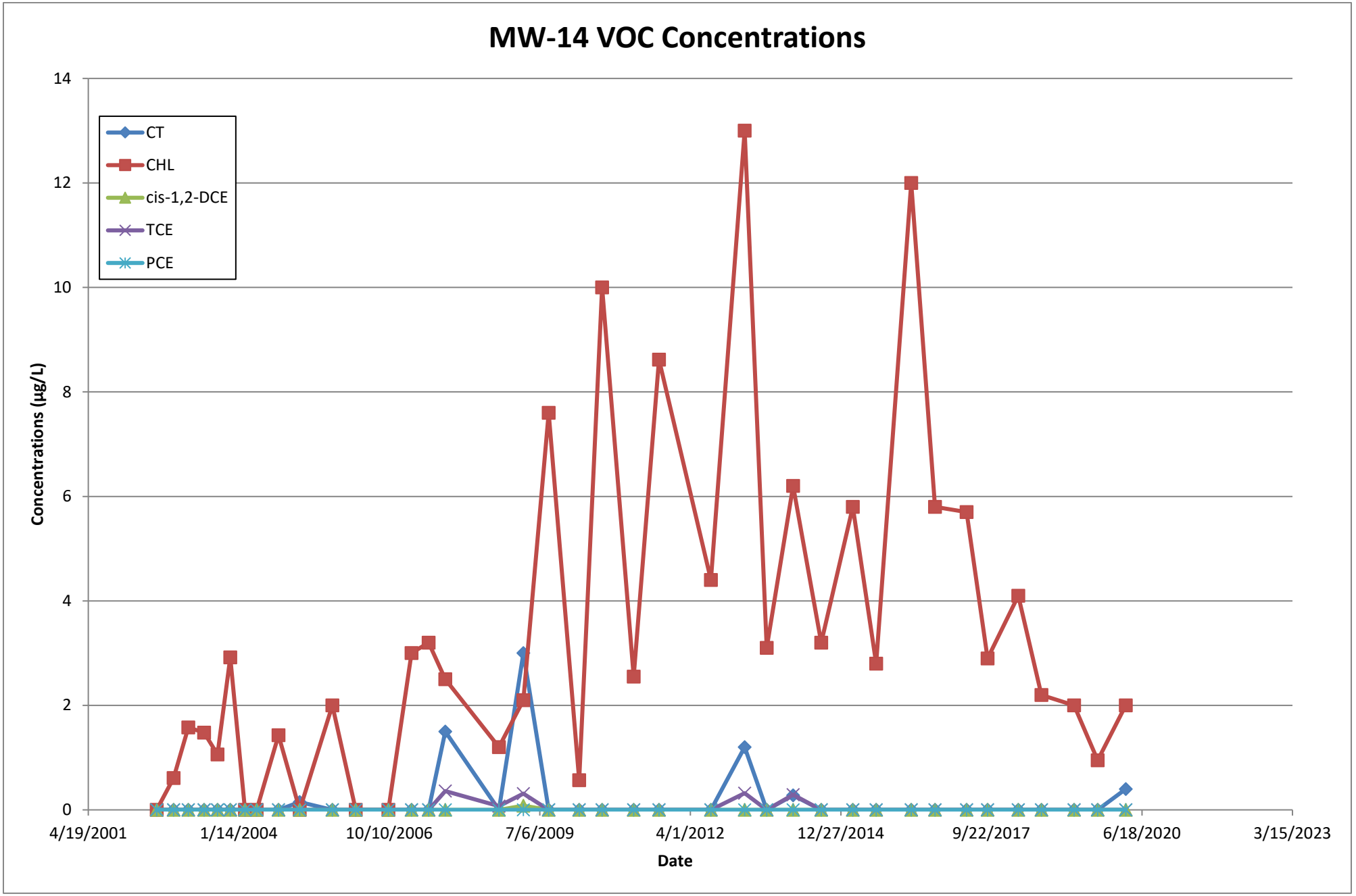

MW-8 VOC Concentrations
0.25
0.2
0.15
0.1
0.05
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

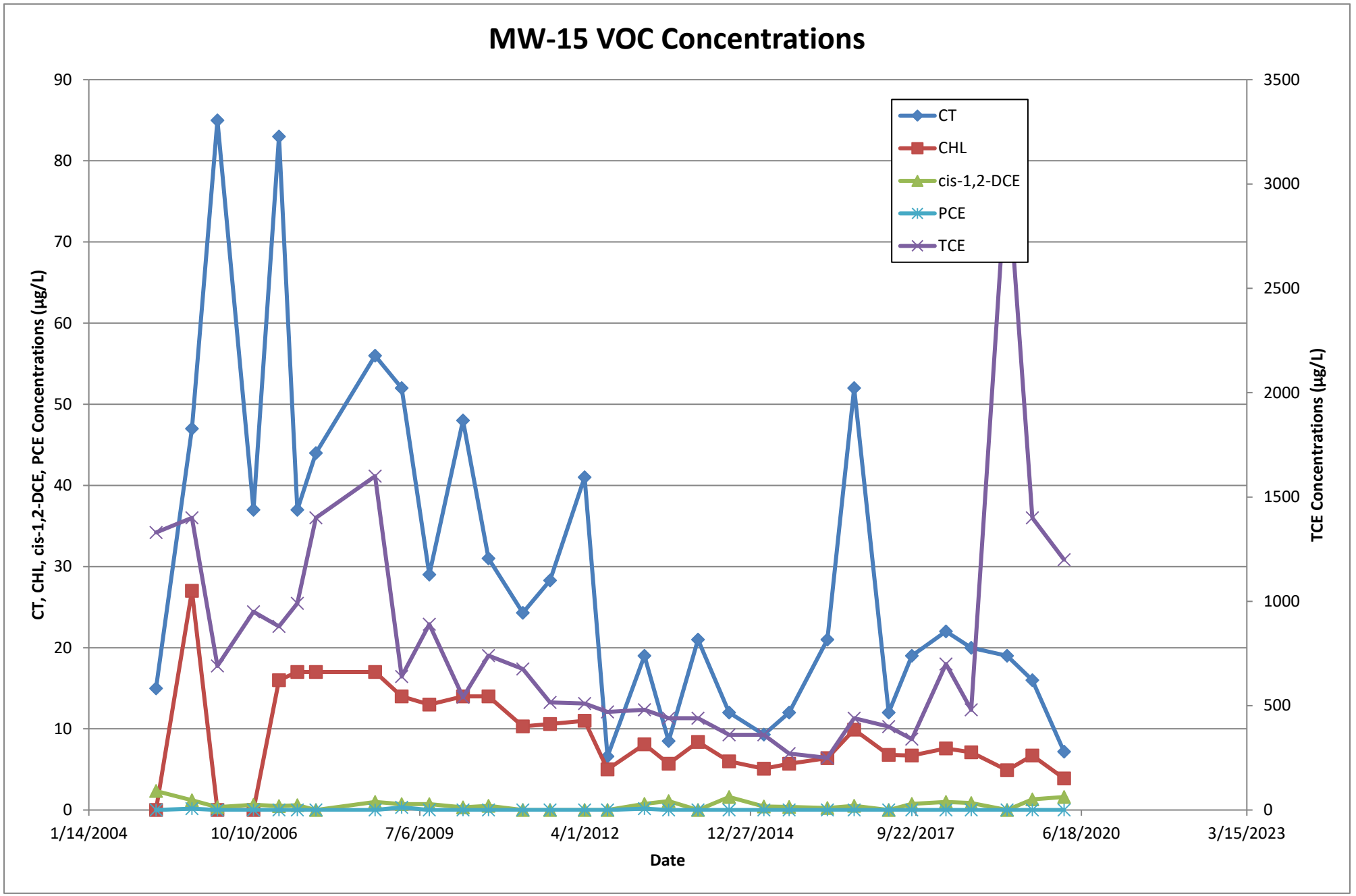

MW-9 VOC Concentrations
CT
CHL
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

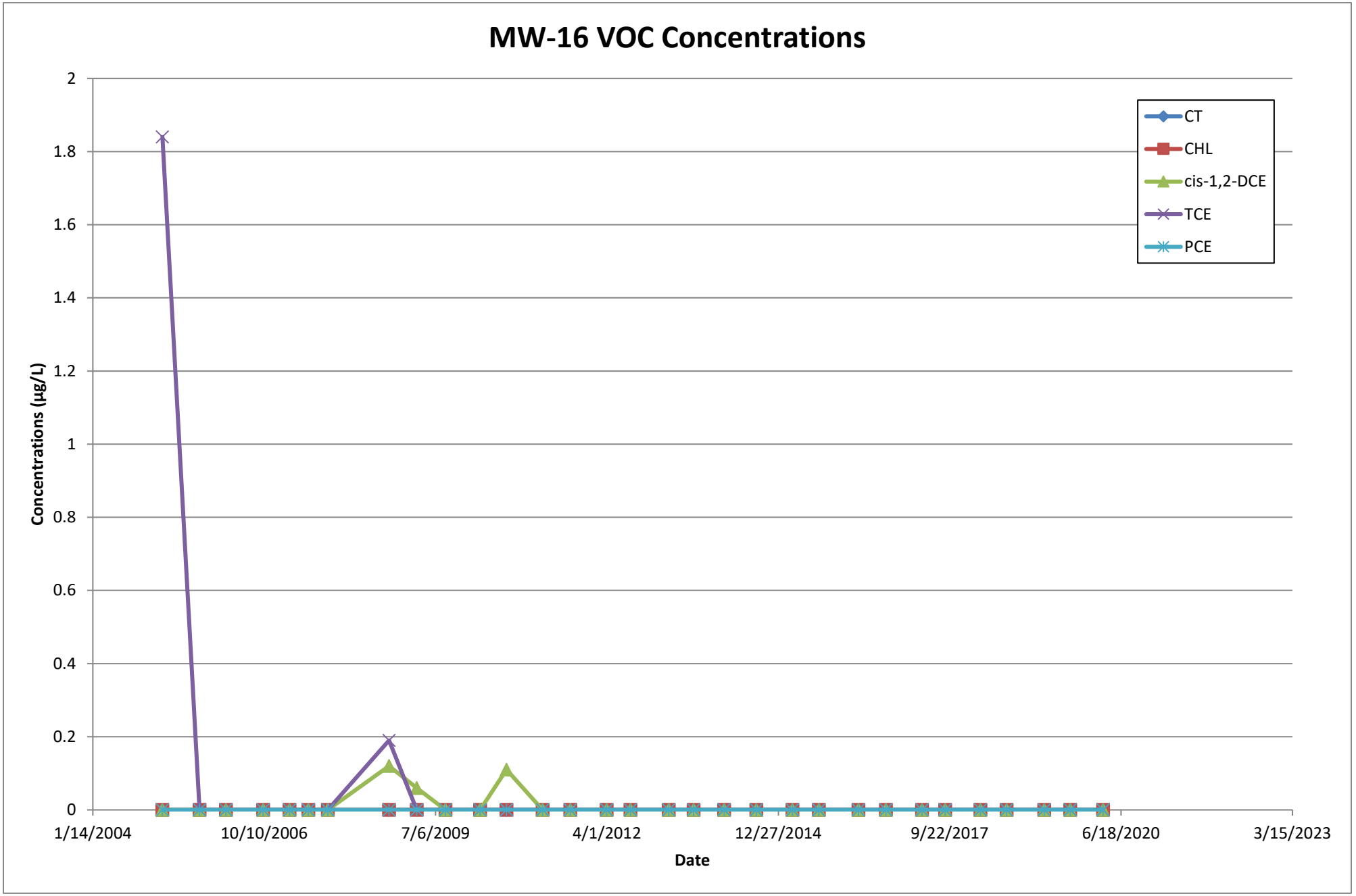

MW-10 VOC Concentrations
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

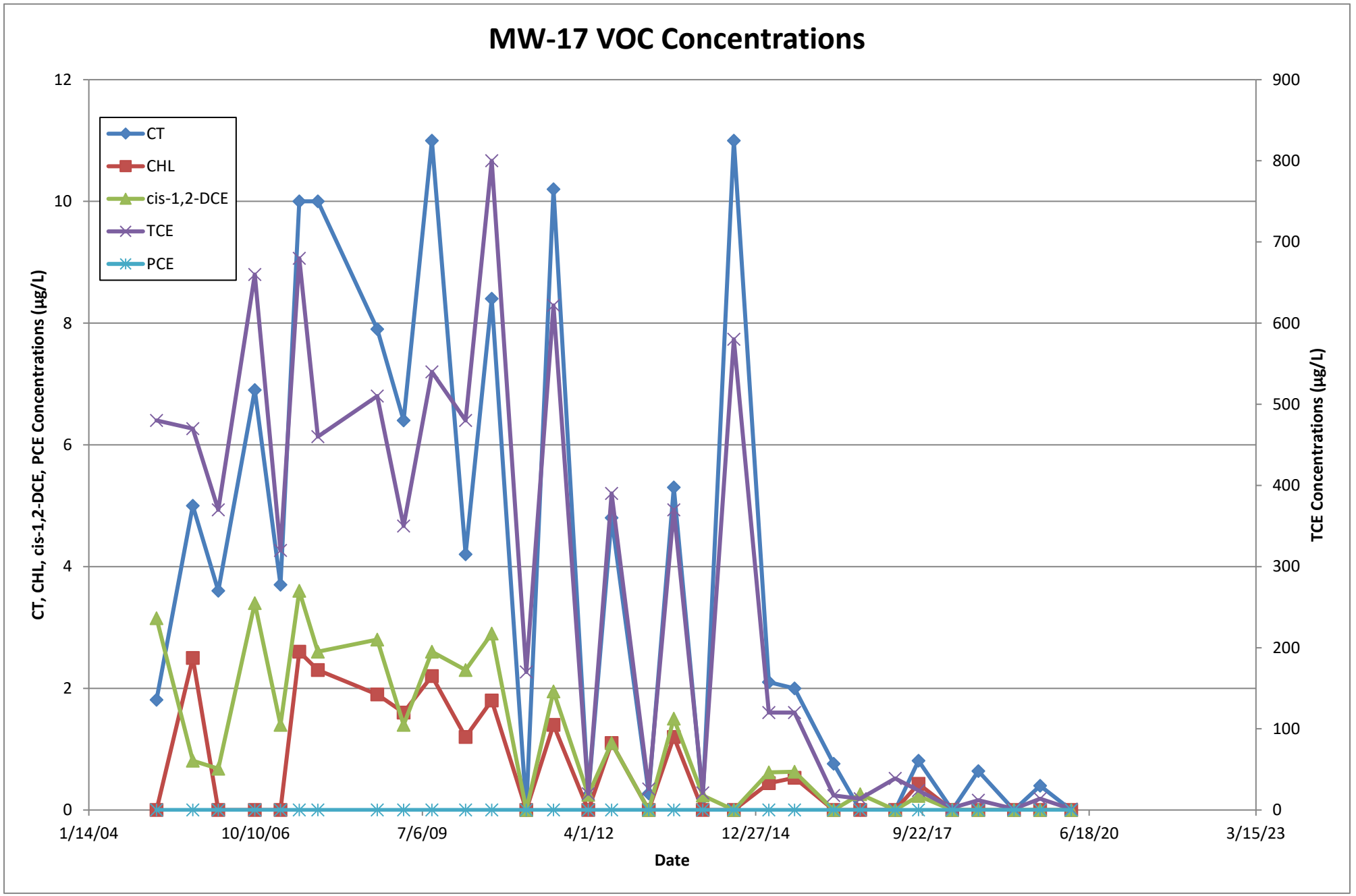

MW-11 VOC Concentrations
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

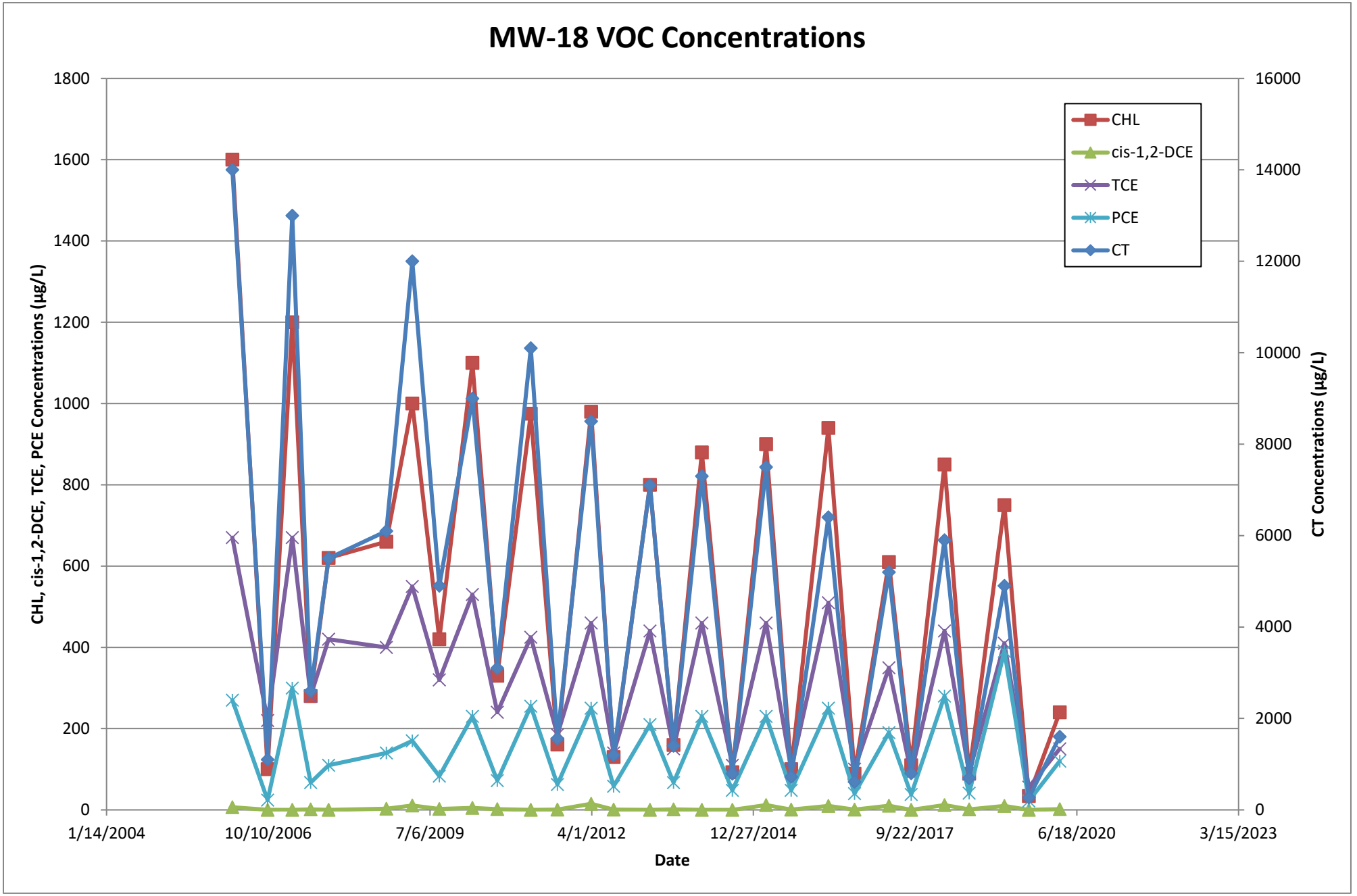

MW-13 VOC Concentrations
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

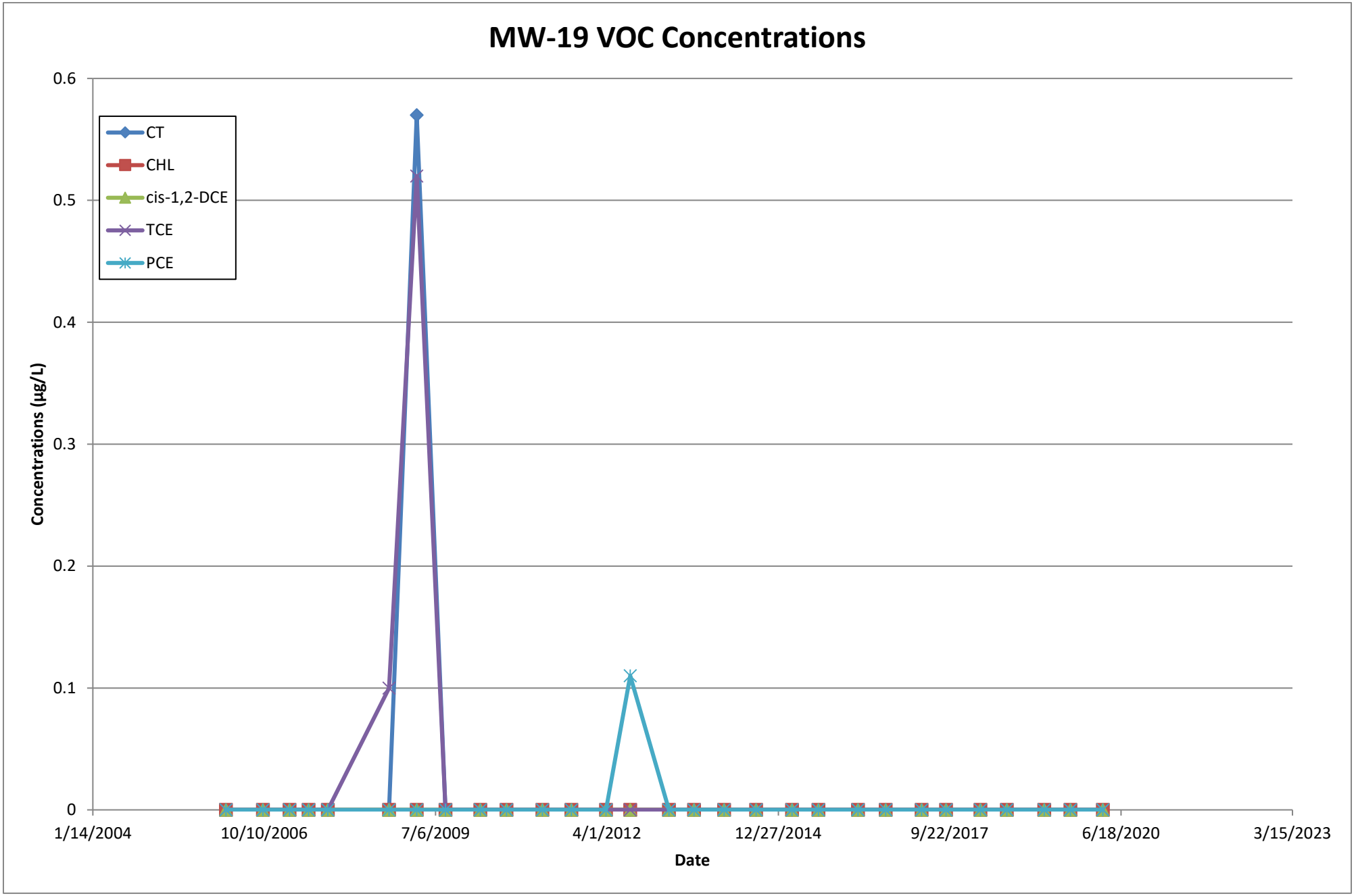

MW-14 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
14
12
10
8
6
4
2
0
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

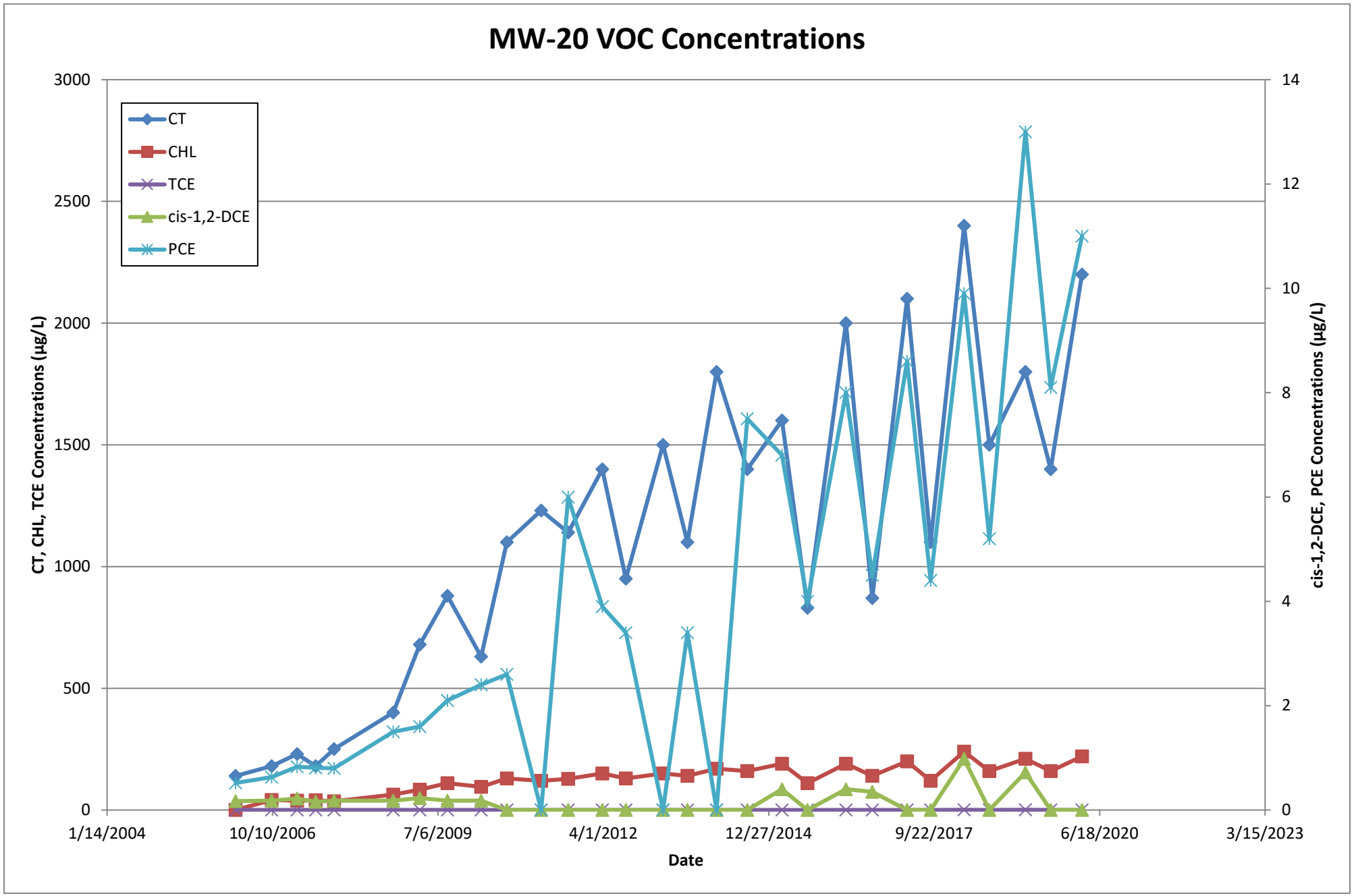

MW-15 VOC Concentrations
CT
CHL
cis-1,2-DCE
PCE
TCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
10
20
30
40
50
60
70
80
90
0
500
1000
1500
2000
2500
3000
3500
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023

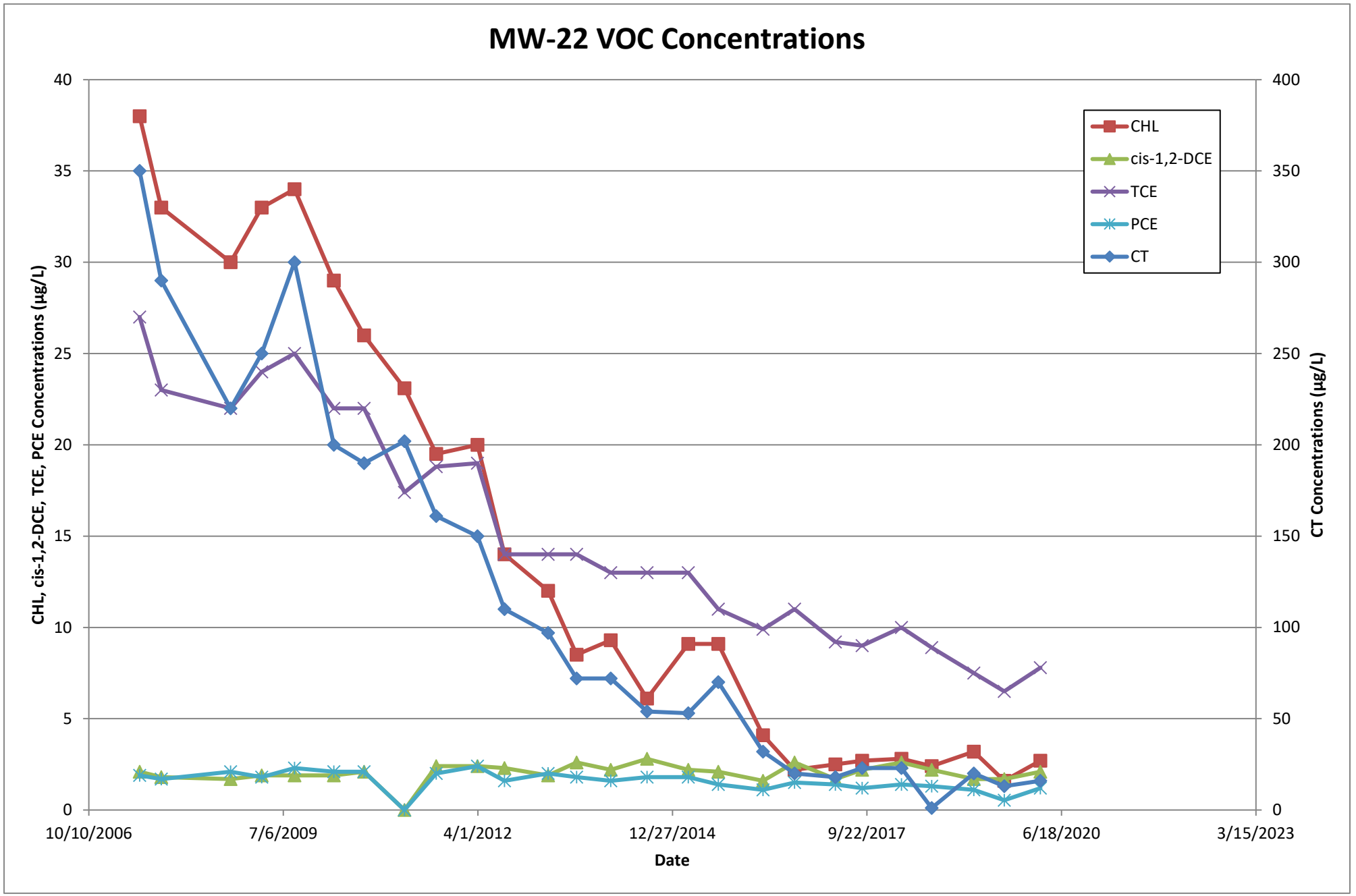

MW-16 VOC Concentrations
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

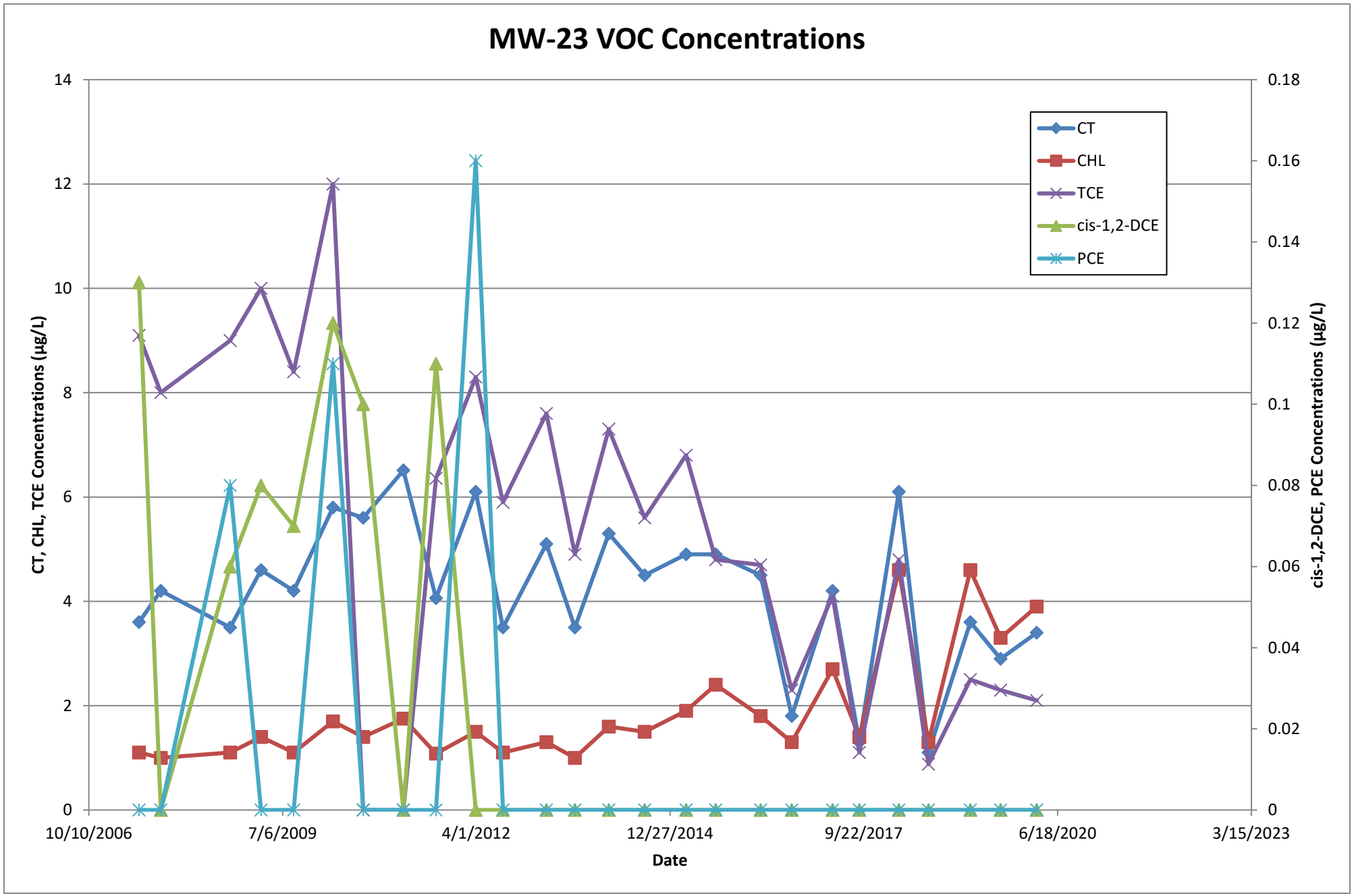

MW-17 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
2
4
6
8
10
12
0
100
200
300
400
500
600
700
800
900
1/14/04
10/10/06
7/6/09
4/1/12
12/27/14
9/22/17
6/18/20
3/15/23

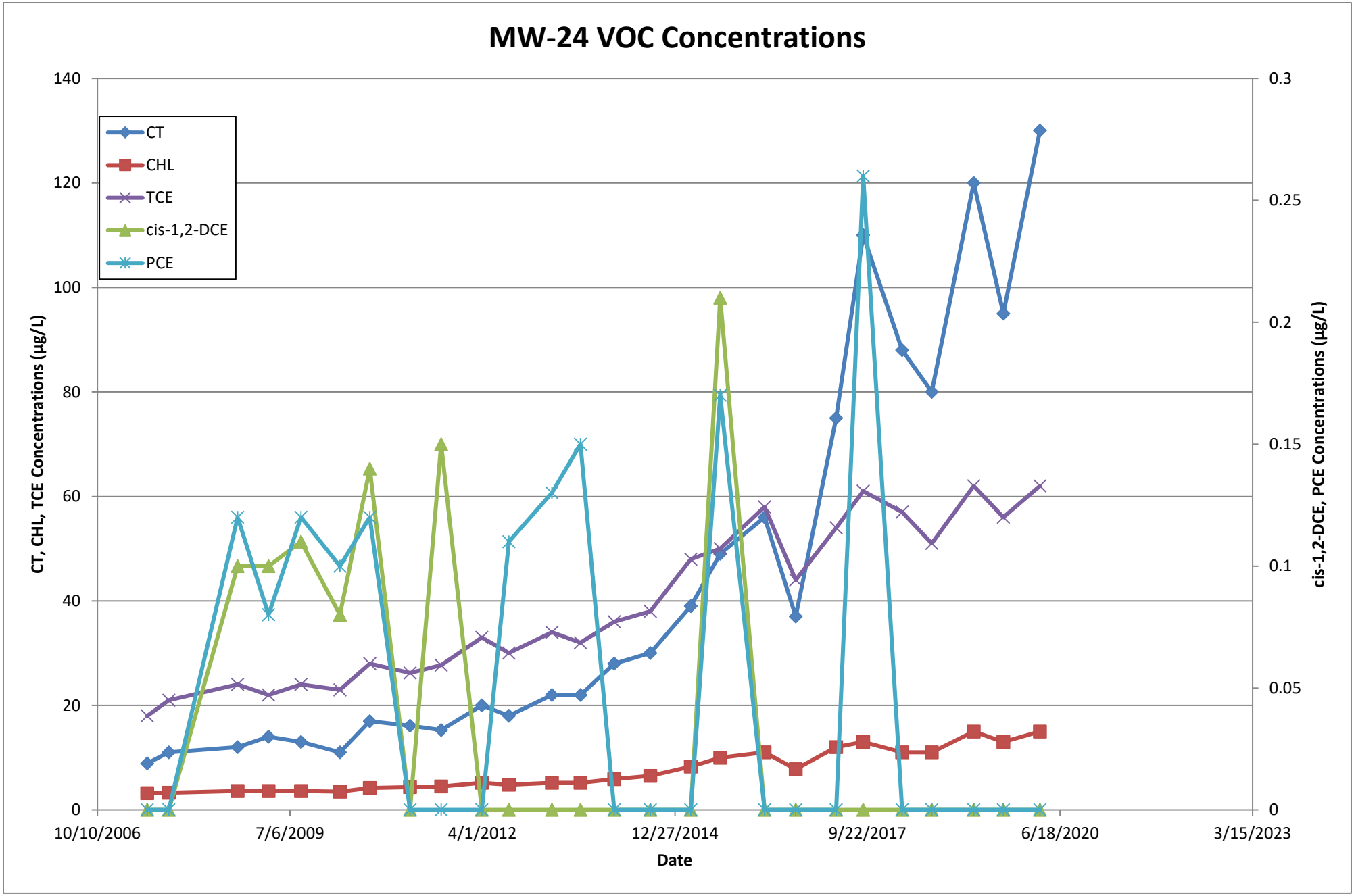

MW-18 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
1800
1600
1400
1200
1000
800
600
400
200
0
16000
14000
12000
10000
8000
6000
4000
2000
0
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023

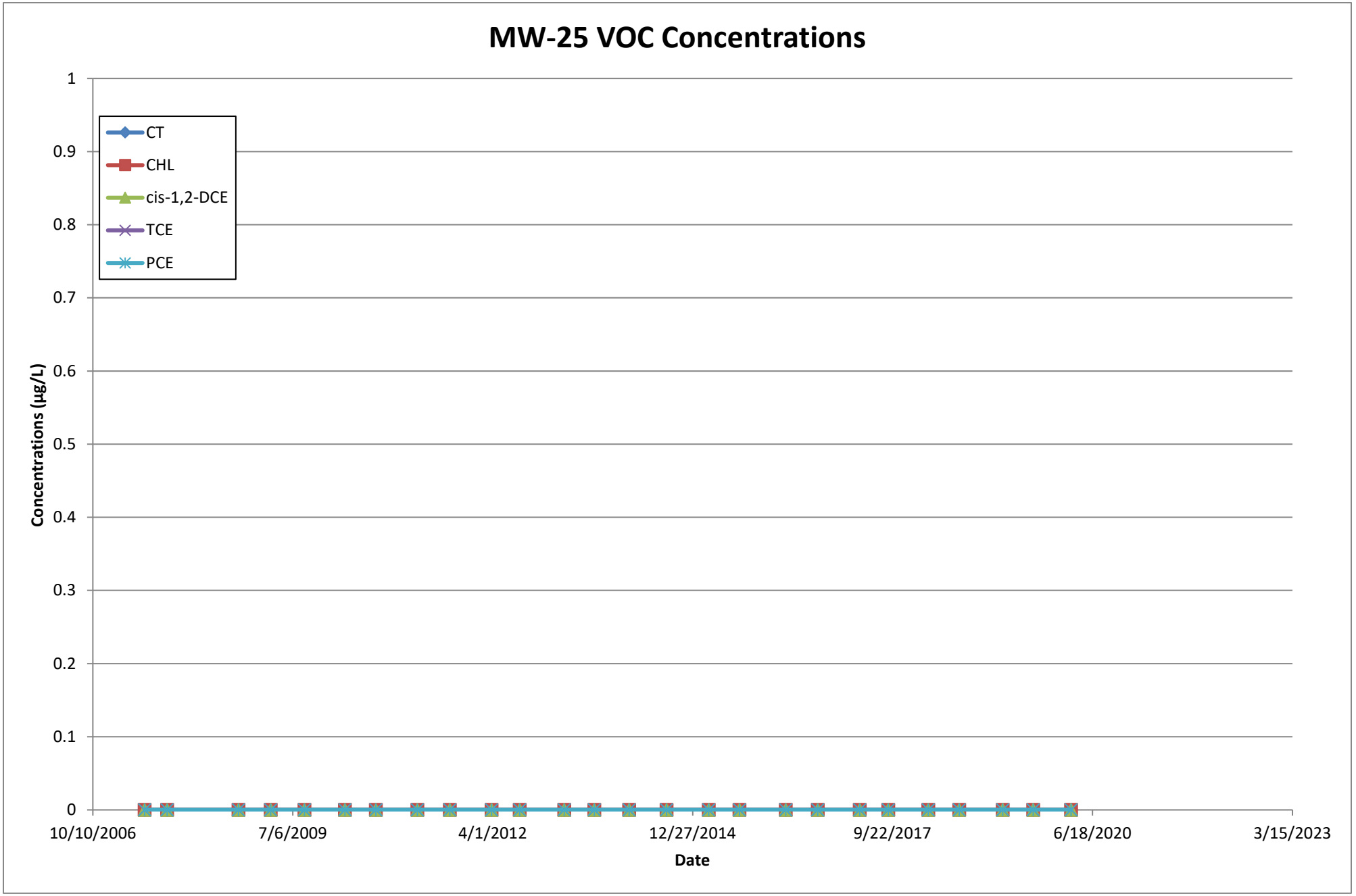

MW-19 VOC Concentrations
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

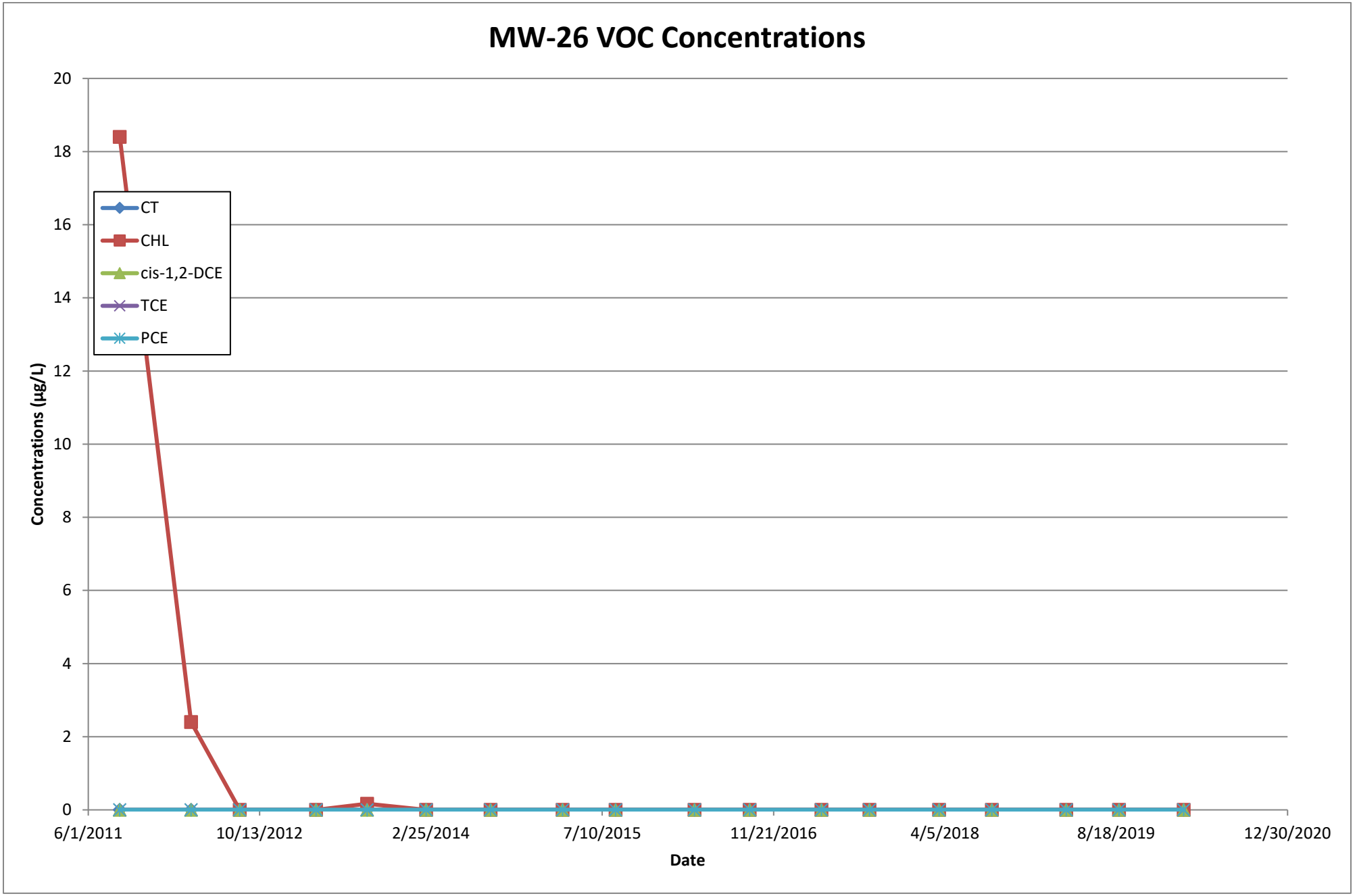

MW-20 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
3000
2500
2000
1500
1000
500
0
14
12
10
8
6
4
2
0
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

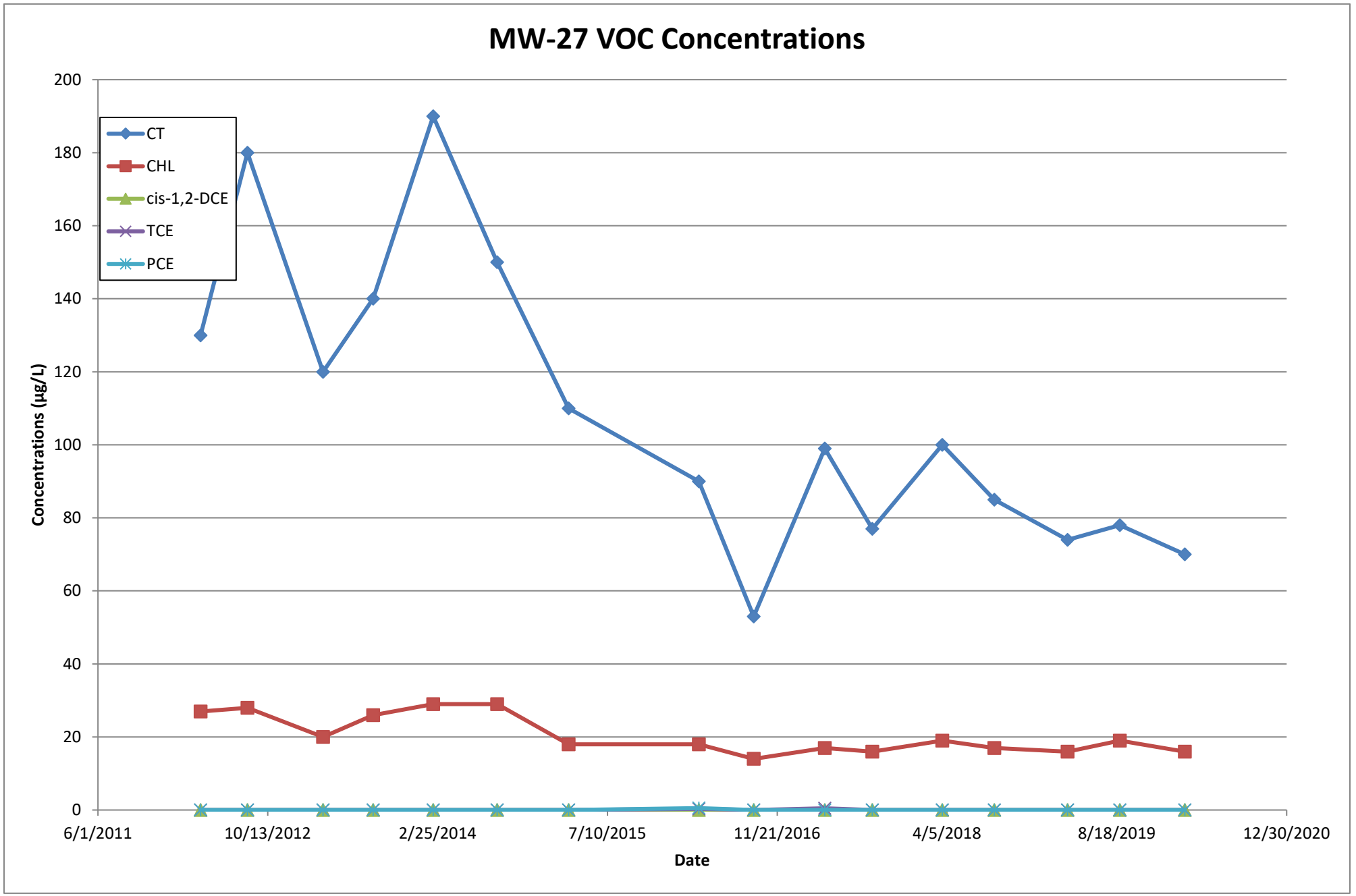

MW-22 VOC Concentrations
CHL
cis-1,2-DCE
TCE
PCE
CT
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
0
5
10
15
20
25
30
35
40
0
50
100
150
200
250
300
350
400
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

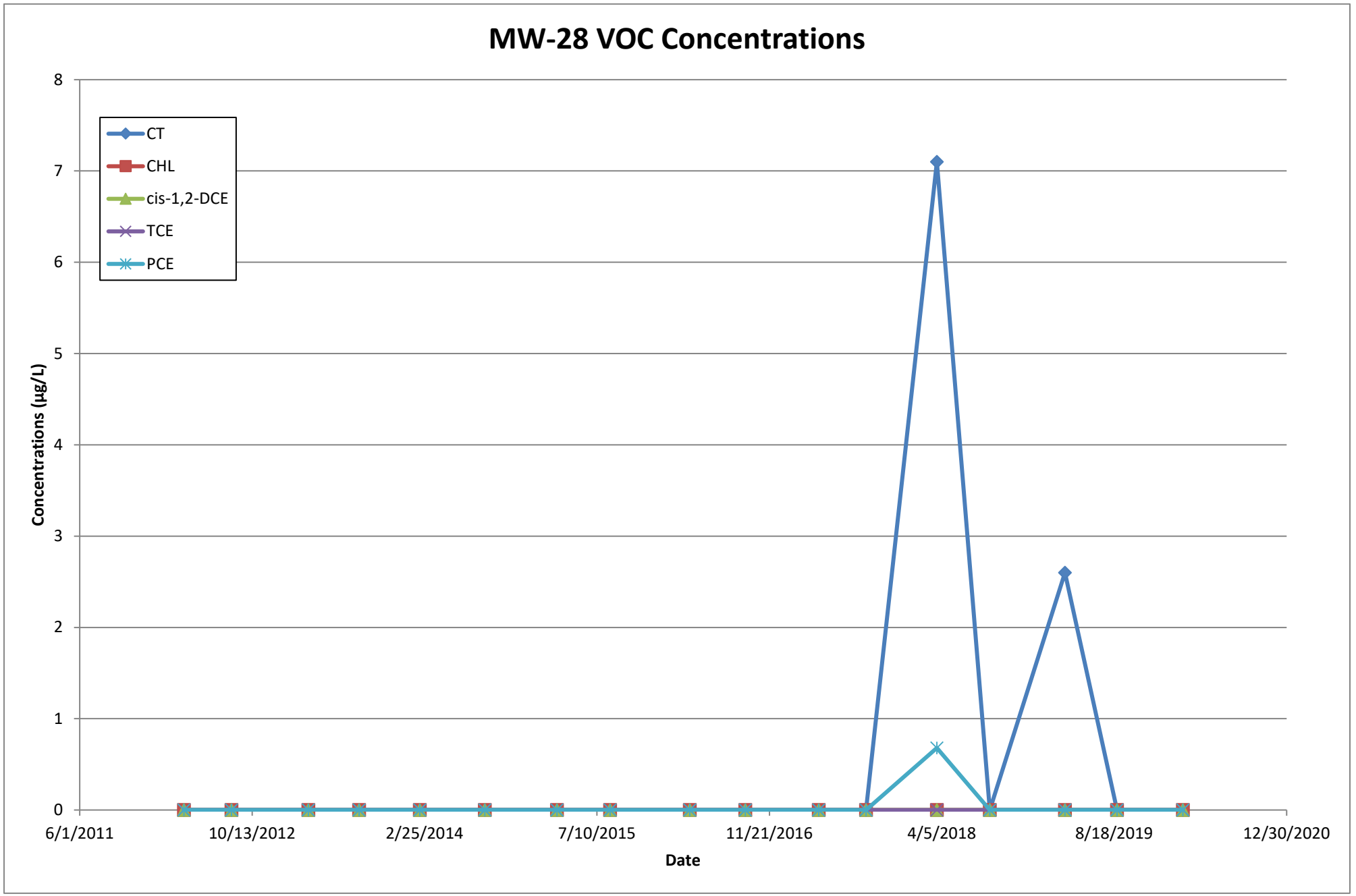

MW-23 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
0
2
4
6
8
10
12
14
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023

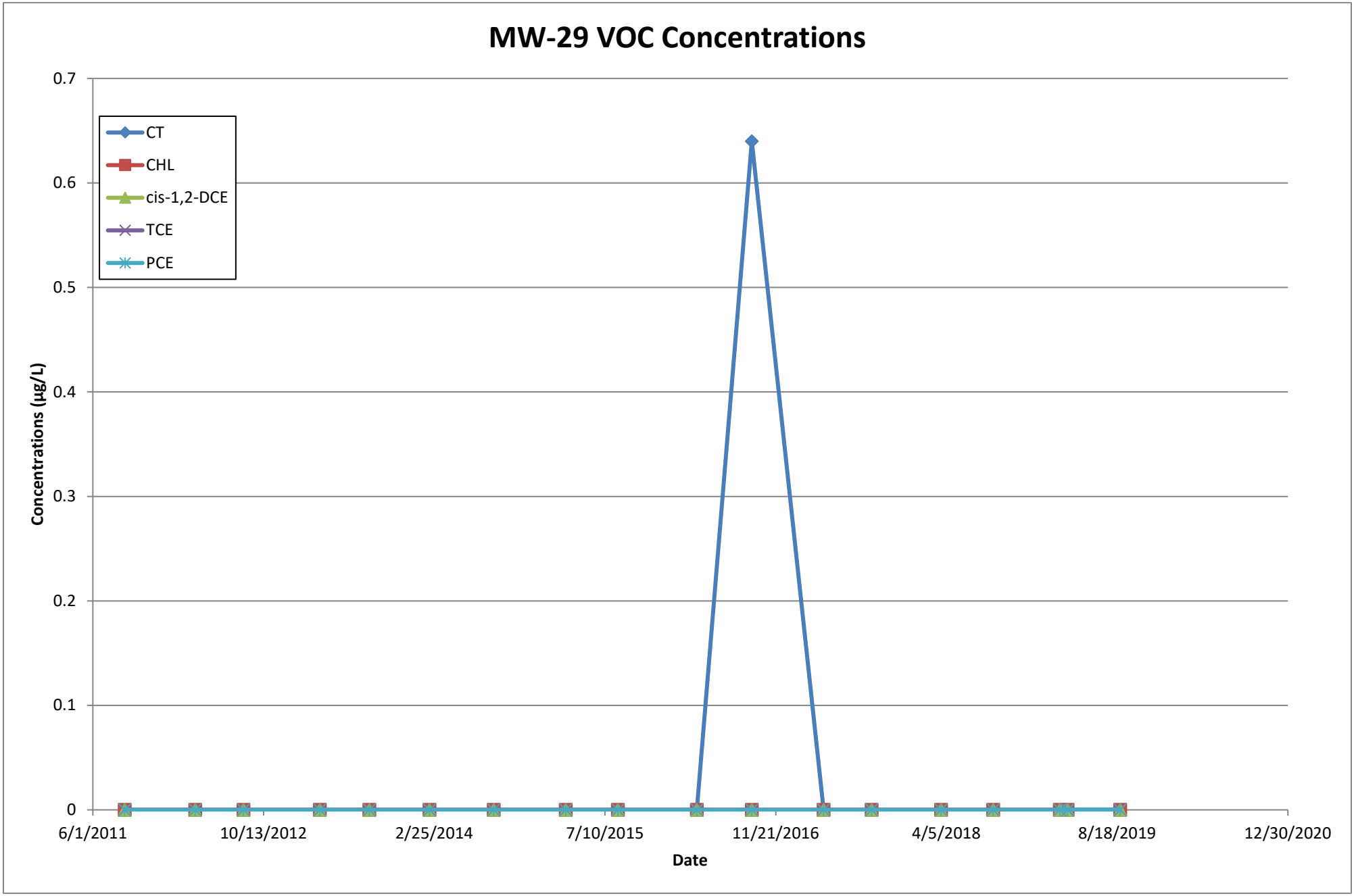

MW-24 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
140
120
100
80
60
40
20
0
0.3
0.25
0.2
0.15
0.1
0.05
0
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023

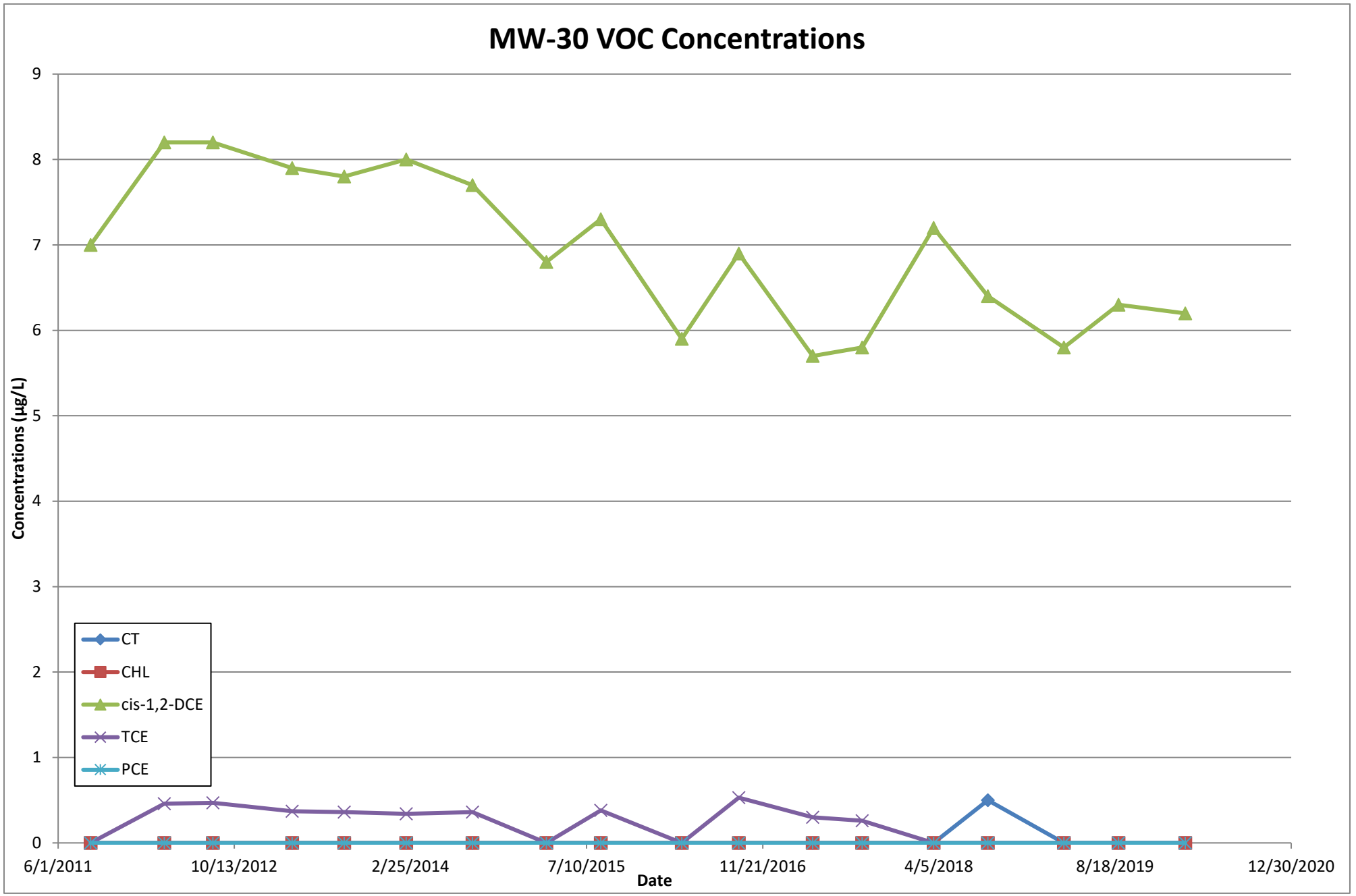

MW-25 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date

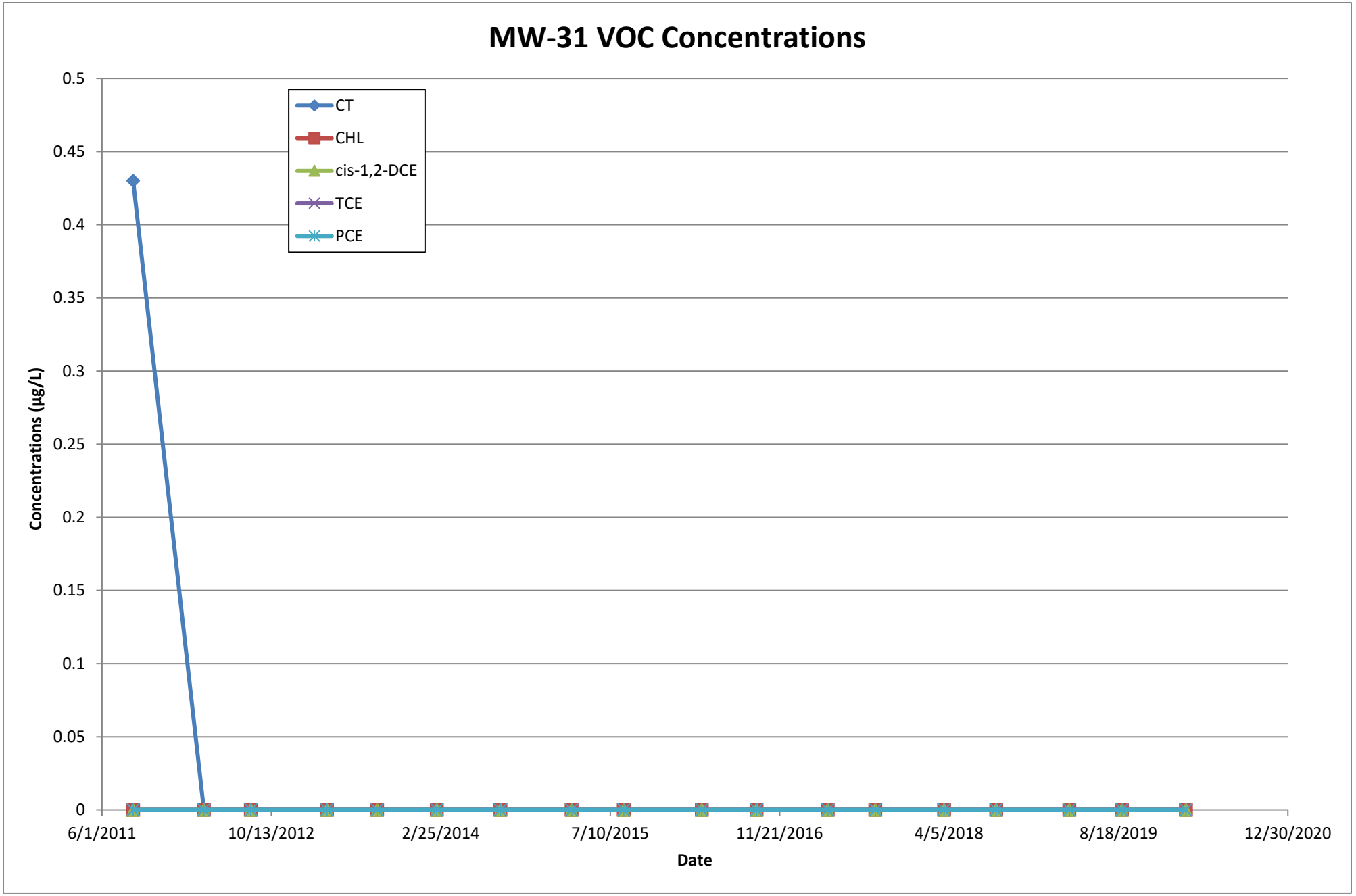

MW-26 VOC Concentrations
20
18
16
14
12
10
8
6
4
2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
6/1/2011
10/13/2012
2/25/2014
7/10/2015
11/21/2016
4/5/2018
8/18/2019
12/30/2020
Date

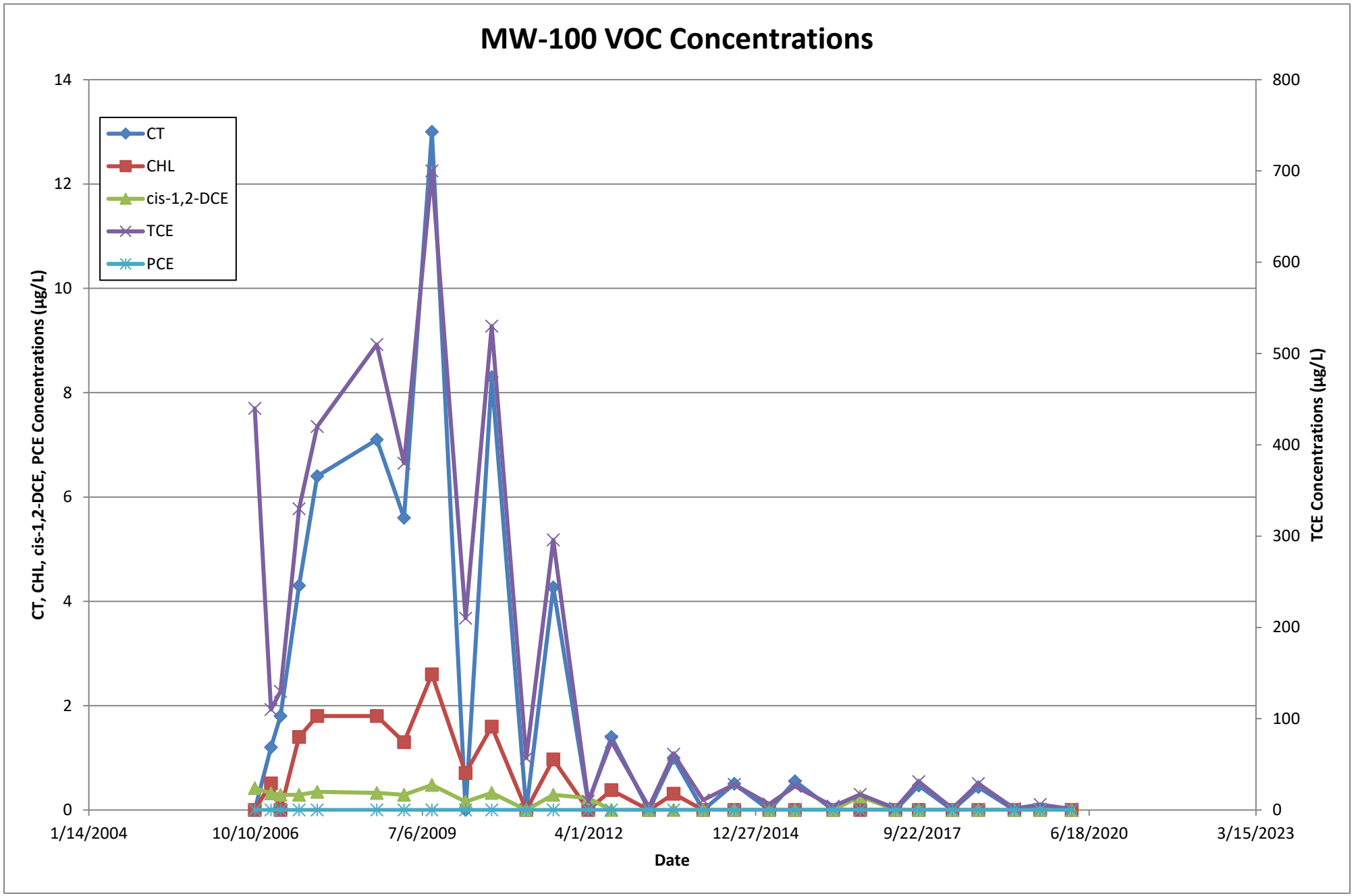

MW-27 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
200
180
160
140
120
100
80
60
40
20
0
6/1/2011
10/13/2012
2/25/2014
7/10/2015
11/21/2016
4/5/2018
8/18/2019
12/30/2020
Date

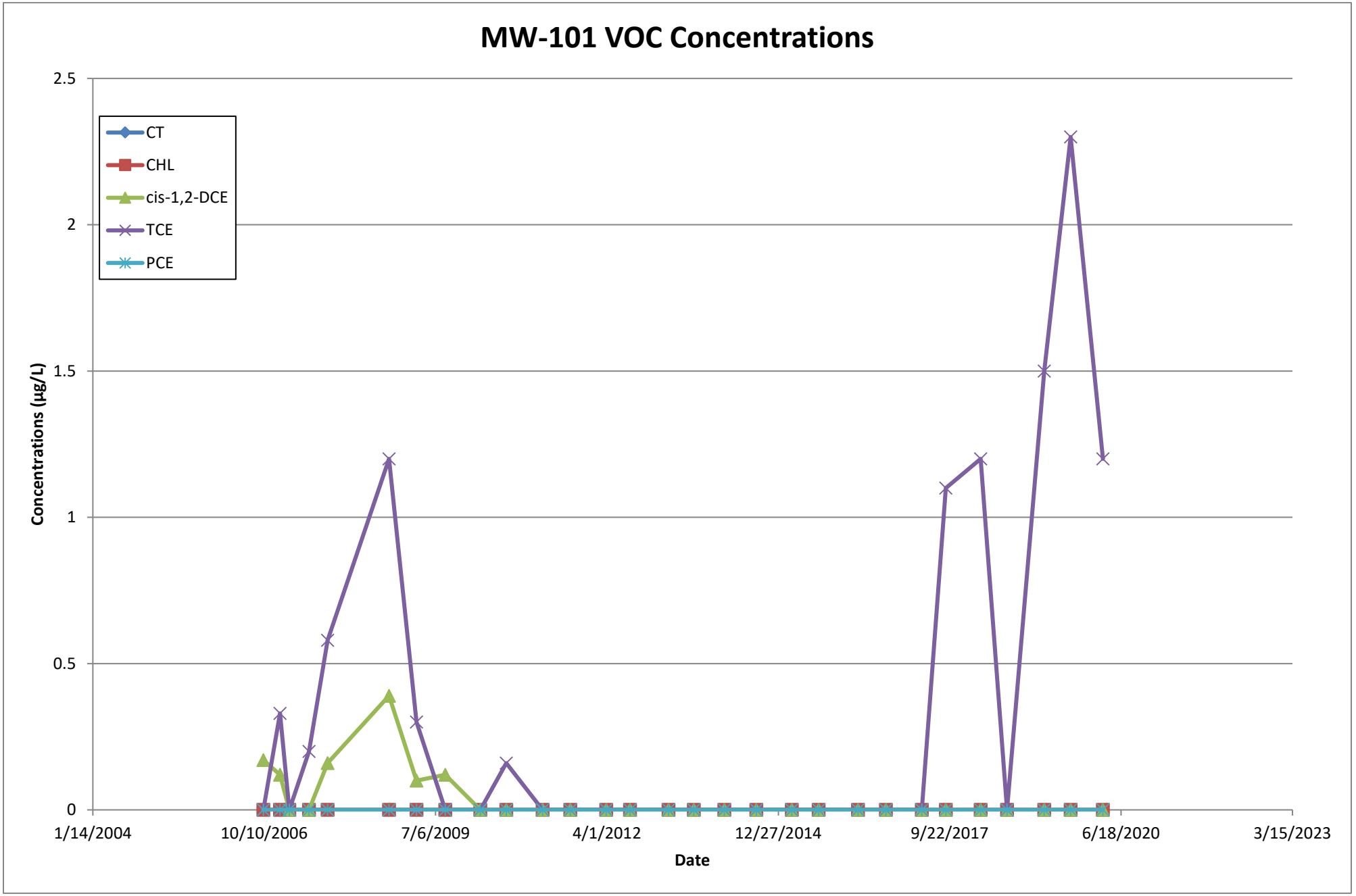

MW-28 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
6/1/2011
10/13/2012
2/25/2014
7/10/2015
11/21/2016
4/5/2018
8/18/2019
12/30/2020
Date

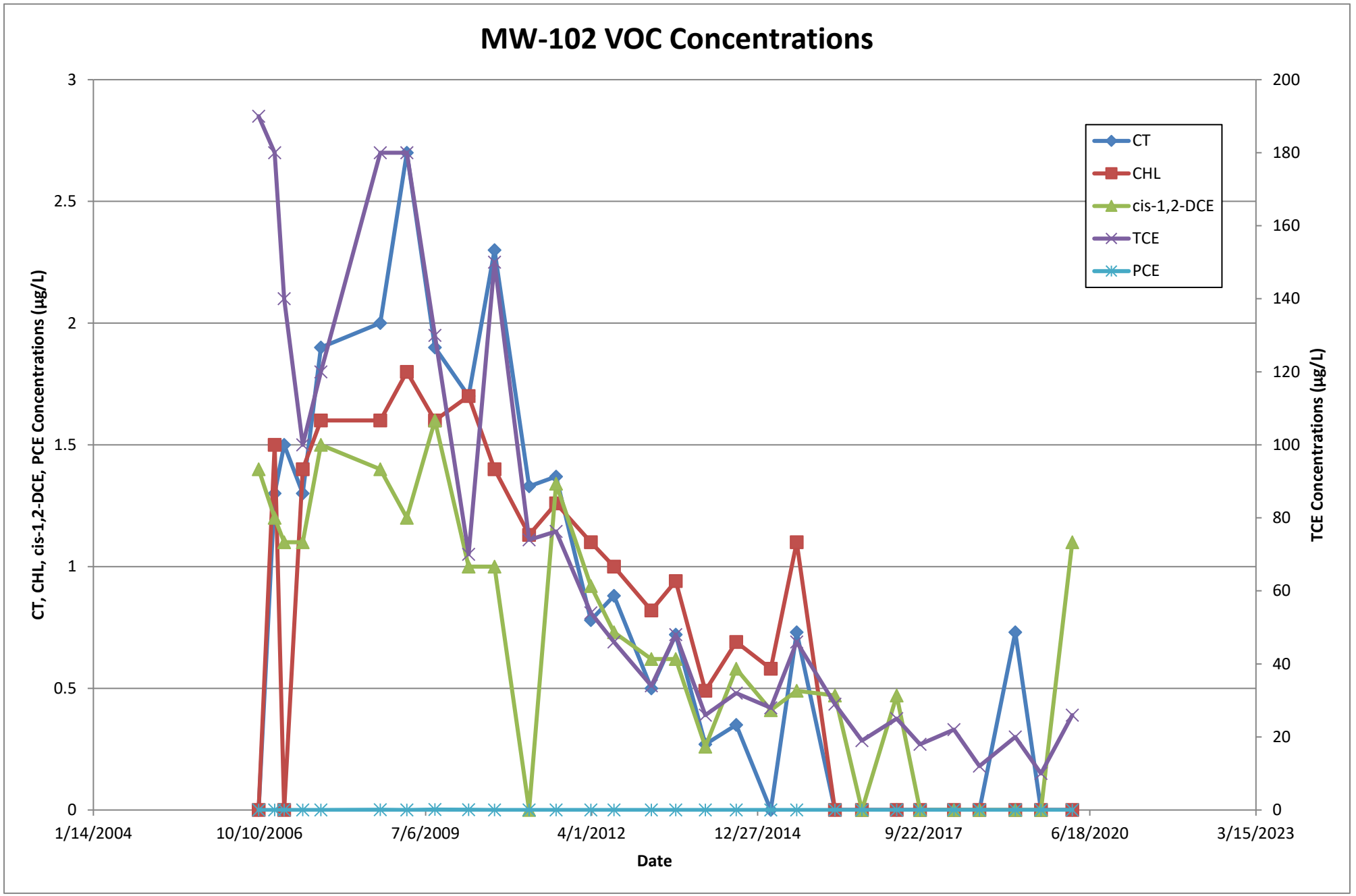

MW-29 VOC Concentrations
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
6/1/2011
10/13/2012
2/25/2014
7/10/2015
11/21/2016
4/5/2018
8/18/2019
12/30/2020
Date

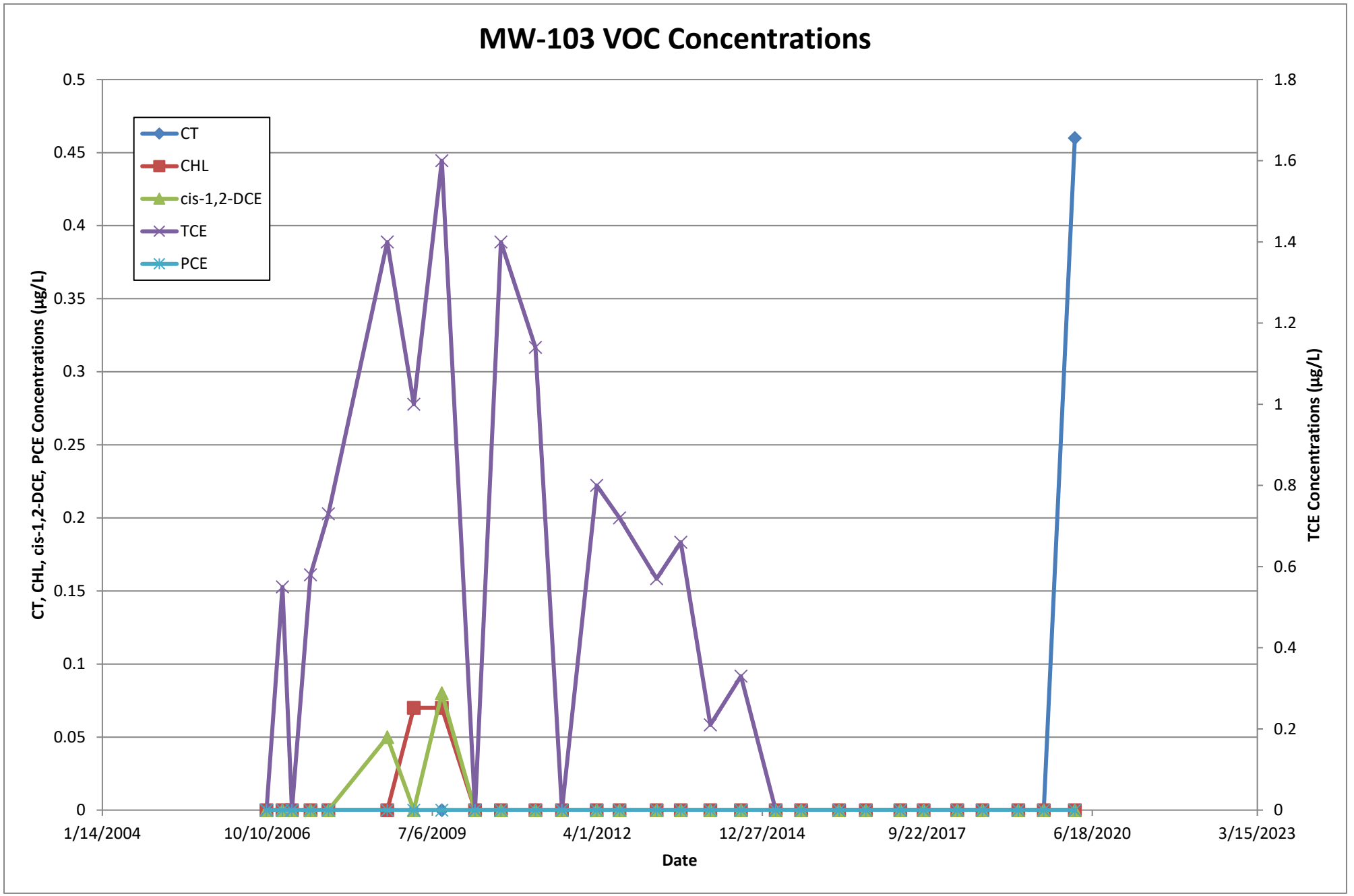

MW-30 VOC Concentrations
Concentrations (µg/L)
9
8
7
6
5
4
3
2
1
0
6/1/2011
10/13/2012
2/25/2014
7/10/2015
11/21/2016
4/5/2018
8/18/2019
12/30/2020
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

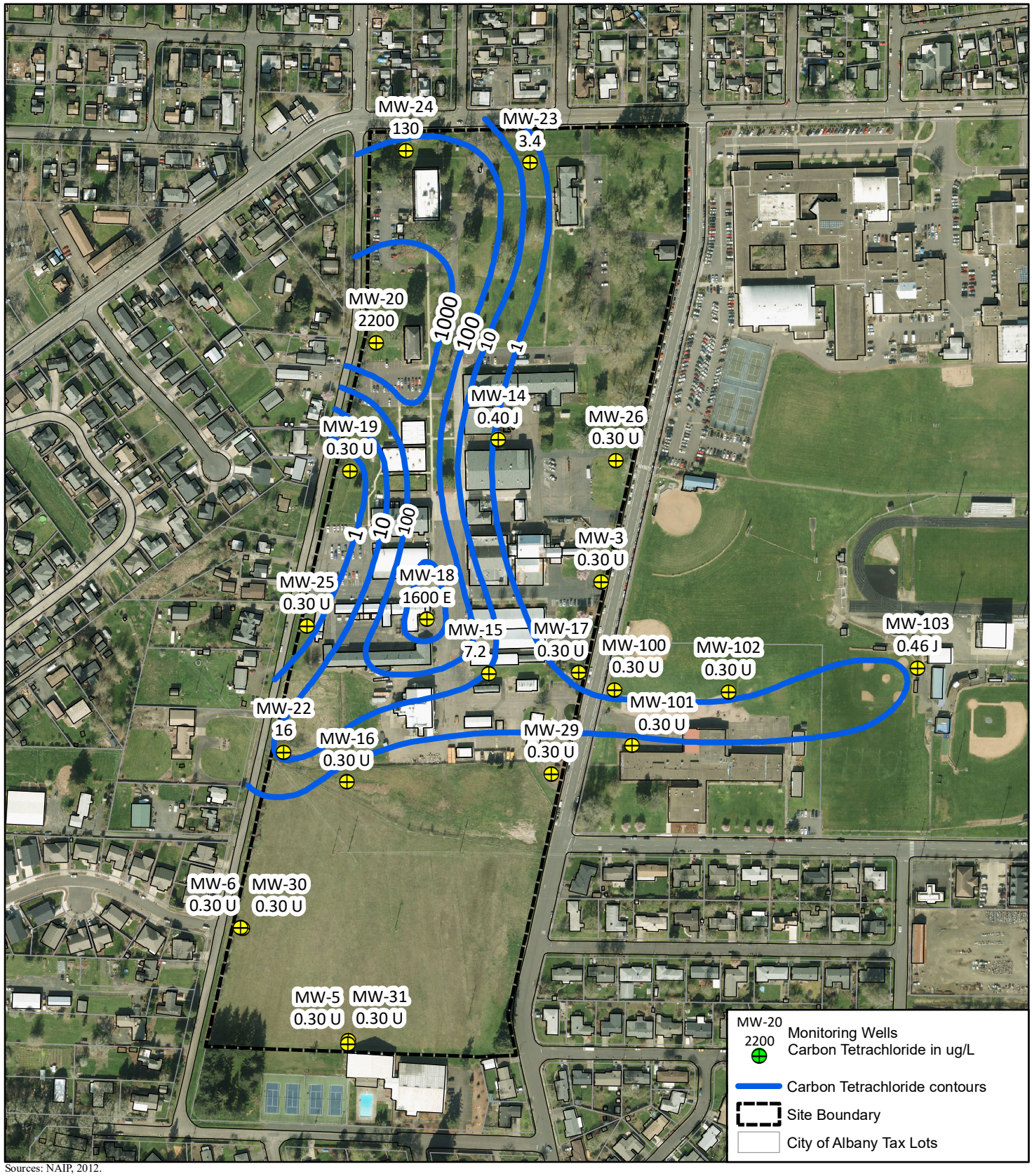

MW-31 VOC Concentrations
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
6/1/2011
10/13/2012
2/25/2014
7/10/2015
11/21/2016
4/5/2018
8/18/2019
12/30/2020
Date


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
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023


MW-101 VOC Concentrations
2.5
2
1.5
1
0.5
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
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
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023


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)
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
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
Date



Sources: NAIP, 2012.
Albany GIS, 2007.

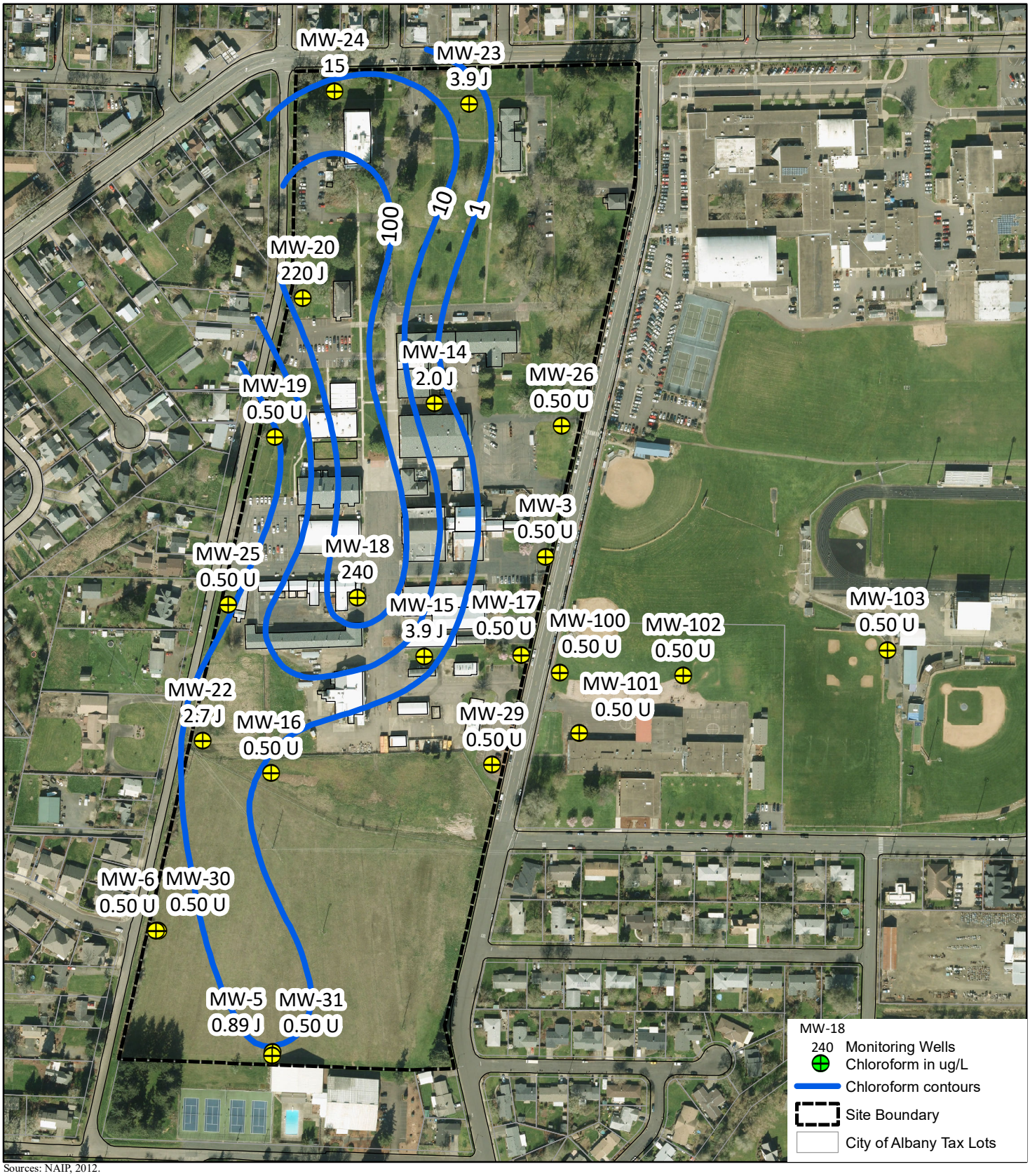
150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE GRAVEL AQUIFER, MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 7



Sources: NAIP, 2012.
Albany GIS, 2007.

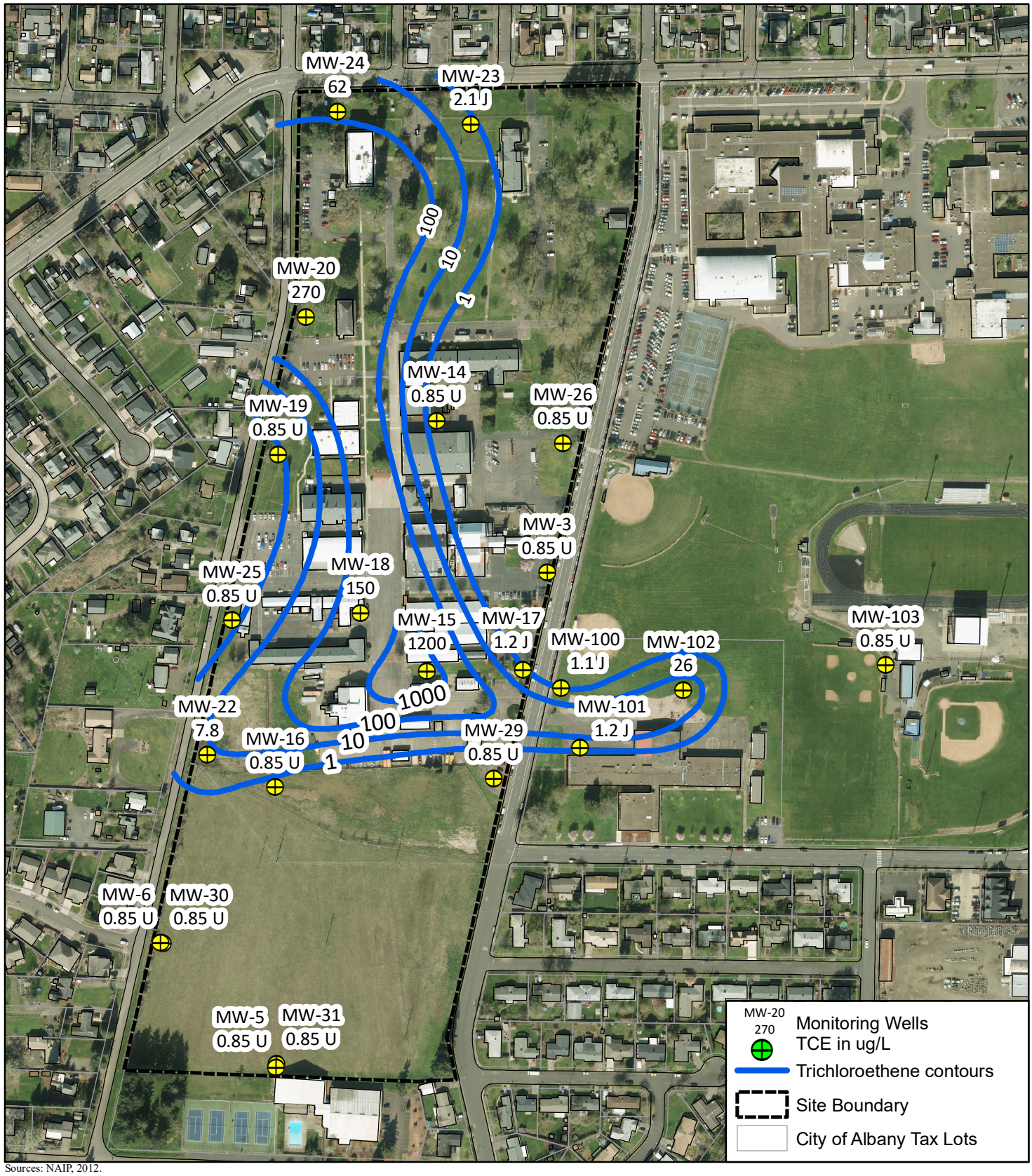
150 75 0 150 300
Feet

CONCENTRATION OF CHLOROFORM IN THE GRAVEL AQUIFER, MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 8



Sources: NAIP, 2012.
Albany GIS, 2007.

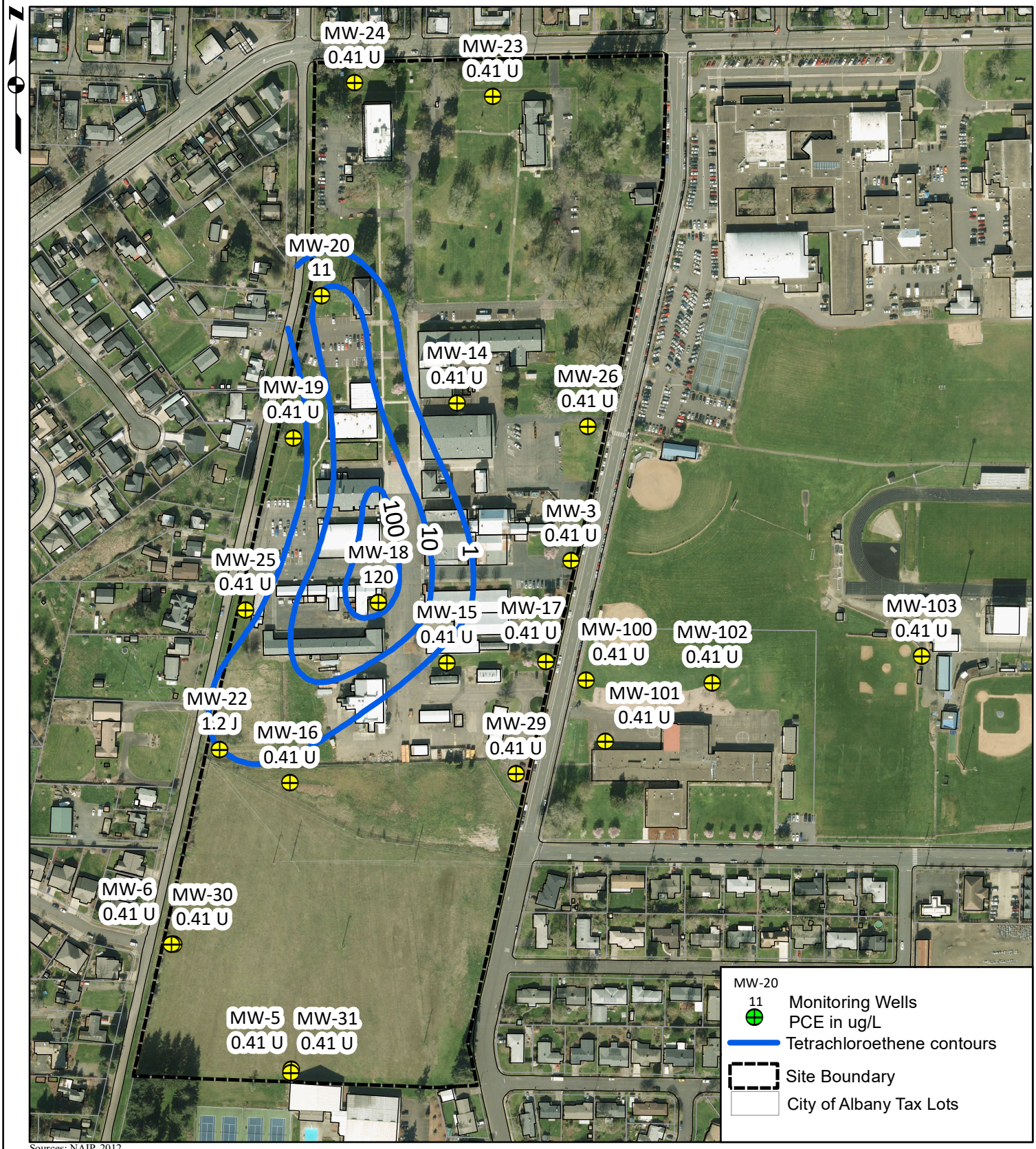
150 75 0 150 300
Feet

CONCENTRATION OF TRICHLOROETHENE IN THE GRAVEL AQUIFER, MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 9



Sources: NAIP, 2012.
Albany GIS, 2007.

150 75 0 150 300
Feet

CONCENTRATION OF TETRACHLOROETHENE IN THE GRAVEL AQUIFER, MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 10



Sources: NAIP, 2012.
Albany GIS, 2007.

150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE PERCHED AQUIFER MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 11



Sources: NAIP, 2012.
Albany GIS, 2007.

150 75 0 150 300
Feet

CONCENTRATION OF CIS 1,2-DCE IN THE GRAVEL AQUIFER, MARCH 2020

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

March 2020

FIGURE 12

Appendix A.
Monitoring Well Sampling Field Logs

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 1

WELL NO.: MW-1

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/02/20

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

Depth to Water: 19.28 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1300 **End Purge Time:** 1300

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

PURGING VALUES

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
0	0		19.28							

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

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

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

QA/QC Sample I.D.: _____

Sample Start Time: **End SampleTime:**

COMMENTS:

PID: 0.0ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-3

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Low 40's **Sampling Date:** 03/02/20

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

Depth to Water: 9.11 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1035 **End Purge Time:** 1055

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		9.12	6.96	13.51	0.268	9.8	4.55	255	
1	5		9.11	6.92	13.70	0.267	18.6	4.35	259	
2	10		9.11	6.87	13.59	0.264	17.9	4.20	266	
3	15		9.11	6.85	13.58	0.262	3.1	4.18	267	
4	20		9.11	6.84	13.57	0.260	0.0	4.16	268	

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW-3-030220 03/02/20 1100

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

QA/QC Sample I.D.:

Sample Start Time: 1100 **End SampleTime:** 1105

COMMENTS:

PID: 0.0 ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-4

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Partly Sunny, Mild, Temp. Low 60's **Sampling Date:** 03/03/20

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

Depth to Water: 2.03 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1355 **End Purge Time:** 1415

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		2.13	7.00	15.00	0.400	0.0	1.95	291	
1	5		2.08	6.94	14.87	0.407	4.2	1.07	289	
2	10		2.08	6.95	14.82	0.408	5.3	1.09	284	
3	15		2.08	6.94	14.81	0.409	3.8	1.00	282	
4	20		2.08	6.93	14.81	0.410	2.7	1.10	280	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW4-030320 03/03/20 1420

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

QA/QC Sample I.D.:

Sample Start Time: 1420 **End SampleTime:** 1425

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-5

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. Low 50's **Sampling Date:** 03/04/20

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

Depth to Water: 10.55 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1005 **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		11.15	7.42	12.90	0.405	11.5	1.74	-53	
1	5		11.05	7.30	12.88	0.410	9.1	2.08	-22	
2	10		11.02	7.23	12.67	0.421	6.1	1.73	-6	
3	15		10.99	7.16	12.54	0.426	7.5	1.49	14	
4	20		10.98	7.14	12.52	0.424	6.5	1.47	16	
5	25		10.97	7.12	12.51	0.424	6.4	1.46	17	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW5-030420 03/04/20 1035

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

QA/QC Sample I.D.:

Sample Start Time: 1035 **End SampleTime:** 1040

COMMENTS:

PID: 0.0 ppm

DAY 3

USSE2 O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-6

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Partly Sunny, Cool, Temp. Mid 40's **Sampling Date:** 03/04/20

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

Depth to Water: 13.59 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0815 **End Purge Time:** 0840

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		13.69	7.57	10.99	0.152	35.5	7.13	238	
1	5		13.65	7.18	11.35	0.143	37.3	5.69	256	
2	10		13.65	6.90	11.20	0.137	13.3	5.55	272	
3	15		13.65	6.68	10.95	0.127	2.9	5.05	288	
4	20		13.65	6.67	10.93	0.125	2.6	4.94	289	
5	25		13.65	6.65	10.92	0.123	2.4	4.92	290	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW6-030420 03/04/20 0845

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

QA/QC Sample I.D.:

Sample Start Time: 0845 **End SampleTime:** 0850

COMMENTS:

PID: 0.0 ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-7

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. High 50's **Sampling Date:** 03/05/20

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

Depth to Water: 1.45 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1310 **End Purge Time:** 1330

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		2.25	6.81	13.53	0.325	22.1	3.26	242	
1	5		2.05	6.65	14.73	0.322	0.0	2.83	255	
2	10		2.05	6.60	14.55	0.326	0.0	2.77	269	
3	15		2.05	6.58	14.53	0.325	0.0	2.68	271	
4	20		2.05	6.57	14.52	0.323	0.0	2.65	273	

Dave Hreha 03/05/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW7-030520 03/05/20 1335

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

QA/QC Sample I.D.: _____

Sample Start Time: 1335 **End SampleTime:** 1340

COMMENTS:

PID: 0.0 ppm

DAY2

USSE2 O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-8

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/03/20

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

Depth to Water: 7.72 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0840 **End Purge Time:** 0905

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		8.13	6.79	12.91	0.177	1.00	3.70	276	
1	5		8.30	6.76	12.90	0.177	0.60	2.17	278	
2	10		8.39	6.72	12.96	0.177	0.0	1.75	278	
3	15		8.43	6.68	13.01	0.177	0.0	1.50	278	
4	20		8.45	6.67	13.03	0.177	0.0	1.38	277	
5	25		8.45	6.65	13.04	0.178	0.0	1.30	276	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW8-030320 03/03/20 0910

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

QA/QC Sample I.D.:

Sample Start Time: 0910 **End SampleTime:** 0915

COMMENTS:

PID: 0.0 ppm

DAY 2

USSE2 S&E O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-9

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/03/20

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

Depth to Water: 2.37 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0920 **End Purge Time:** 0945

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		2.75	6.53	11.87	0.157	5.6	1.45	297	
1	5		2.51	6.43	11.81	0.149	6.3	1.25	297	
2	10		2.47	6.38	11.73	0.126	2.2	1.08	293	
3	15		2.45	6.16	12.15	0.099	0.0	0.76	285	
4	20		2.45	6.15	12.16	0.098	0.0	0.78	284	
5	25		2.45	6.14	12.15	0.097	0.0	0.79	283	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW9-030320 03/03/20 0950

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

QA/QC Sample I.D.: _____

Sample Start Time: 0950 **End SampleTime:** 0955

COMMENTS:

PID: 0.0 ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-10

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: CLOUDY, MILD, TEMP. MID 50's **Sampling Date:** 03/03/20

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

Depth to Water: 2.20 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1230 **End Purge Time:** 1255

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

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		2.30	6.59	13.99	0.150	43.8	3.12	297	
1	5		2.30	6.51	14.04	0.151	42.0	2.88	300	
2	10		2.30	6.49	14.09	0.151	55.0	3.09	301	
3	15		2.30	6.49	14.17	0.152	59.2	3.20	303	
4	20		2.30	6.49	14.18	0.152	59.0	3.21	305	
5	25		2.30	6.49	14.17	0.152	58.8	3.20	306	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW10-030320 03/03/20 1300

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

QA/QC Sample I.D.: MW10-030320-DUPLICATE, MW10-030320-MS, AND MW10-030320-MSD

Sample Start Time: 1300 **End SampleTime:** 1310

COMMENTS:

PID: 0.0 ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-11

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: SUNNY, COOL, TEMP. LOW 30's **Sampling Date:** 03/05/20

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

Depth to Water: 7.54 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0750 **End Purge Time:** 0815

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		7.72	7.34	9.93	0.141	2.68	4.98	309	
1	5		7.78	6.85	11.35	0.120	210	3.81	314	
2	10		7.87	6.37	12.59	0.111	112	2.95	297	
3	15		8.05	6.21	12.49	0.111	71.1	2.61	260	
4	20		8.00	6.19	12.47	0.111	53.8	2.60	258	
5	25		8.00	6.18	12.46	0.111	34.0	2.58	261	

Dave Hreha 03/05/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW11-030520 03/05/20 0820

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

QA/QC Sample I.D.: MW11-030520-; ~~MW~~ DUPLICATE, MW11-030520-MS

MW11-030520-MSD

Sample Start Time: 0820 **End SampleTime:** 0830

COMMENTS: QA SAMPLES COLLECTED, SOLIDS PRESENT

PID: 0.0 ppm

DAY 1

USSE2 O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-13

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Low 40's **Sampling Date:** 03/02/20

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

Depth to Water: 10.28' (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0845 **End Purge Time:** 0905

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		10.28	8.14	12.68	0.228	47.5	3.79	191	
1	5		10.28	7.36	12.65	0.227	53.2	3.52	192	
2	10		10.18	7.09	12.20	0.222	37.4	3.42	187	
3	15		10.15	7.08	12.19	0.220	9.3	3.42	187	
4	20		10.13	7.07	12.17	0.219	0.0	3.41	188	

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW-13-030220 03/02/20 0910

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

QA/QC Sample I.D.:

Sample Start Time: 0910 **End SampleTime:** 0915

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-14

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. low 40's **Sampling Date:** 03/02/20

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

Depth to Water: 14.77 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0920 **End Purge Time:** 0945

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		14.77	6.95	14.41	0.204	33.3	5.89	227	
1	5		14.77	6.95	14.39	0.202	43.9	5.36	238	
2	10		14.77	6.95	14.26	0.200	40.6	5.20	242	
3	15		14.77	6.95	13.90	0.190	21.8	5.11	246	
4	20		14.77	6.95	13.89	0.189	5.40	5.10	247	
5	25		14.77	6.93	13.88	0.187	0.0	5.09	246	

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW-14-030220 03/02/20 0950

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

QA/QC Sample I.D.:

Sample Start Time: 0950 **End SampleTime:** 0955

COMMENTS:

PID: 0.0 ppm

USSE2 O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 4

WELL NO.: MW-15

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. Mid 40's **Sampling Date:** 03/05/20

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

Depth to Water: 12.33 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0940 **End Purge Time:** 1000

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		12.33	6.68	14.36	4.04	2.7	2.19	318	
1	5		12.33	6.73	15.20	4.03	0.5	2.68	305	
2	10		12.33	6.72	15.35	4.05	0.0	1.86	298	
3	15		12.33	6.71	15.36	4.07	0.0	1.84	297	
4	20		12.33	6.70	15.33	4.05	0.0	1.82	296	

Dave Hreha 03/05/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW15-030520 03/05/20 1005

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

QA/QC Sample I.D.:

Sample Start Time: 1005 **End SampleTime:** 1010

COMMENTS: Water in well, syphoned out.

PID: 0.0ppm

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 4

WELL NO.: MW-16

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. High 50's. **Sampling Date:** 03/05/20

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

Depth to Water: 6.50 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, Minirae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1230 **End Purge Time:** 1255

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

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		6.45	7.11	14.33	0.462	249	5.33	281	
1	5		6.45	7.04	14.32	0.453	270	4.49	274	
2	10		6.45	6.97	14.39	0.406	309	2.38	266	
3	15		6.45	6.89	14.27	0.378	432	1.20	255	
4	20		6.45	6.87	14.25	0.377	720	0.84	254	
5	25		6.45	6.85	14.24	0.378	816	0.89	252	

Dave Hreha 03/05/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW16-030520 03/05/20 1300

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

QA/QC Sample I.D.: _____

Sample Start Time: 1300 **End SampleTime:** 1305

COMMENTS: Water in Well. Syphoned out.

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-17

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/02/20

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

Depth to Water: 8.27 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

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		8.27	7.50	14.39	0.306	3.50	2.81	252	
1	5		8.27	7.40	14.43	0.303	3.90	2.58	255	
2	10		8.27	7.35	14.35	0.303	0.00	2.70	257	
3	15		8.27	7.33	14.35	0.301	0.20	2.70	259	
4	20		8.27	7.32	14.34	0.300	0.30	2.68	261	

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW17-030220 03/02/20 1535

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

QA/QC Sample I.D.:

Sample Start Time: 1535 **End SampleTime:** 1540

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-18

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: SUNNY, MILD, TEMP. MID 50's **Sampling Date:** 03/04/20

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

Depth to Water: 13.49 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1410 **End Purge Time:** 1430

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		13.50	7.15	17.54	0.349	0.0	2.69	248	
1	5		13.50	7.21	17.84	0.351	0.0	2.39	244	
2	10		13.50	7.23	17.83	0.353	0.0	2.38	242	
3	15		13.48	7.23	17.81	0.353	0.0	2.36	240	
4	20		13.48	7.22	17.80	0.354	0.0	2.33	239	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW18-030420 03/04/20 1435

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

QA/QC Sample I.D.:

Sample Start Time: 1435 **End SampleTime:** 1440

COMMENTS:

PID: 0.0 ppm

DAY2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-19

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/03/20

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

Depth to Water: 13.90 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1005 **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		14.13	6.40	13.76	0.165	0.0	0.78	302	
1	5		14.03	6.57	14.14	0.165	2.5	0.51	281	
2	10		14.03	6.61	14.18	0.165	0.6	0.45	264	
3	15		14.03	6.59	14.25	0.165	0.0	0.43	252	
4	20		14.05	6.60	14.25	0.164	0.0	0.41	250	
5	25		14.06	6.61	14.26	0.164	0.0	0.40	248	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW19-030320 03/03/20 1035

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

QA/QC Sample I.D.:

Sample Start Time: 1035 **End SampleTime:** 1040

COMMENTS:

PID: 0.0ppm

DAY2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-20

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: CLOUDY, MILD, TEMP. MID 50's **Sampling Date:** 03/03/20

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

Depth to Water: 16.08 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-20, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1310 **End Purge Time:** 1330

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		16.09	6.68	14.95	0.380	1.9	2.63	306	
1	5		16.09	6.82	14.99	0.379	0.0	2.42	305	
2	10		16.09	6.89	15.04	0.379	0.0	2.40	302	
3	15		16.09	6.90	15.03	0.377	0.0	2.41	302	
4	20		16.09	6.92	15.02	0.378	0.0	2.44	300	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW20-030320 03/03/20 1335

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

QA/QC Sample I.D.:

Sample Start Time: 1335 **End SampleTime:** 1340

COMMENTS:

PID: 0.0 ppm

USSE2 O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 1

WELL NO.: MW-21

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/02/20

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

Depth to Water: 6.07 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba-U-52, MiniRAE 3000

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										
0	0		6.07							

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

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

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

QA/QC Sample I.D.: _____

Sample Start Time: **End SampleTime:**

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-22

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/02/20

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

Depth to Water: 6.45 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1220 **End Purge Time:** 1240

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		6.47	7.06	12.00	0.308	0.0	3.00	262	
1	5		6.47	7.14	11.99	0.309	0.0	2.33	246	
2	10		6.47	7.19	12.06	0.309	0.0	1.65	244	
3	15		6.47	7.17	12.05	0.309	0.0	1.63	242	
4	20		6.47	7.18	12.05	0.309	0.0	1.62	241	

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW-22-030220 03/02/20 1245

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

QA/QC Sample I.D.:

Sample Start Time: 1245 **End SampleTime:** 1250

COMMENTS:

PID: 0.0 ppm

USSE2 O&M Services

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-23

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/02/20

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

Depth to Water: 10.03 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, Minirae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1425 **End Purge Time:** 1450

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		10.03	7.33	13.51	0.345	13.8	5.85	201	
1	5		10.03	7.52	13.64	0.345	19.0	5.40	209	
2	10		10.03	7.59	13.66	0.343	8.5	5.11	217	
3	15		10.03	7.64	13.74	0.338	1.3	4.93	226	
4	20		10.03	7.65	13.75	0.336	0.0	4.92	227	
5	25		10.03	7.65	13.76	0.334	0.0	4.90	225	

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW-23-030220 03/02/20 1455

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

QA/QC Sample I.D.:

Sample Start Time: 1455 **End SampleTime:** 1500

COMMENTS:

PID: 0.0 ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-24

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. High 30's **Sampling Date:** 03/05/20

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

Depth to Water: 18.55 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0835 **End Purge Time:** 0900

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		18.60	6.60	12.79	0.338	10.5	2.36	290	
1	5		18.60	6.89	12.82	0.342	11.3	2.01	284	
2	10		18.60	7.17	12.82	0.344	6.8	1.74	278	
3	15		18.60	7.30	12.88	0.343	5.6	1.62	275	
4	20		18.60	7.31	12.89	0.342	5.3	1.60	273	
5	25		18.60	7.32	12.90	0.341	5.1	1.59	272	

Dave Hreha 03/05/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW24-030520 03/05/20 0905

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

QA/QC Sample I.D.:

Sample Start Time: 0905 **End SampleTime:** 0910

COMMENTS: Water in well, Syphoned out.

PID: 0.0 ppm

DAY 2

USSE2 S&E O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-25

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Mid 40's **Sampling Date:** 03/03/20

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

Depth to Water: 9.40 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, Mini Rae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0805 **End Purge Time:** 0830

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		9.22	7.36	12.18	0.208	35.0	4.67	228	
1	5		9.08	7.13	12.39	0.207	42.3	3.71	243	
2	10		9.05	7.06	12.43	0.207	35.9	3.00	247	
3	15		9.06	6.98	12.64	0.205	11.7	2.39	252	
4	20		9.07	6.97	12.63	0.204	5.0	2.13	254	
5	25		9.06	6.96	12.63	0.204	0.0	1.87	256	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW25-030320 03/03/20 0835

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

QA/QC Sample I.D.:

Sample Start Time: 0835 **End SampleTime:** 0840

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-26

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. Low 40's **Sampling Date:** 03/02/20

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

Depth to Water: 11.55 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1000 **End Purge Time:** 1020

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		12.70	6.92	13.71	0.285	33.0	2.38	245	
1	5		12.40	6.93	13.71	0.284	32.5	2.40	244	
2	10		12.15	6.94	13.72	0.283	11.7	2.39	244	
3	15		11.90	6.94	13.71	0.281	0.0	2.38	244	
4	20		11.90	6.94	13.70	0.280	0.0	2.37	245	

Dave Hreha 03/02/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW-26-030220 03/02/20 1025

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

QA/QC Sample I.D.:

Sample Start Time: 1025 **End SampleTime:** 1030

COMMENTS:

PID: 0.0ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-27

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. Lows 40's **Sampling Date:** 03/05/20

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

Depth to Water: 9.18 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0910 **End Purge Time:** 0930

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		9.60	7.29	12.01	0.293	0.60	6.20	292	
1	5		9.65	7.17	12.57	0.293	2.8	5.82	296	
2	10		9.66	7.15	12.82	0.293	1.6	5.62	296	
3	15		9.66	7.13	12.80	0.294	0.0	5.51	297	
4	20		9.66	7.12	12.81	0.292	0.0	5.49	298	

Dave Hreha 03/05/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW27-030520 03/05/20 0935

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

QA/QC Sample I.D.:

Sample Start Time: 0935 **End SampleTime:** 0940

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-28

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: SUNNY, MILD, TEMP. MID 50's **Sampling Date:** 03/04/20

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

Depth to Water: 4.05 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1330 **End Purge Time:** 1355

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		4.97	7.37	16.94	0.127	0.0	5.49	211	
1	5		4.90	7.35	17.93	0.128	0.0	4.94	218	
2	10		4.85	7.38	17.94	0.128	0.0	4.77	219	
3	15		4.77	7.40	17.69	0.128	0.0	4.64	220	
4	20		4.70	7.42	17.69	0.127	0.0	4.62	222	
5	25		4.69	7.43	17.67	0.125	0.0	4.60	223	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW28-030420 03/04/20 1400

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

QA/QC Sample I.D.:

Sample Start Time: 1400 **End SampleTime:** 1405

COMMENTS:

PID: 0.0 ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-29

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Mild, Temp. Low 60's **Sampling Date:** 03/03/20

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: Horiba U-52, MiniRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1425 **End Purge Time:** 1455

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		8.02	6.99	16.01	0.533	59.0	2.05	-20	
1	5		8.08	7.13	16.31	0.533	50.9	1.62	-58	
2	10		7.82	7.19	16.49	0.535	52.0	1.54	-65	
3	15		7.78	7.20	16.50	0.539	39.9	1.37	-65	
4	20		7.77	7.21	16.51	0.541	36.9	1.47	-64	
5	25		7.76	7.24	16.52	0.546	30.5	1.73	-63	
6	30		7.76	7.25	16.52	0.546	30.7	1.73	-62	

Dave Hreha 03/03/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW29-030320 03/03/20 1500

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

QA/QC Sample I.D.:

Sample Start Time: 1500 **End SampleTime:** 1505

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-30

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: SUNNY, MILD, TEMP, LOW 40'S **Sampling Date:** 03/04/20

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

Depth to Water: 12.42 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, MINIRAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0855 **End Purge Time:** 0920

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		12.78	6.67	12.72	0.336	7.2	2.33	-15	
1	5		12.60	6.93	12.84	0.337	7.6	2.19	-41	
2	10		12.47	7.17	12.60	0.341	5.3	2.33	-76	
3	15		12.43	7.29	12.55	0.345	3.9	2.27	-90	
4	20		12.40	7.31	12.54	0.347	3.8	2.25	-93	
5	25		12.40	7.33	12.53	0.347	3.8	2.23	-95	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW 30 - 030420 03/04/20 0925

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

QA/QC Sample I.D.:

Sample Start Time: 0925 **End SampleTime:** 0930

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-31

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. High 40's **Sampling Date:** 03/04/20

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

Depth to Water: 10.02 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, Mini RAE 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0935 **End Purge Time:** 0955

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		10.10	7.29	12.92	0.399	1.70	2.07	-77	
1	5		10.05	7.39	12.94	0.400	1.30	2.29	-90	
2	10		10.05	7.44	12.82	0.400	0.0	1.09	-91	
3	15		10.05	7.45	12.81	0.401	0.0	0.99	-95	
4	20		10.05	7.46	12.80	0.401	0.0	0.97	-97	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW31-030420 03/04/20 1000

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

QA/QC Sample I.D.:

Sample Start Time: 1000 **End SampleTime:** 1005

COMMENTS:

PID: 0.1 ppm

USSE2 O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 3

WELL NO.: MW-100

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. High 50's **Sampling Date:** 03/04/20

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

Depth to Water: 7.75 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1720 **End Purge Time:** 1740

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		7.75	7.42	15.28	0.470	0.0	1.35	267	
1	5		7.75	7.35	15.43	0.470	0.7	1.06	267	
2	10		7.75	7.26	15.57	0.470	5.3	1.14	266	
3	15		7.75	7.24	15.55	0.472	6.4	1.16	266	
4	20		7.75	7.23	15.45	0.471	6.6	1.14	266	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW100-030420 03/04/20 1745

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

QA/QC Sample I.D.: _____

Sample Start Time: 1745 **End SampleTime:** 1750

COMMENTS: Water in Well. Syphoned out Water

PID: 0.0 ppm

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 3

WELL NO.: MW-101

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. High 50's **Sampling Date:** 03/04/20

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

Depth to Water: 7.90 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1650 **End Purge Time:** 1710

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		7.95	7.43	16.03	0.547	0.0	2.92	263	
1	5		7.93	7.35	16.12	0.538	0.0	2.36	267	
2	10		7.91	7.37	16.18	0.531	0.0	2.31	265	
3	15		7.90	7.35	16.16	0.531	0.0	2.30	266	
4	20		7.90	7.34	16.14	0.531	0.0	2.29	267	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW101-030420 03/04/20 1715

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

QA/QC Sample I.D.:

Sample Start Time: 1715 **End SampleTime:** 1720

COMMENTS: Well had water present syphoned it out.

PID: 0.0 ppm

DAY3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-102

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. High 50's **Sampling Date:** 03/04/20

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

Depth to Water: 7.02 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1620 **End Purge Time:** 1640

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		7.03	7.35	14.86	0.511	0.0	2.34	267	
1	5		7.03	7.38	15.24	0.478	0.0	2.49	265	
2	10		7.03	7.43	15.47	0.469	0.0	2.83	268	
3	15		7.03	7.42	15.45	0.471	0.0	2.80	267	
4	20		7.03	7.41	15.44	0.469	0.0	2.79	266	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW102-030420 03/04/20 1645

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

QA/QC Sample I.D.:

Sample Start Time: 1645 **End SampleTime:** 1650

COMMENTS: Water in well. Syphoned it out.

PID: 0.0 ppm

DAY 3

USSE2 O&M Services

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-103

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Mild, Temp. High 50's **Sampling Date:** 03/04/20

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

Depth to Water: 6.15 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, MiniRae 3000

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1540 **End Purge Time:** 1600

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		6.15	7.37	15.69	0.321	0.0	14.35	249	
1	5		6.15	7.35	15.66	0.320	0.0	3.53	254	
2	10		6.15	7.32	15.56	0.320	0.0	3.19	256	
3	15		6.15	7.31	15.55	0.320	0.0	3.17	258	
4	20		6.15	7.33	15.56	0.322	0.0	3.16	259	

Dave Hreha 03/04/20

SAMPLE COLLECTION DATA Jed Smith/Dave Hreha

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

Sample I.D. (Name, Date, Time): MW103-030420 03/04/20 1605

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

QA/QC Sample I.D.:

Sample Start Time: 1605 **End SampleTime:** 1610

COMMENTS: Well Was Buried!

PID: 0.0 ppm

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-23

Project No.: _____ **Client:** NETL-Albany

Project Name: First SA Wet Season Event 2020 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. Low 40's **Sampling Date:** 03/10/20

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

Depth to Water: 19.00 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: _____

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

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

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

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		19.00							

Robert Hughes 03/10/20

SAMPLE COLLECTION DATA Elizabeth Youngblood/Jason Somes

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

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

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

QA/QC Sample I.D.: _____

Sample Start Time: **End SampleTime:**

COMMENTS:

PID: 0.0ppm

Appendix B.
Test America Laboratories
Analytical Reports

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-93265-1
Client Project/Site: Dept of Energy- NETL - Albany, OR
Revision: 1

For:
USSE2 O&M Services, LLC
3592 Collins Ferry Road
Suite 130
Morgantown, West Virginia 26505

Attn: Jedediah Smith

Authorized for release by:
3/25/2020 11:30:55 AM

Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 580-93265-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-93265-1 RE

Note
This report has been revised. The incorrect sample date was logged in for samples MW8. MW9, MW19, and MW25.

Receipt
The samples were received on 3/6/2020 11:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
The following samples were diluted to bring the concentration of target analytes within the calibration range: MW20-030320 (580-93265-14), MW18-030420 (580-93265-22), and MW15-030520 (580-93265-31). Elevated reporting limits (RLs) are provided.

Sample MW18-030420 (580-93265-22) had Carbon Tetrachloride reported as an estimate value (E flag). The reported result is slightly above the calibration range. Insufficient sample volume remained for re-analysis.

The CCVIS, LCS and LCSD associated with sample MW18-030420 (580-93265-22) recovered outside lower control criteria for Chlorodibromomethane and trans-1,3-Dichloropropene. A peak is detected in the CCVL for both of these analytes and no peaks were present in the sample. This sample has been reanalyzed with concurring results and no remaining volume to run again; the data have been reported and flagged.

The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 580-324766 recovered outside control limits for the following analyte: Bromoform. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-324644 was outside criteria for the following analyte: Chloroethane. 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 continuing calibration verification (CCV) associated with batch 580-324681 recovered outside acceptance criteria, low biased, for Bromoform. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-324681 was outside criteria for the following analyte(s): Chloroethane. 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 580-324681 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane and Chloromethane. Dichlorodifluoromethane and Chloromethane have 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 BFB tune report associated with analytical batch 580-324681 of m/z 50 failing ; Ion Abundance Criteria show 15 to 40% of m/z 95 and % Relative Abundance show 14.8*. This value meets method criteria and is the result of a rounding/significant figure precision error. The data have been reported.

The CCV for analytical batch 580-324766 recovered outside control limits for the following analyte: Bromoform. This analyte 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 minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-324877 was outside criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Job ID: 580-93265-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

Definitions/Glossary

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F7	MS/MSD RPD exceeds control limits. Sample size differs by <10%
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW13-030220
Date Collected: 03/02/20 09:10
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 18:41	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 18:41	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 18:41	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 18:41	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 18:41	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 18:41	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 18:41	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 18:41	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 18:41	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 18:41	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 18:41	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 18:41	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 18:41	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 18:41	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 18:41	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 18:41	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 18:41	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 18:41	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 18:41	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 18:41	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 18:41	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 18:41	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 18:41	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 18:41	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 18:41	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 18:41	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 18:41	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 18:41	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 18:41	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 18:41	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 18:41	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 18:41	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 18:41	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 18:41	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 18:41	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 18:41	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 18:41	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 18:41	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 18:41	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 18:41	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 18:41	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 18:41	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 18:41	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 18:41	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 18:41	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 18:41	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 18:41	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 18:41	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 18:41	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW13-030220
Lab Sample ID: 580-93265-1
Date Collected: 03/02/20 09:10
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 18:41	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 18:41	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 18:41	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 18:41	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 18:41	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 18:41	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 18:41	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 18:41	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 18:41	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 18:41	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 126*		*03/09/20 18:41*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/09/20 18:41*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/09/20 18:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/09/20 18:41*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/09/20 18:41*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW14-030220
Date Collected: 03/02/20 09:50
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 19:08	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 19:08	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 19:08	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 19:08	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 19:08	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 19:08	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 19:08	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 19:08	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 19:08	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 19:08	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 19:08	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 19:08	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 19:08	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 19:08	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 19:08	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 19:08	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 19:08	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 19:08	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 19:08	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 19:08	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 19:08	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 19:08	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 19:08	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 19:08	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 19:08	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 19:08	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 19:08	1
Carbon tetrachloride	**0.40**	**J**	3.0	0.30	ug/L			03/09/20 19:08	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 19:08	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 19:08	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 19:08	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 19:08	1
Chloroform	**2.0**	**J**	5.0	0.50	ug/L			03/09/20 19:08	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 19:08	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 19:08	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 19:08	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 19:08	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 19:08	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 19:08	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 19:08	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 19:08	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 19:08	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 19:08	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 19:08	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 19:08	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 19:08	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 19:08	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 19:08	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 19:08	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW14-030220
Lab Sample ID: 580-93265-2
Date Collected: 03/02/20 09:50
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 19:08	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 19:08	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 19:08	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 19:08	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 19:08	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 19:08	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 19:08	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 19:08	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 19:08	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 19:08	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 126*		*03/09/20 19:08*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/09/20 19:08*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/09/20 19:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/09/20 19:08*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*03/09/20 19:08*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW26-030220
Date Collected: 03/02/20 10:25
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 19:35	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 19:35	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 19:35	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 19:35	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 19:35	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 19:35	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 19:35	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 19:35	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 19:35	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 19:35	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 19:35	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 19:35	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 19:35	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 19:35	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 19:35	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 19:35	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 19:35	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 19:35	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 19:35	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 19:35	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 19:35	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 19:35	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 19:35	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 19:35	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 19:35	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 19:35	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 19:35	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 19:35	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 19:35	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 19:35	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 19:35	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 19:35	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 19:35	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 19:35	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 19:35	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 19:35	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 19:35	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 19:35	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 19:35	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 19:35	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 19:35	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 19:35	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 19:35	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 19:35	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 19:35	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 19:35	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 19:35	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 19:35	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 19:35	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW26-030220
Lab Sample ID: 580-93265-3
Date Collected: 03/02/20 10:25
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 19:35	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 19:35	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 19:35	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 19:35	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 19:35	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 19:35	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 19:35	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 19:35	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 19:35	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 19:35	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 126*		*03/09/20 19:35*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/09/20 19:35*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*03/09/20 19:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/09/20 19:35*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 120*		*03/09/20 19:35*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW3-030220
Date Collected: 03/02/20 11:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 20:02	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 20:02	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 20:02	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 20:02	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 20:02	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 20:02	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 20:02	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 20:02	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 20:02	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 20:02	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 20:02	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 20:02	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 20:02	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 20:02	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 20:02	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 20:02	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 20:02	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 20:02	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 20:02	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 20:02	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 20:02	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 20:02	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 20:02	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 20:02	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 20:02	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 20:02	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 20:02	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 20:02	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 20:02	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 20:02	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 20:02	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 20:02	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 20:02	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 20:02	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 20:02	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 20:02	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 20:02	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 20:02	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 20:02	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 20:02	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 20:02	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 20:02	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 20:02	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 20:02	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 20:02	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 20:02	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 20:02	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 20:02	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 20:02	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW3-030220
Lab Sample ID: 580-93265-4
Date Collected: 03/02/20 11:00
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 20:02	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 20:02	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 20:02	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 20:02	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 20:02	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 20:02	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 20:02	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 20:02	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 20:02	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 20:02	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 126*		*03/09/20 20:02*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*03/09/20 20:02*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/09/20 20:02*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/09/20 20:02*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*03/09/20 20:02*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW22-030220
Date Collected: 03/02/20 12:45
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 20:29	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 20:29	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 20:29	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 20:29	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 20:29	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 20:29	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 20:29	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 20:29	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 20:29	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 20:29	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 20:29	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 20:29	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 20:29	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 20:29	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 20:29	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 20:29	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 20:29	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 20:29	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 20:29	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 20:29	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 20:29	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 20:29	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 20:29	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 20:29	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 20:29	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 20:29	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 20:29	1
Carbon tetrachloride	**16**		3.0	0.30	ug/L			03/09/20 20:29	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 20:29	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 20:29	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 20:29	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 20:29	1
Chloroform	**2.7**	**J**	5.0	0.50	ug/L			03/09/20 20:29	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 20:29	1
cis-1,2-Dichloroethene	**2.1**	**J**	3.0	0.69	ug/L			03/09/20 20:29	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 20:29	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 20:29	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 20:29	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 20:29	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 20:29	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 20:29	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 20:29	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 20:29	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 20:29	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 20:29	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 20:29	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 20:29	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 20:29	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 20:29	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW22-030220
Lab Sample ID: 580-93265-5
Date Collected: 03/02/20 12:45
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 20:29	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 20:29	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 20:29	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 20:29	1
Tetrachloroethene	**1.2**	**J**	3.0	0.41	ug/L			03/09/20 20:29	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 20:29	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 20:29	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 20:29	1
Trichloroethene	**7.8**		3.0	0.85	ug/L			03/09/20 20:29	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 20:29	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 126*		*03/09/20 20:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/09/20 20:29*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/09/20 20:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/09/20 20:29*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/09/20 20:29*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW23-030220
Date Collected: 03/02/20 14:55
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 20:57	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 20:57	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 20:57	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 20:57	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 20:57	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 20:57	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 20:57	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 20:57	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 20:57	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 20:57	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 20:57	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 20:57	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 20:57	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 20:57	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 20:57	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 20:57	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 20:57	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 20:57	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 20:57	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 20:57	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 20:57	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 20:57	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 20:57	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 20:57	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 20:57	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 20:57	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 20:57	1
Carbon tetrachloride	**3.4**		3.0	0.30	ug/L			03/09/20 20:57	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 20:57	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 20:57	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 20:57	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 20:57	1
Chloroform	**3.9**	**J**	5.0	0.50	ug/L			03/09/20 20:57	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 20:57	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 20:57	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 20:57	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 20:57	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 20:57	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 20:57	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 20:57	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 20:57	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 20:57	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 20:57	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 20:57	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 20:57	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 20:57	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 20:57	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 20:57	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 20:57	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW23-030220
Lab Sample ID: 580-93265-6
Date Collected: 03/02/20 14:55
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 20:57	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 20:57	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 20:57	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 20:57	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 20:57	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 20:57	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 20:57	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 20:57	1
Trichloroethene	**2.1**	**J**	3.0	0.85	ug/L			03/09/20 20:57	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 20:57	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 126*		*03/09/20 20:57*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/09/20 20:57*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/09/20 20:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/09/20 20:57*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*03/09/20 20:57*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW17-030220
Date Collected: 03/02/20 15:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 21:24	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 21:24	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 21:24	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 21:24	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 21:24	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 21:24	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 21:24	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 21:24	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 21:24	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 21:24	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 21:24	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 21:24	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 21:24	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 21:24	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 21:24	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 21:24	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 21:24	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 21:24	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 21:24	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 21:24	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 21:24	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 21:24	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 21:24	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 21:24	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 21:24	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 21:24	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 21:24	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 21:24	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 21:24	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 21:24	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 21:24	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 21:24	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 21:24	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 21:24	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 21:24	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 21:24	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 21:24	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 21:24	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 21:24	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 21:24	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 21:24	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 21:24	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 21:24	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 21:24	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 21:24	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 21:24	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 21:24	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 21:24	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 21:24	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW17-030220
Lab Sample ID: 580-93265-7
Date Collected: 03/02/20 15:35
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 21:24	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 21:24	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 21:24	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 21:24	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 21:24	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 21:24	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 21:24	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 21:24	1
Trichloroethene	**1.2**	**J**	3.0	0.85	ug/L			03/09/20 21:24	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 21:24	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 126*		*03/09/20 21:24*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/09/20 21:24*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/09/20 21:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/09/20 21:24*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 120*		*03/09/20 21:24*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW25-030220
Date Collected: 03/03/20 08:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 21:51	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 21:51	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 21:51	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 21:51	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 21:51	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 21:51	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 21:51	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 21:51	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 21:51	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 21:51	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 21:51	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 21:51	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 21:51	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 21:51	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 21:51	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 21:51	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 21:51	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 21:51	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 21:51	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 21:51	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 21:51	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 21:51	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 21:51	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 21:51	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 21:51	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 21:51	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 21:51	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 21:51	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 21:51	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 21:51	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 21:51	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 21:51	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 21:51	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 21:51	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 21:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 21:51	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 21:51	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 21:51	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 21:51	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 21:51	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 21:51	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 21:51	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 21:51	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 21:51	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 21:51	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 21:51	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 21:51	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 21:51	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 21:51	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW25-030220
Lab Sample ID: 580-93265-8
Date Collected: 03/03/20 08:35
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 21:51	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 21:51	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 21:51	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 21:51	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 21:51	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 21:51	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 21:51	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 21:51	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 21:51	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 21:51	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 126*		*03/09/20 21:51*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/09/20 21:51*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/09/20 21:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/09/20 21:51*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*03/09/20 21:51*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW8-030220
Date Collected: 03/03/20 09:10
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 22:18	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 22:18	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 22:18	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 22:18	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 22:18	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 22:18	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 22:18	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 22:18	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 22:18	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 22:18	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 22:18	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 22:18	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 22:18	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 22:18	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 22:18	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 22:18	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 22:18	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 22:18	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 22:18	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 22:18	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 22:18	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 22:18	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 22:18	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 22:18	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 22:18	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 22:18	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 22:18	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 22:18	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 22:18	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 22:18	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 22:18	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 22:18	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 22:18	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 22:18	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 22:18	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 22:18	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 22:18	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 22:18	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 22:18	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 22:18	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 22:18	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 22:18	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 22:18	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 22:18	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 22:18	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 22:18	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 22:18	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 22:18	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 22:18	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW8-030220
Lab Sample ID: 580-93265-9
Date Collected: 03/03/20 09:10
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 22:18	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 22:18	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 22:18	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 22:18	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 22:18	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 22:18	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 22:18	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 22:18	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 22:18	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 22:18	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 126*		*03/09/20 22:18*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/09/20 22:18*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*03/09/20 22:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/09/20 22:18*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 120*		*03/09/20 22:18*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW9-030220
Date Collected: 03/03/20 09:50
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 22:45	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 22:45	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 22:45	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 22:45	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 22:45	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 22:45	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 22:45	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 22:45	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 22:45	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 22:45	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 22:45	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 22:45	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 22:45	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 22:45	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 22:45	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 22:45	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 22:45	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 22:45	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 22:45	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 22:45	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 22:45	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 22:45	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 22:45	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 22:45	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 22:45	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 22:45	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 22:45	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 22:45	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 22:45	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 22:45	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 22:45	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 22:45	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 22:45	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 22:45	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 22:45	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 22:45	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 22:45	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 22:45	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 22:45	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 22:45	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 22:45	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 22:45	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 22:45	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 22:45	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 22:45	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 22:45	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 22:45	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 22:45	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 22:45	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW9-030220
Lab Sample ID: 580-93265-10
Date Collected: 03/03/20 09:50
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 22:45	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 22:45	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 22:45	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 22:45	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 22:45	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 22:45	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 22:45	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 22:45	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 22:45	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 22:45	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 126*		*03/09/20 22:45*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/09/20 22:45*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*03/09/20 22:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/09/20 22:45*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/09/20 22:45*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW19-030220
Date Collected: 03/03/20 10:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 23:13	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 23:13	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 23:13	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 23:13	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 23:13	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 23:13	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 23:13	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 23:13	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 23:13	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 23:13	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 23:13	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 23:13	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 23:13	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 23:13	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 23:13	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 23:13	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 23:13	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 23:13	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 23:13	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 23:13	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 23:13	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 23:13	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 23:13	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 23:13	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 23:13	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 23:13	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 23:13	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 23:13	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 23:13	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 23:13	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 23:13	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 23:13	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 23:13	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 23:13	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 23:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 23:13	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 23:13	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 23:13	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 23:13	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 23:13	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 23:13	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 23:13	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 23:13	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 23:13	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 23:13	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 23:13	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 23:13	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 23:13	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 23:13	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW19-030220
Lab Sample ID: 580-93265-11
Date Collected: 03/03/20 10:35
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 23:13	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 23:13	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 23:13	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 23:13	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 23:13	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 23:13	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 23:13	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 23:13	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 23:13	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 23:13	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/09/20 23:13*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*03/09/20 23:13*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/09/20 23:13*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/09/20 23:13*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 120*		*03/09/20 23:13*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW-10-030320
Date Collected: 03/03/20 13:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	F1 F2	2.0	0.18	ug/L			03/12/20 06:55	1
1,1,1-Trichloroethane	ND	F1 F2	3.0	0.39	ug/L			03/12/20 06:55	1
1,1,2,2-Tetrachloroethane	ND	F1 F2	3.0	0.52	ug/L			03/12/20 06:55	1
1,1,2-Trichloroethane	ND	F1	1.0	0.24	ug/L			03/12/20 06:55	1
1,1-Dichloroethane	ND	F1	2.0	0.22	ug/L			03/12/20 06:55	1
1,1-Dichloroethene	ND	F1	4.0	0.78	ug/L			03/12/20 06:55	1
1,1-Dichloropropene	ND	F1 F2	3.0	0.29	ug/L			03/12/20 06:55	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 06:55	1
1,2,3-Trichloropropane	ND	F1	2.0	0.41	ug/L			03/12/20 06:55	1
1,2,4-Trichlorobenzene	ND	F1	2.0	0.33	ug/L			03/12/20 06:55	1
1,2-Dibromo-3-Chloropropane	ND	F1 F2	10	1.8	ug/L			03/12/20 06:55	1
1,2-Dichlorobenzene	ND	F1 F2	2.0	0.46	ug/L			03/12/20 06:55	1
1,2-Dichloroethane	ND	F1 F2	2.0	0.53	ug/L			03/12/20 06:55	1
1,2-Dichloropropane	ND	F1	1.0	0.18	ug/L			03/12/20 06:55	1
1,3,5-Trimethylbenzene	ND	F1 F2	3.0	0.55	ug/L			03/12/20 06:55	1
1,3-Dichlorobenzene	ND	F1 F2	2.0	0.18	ug/L			03/12/20 06:55	1
1,3-Dichloropropane	ND	F1	2.0	0.35	ug/L			03/12/20 06:55	1
1,4-Dichlorobenzene	ND	F1 F2	4.0	0.98	ug/L			03/12/20 06:55	1
2,2-Dichloropropane	ND	F1	3.0	0.32	ug/L			03/12/20 06:55	1
2-Chlorotoluene	ND	F1 F2	3.0	0.51	ug/L			03/12/20 06:55	1
4-Chlorotoluene	ND	F1 F2	2.0	0.51	ug/L			03/12/20 06:55	1
4-Isopropyltoluene	ND	F1 F2	3.0	0.28	ug/L			03/12/20 06:55	1
Benzene	ND	F1 F2	3.0	0.53	ug/L			03/12/20 06:55	1
Bromobenzene	ND	F1 F2	2.0	0.43	ug/L			03/12/20 06:55	1
Bromoform	ND	F1 F2	3.0	0.56	ug/L			03/12/20 06:55	1
Bromomethane	ND	F1	6.0	1.1	ug/L			03/12/20 06:55	1
Carbon tetrachloride	ND	F1 F2	3.0	0.30	ug/L			03/12/20 06:55	1
Chlorobenzene	ND	F1 F2	2.0	0.44	ug/L			03/12/20 06:55	1
Chlorobromomethane	ND	F1 F2	2.0	0.29	ug/L			03/12/20 06:55	1
Chlorodibromomethane	ND	F1 F2	2.0	0.50	ug/L			03/12/20 06:55	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 06:55	1
Chloroform	ND	F1	5.0	0.50	ug/L			03/12/20 06:55	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 06:55	1
cis-1,2-Dichloroethene	ND	F1 F2	3.0	0.69	ug/L			03/12/20 06:55	1
cis-1,3-Dichloropropene	ND	F1 F2	1.0	0.20	ug/L			03/12/20 06:55	1
Dibromomethane	ND	F1 F2	2.0	0.34	ug/L			03/12/20 06:55	1
Dichlorobromomethane	ND	F1 F2	2.0	0.14	ug/L			03/12/20 06:55	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 06:55	1
Ethylene Dibromide	ND	F1 F2	2.0	0.40	ug/L			03/12/20 06:55	1
Hexachlorobutadiene	ND	F1 F2	6.0	0.79	ug/L			03/12/20 06:55	1
Isopropylbenzene	ND	F1 F2	2.0	0.51	ug/L			03/12/20 06:55	1
Methyl tert-butyl ether	ND	F1 F2	2.0	0.44	ug/L			03/12/20 06:55	1
Methylene Chloride	ND	F1	5.0	1.4	ug/L			03/12/20 06:55	1
n-Butylbenzene	ND	F1 F2	3.0	0.44	ug/L			03/12/20 06:55	1
N-Propylbenzene	ND	F1 F2	3.0	0.50	ug/L			03/12/20 06:55	1
o-Xylene	ND	F1 F2	2.0	0.39	ug/L			03/12/20 06:55	1
sec-Butylbenzene	ND	F1 F2	3.0	0.49	ug/L			03/12/20 06:55	1
Styrene	ND	F1 F2	5.0	1.0	ug/L			03/12/20 06:55	1
tert-Butylbenzene	ND	F1 F2	3.0	0.58	ug/L			03/12/20 06:55	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW-10-030320
Date Collected: 03/03/20 13:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	F1 F2	3.0	0.41	ug/L			03/12/20 06:55	1
Toluene	ND	F1 F2	2.0	0.39	ug/L			03/12/20 06:55	1
trans-1,2-Dichloroethene	ND	F1	3.0	0.39	ug/L			03/12/20 06:55	1
trans-1,3-Dichloropropene	ND	F1 F2	1.0	0.16	ug/L			03/12/20 06:55	1
Trichloroethene	ND	F1 F2	3.0	0.85	ug/L			03/12/20 06:55	1
Trichlorofluoromethane	ND	F1	3.0	0.63	ug/L			03/12/20 06:55	1
Vinyl chloride	ND	F1	1.0	0.22	ug/L			03/12/20 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/12/20 06:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*03/12/20 06:55*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/12/20 06:55*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/12/20 06:55*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/12/20 06:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND	F1 F2	3.0	0.61	ug/L			03/17/20 12:57	1
Ethylbenzene	ND	F1 F2	3.0	0.50	ug/L			03/17/20 12:57	1
m-Xylene & p-Xylene	ND	F1 F2	3.0	0.75	ug/L			03/17/20 12:57	1
Naphthalene	ND	F1 F2	4.0	0.93	ug/L			03/17/20 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 126*		*03/17/20 12:57*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/17/20 12:57*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/17/20 12:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/17/20 12:57*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*03/17/20 12:57*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW-10-030320-Duplicate
Date Collected: 03/03/20 13:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 08:17	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 08:17	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 08:17	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 08:17	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 08:17	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 08:17	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 08:17	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 08:17	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 08:17	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 08:17	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 08:17	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 08:17	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 08:17	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 08:17	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 08:17	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 08:17	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 08:17	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 08:17	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 08:17	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 08:17	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 08:17	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 08:17	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 08:17	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 08:17	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 08:17	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 08:17	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 08:17	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 08:17	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 08:17	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 08:17	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 08:17	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 08:17	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 08:17	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 08:17	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 08:17	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 08:17	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 08:17	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 08:17	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 08:17	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 08:17	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 08:17	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 08:17	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 08:17	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 08:17	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 08:17	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 08:17	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 08:17	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 08:17	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 08:17	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW-10-030320-Duplicate
Lab Sample ID: 580-93265-13
Date Collected: 03/03/20 13:00
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 08:17	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 08:17	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 08:17	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 08:17	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 08:17	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 08:17	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 08:17	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 08:17	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 08:17	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 08:17	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 126*		*03/12/20 08:17*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/12/20 08:17*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*03/12/20 08:17*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/12/20 08:17*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/12/20 08:17*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW20-030320
Date Collected: 03/03/20 13:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 08:44	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 08:44	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 08:44	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 08:44	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 08:44	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 08:44	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 08:44	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 08:44	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 08:44	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 08:44	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 08:44	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 08:44	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 08:44	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 08:44	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 08:44	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 08:44	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 08:44	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 08:44	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 08:44	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 08:44	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 08:44	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 08:44	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 08:44	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 08:44	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 08:44	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 08:44	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 08:44	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 08:44	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 08:44	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 08:44	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 08:44	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 08:44	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 08:44	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 08:44	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 08:44	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 08:44	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 08:44	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 08:44	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 08:44	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 08:44	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 08:44	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 08:44	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 08:44	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 08:44	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 08:44	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 08:44	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 08:44	1
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 08:44	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 08:44	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW20-030320
Date Collected: 03/03/20 13:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	1.0	ug/L			03/12/20 08:44	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 08:44	1
Tetrachloroethene	**11**		3.0	0.41	ug/L			03/12/20 08:44	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 08:44	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 08:44	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 08:44	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 08:44	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/12/20 08:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/12/20 08:44*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/12/20 08:44*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/12/20 08:44*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/12/20 08:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**2200**		150	15	ug/L			03/13/20 04:35	50
Chloroform	**220**	**J**	250	25	ug/L			03/13/20 04:35	50
Trichloroethene	**270**		150	43	ug/L			03/13/20 04:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/13/20 04:35*	*50*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/13/20 04:35*	*50*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*03/13/20 04:35*	*50*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/13/20 04:35*	*50*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/13/20 04:35*	*50*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW4-030320
Date Collected: 03/03/20 14:20
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 09:11	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 09:11	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 09:11	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 09:11	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 09:11	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 09:11	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 09:11	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 09:11	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 09:11	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 09:11	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 09:11	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 09:11	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 09:11	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 09:11	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 09:11	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 09:11	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 09:11	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 09:11	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 09:11	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 09:11	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 09:11	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 09:11	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 09:11	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 09:11	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 09:11	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 09:11	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 09:11	1
Carbon tetrachloride	**0.56**	**J**	3.0	0.30	ug/L			03/12/20 09:11	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 09:11	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 09:11	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 09:11	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 09:11	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 09:11	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 09:11	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 09:11	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 09:11	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 09:11	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 09:11	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 09:11	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 09:11	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 09:11	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 09:11	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 09:11	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 09:11	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 09:11	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 09:11	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 09:11	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 09:11	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 09:11	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW4-030320
Lab Sample ID: 580-93265-15
Date Collected: 03/03/20 14:20
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 09:11	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 09:11	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 09:11	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 09:11	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 09:11	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 09:11	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 09:11	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 09:11	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 09:11	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 09:11	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 126*		*03/12/20 09:11*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/12/20 09:11*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/12/20 09:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/12/20 09:11*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/12/20 09:11*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW29-030320
Date Collected: 03/03/20 15:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 09:38	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 09:38	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 09:38	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 09:38	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 09:38	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 09:38	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 09:38	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 09:38	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 09:38	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 09:38	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 09:38	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 09:38	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 09:38	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 09:38	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 09:38	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 09:38	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 09:38	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 09:38	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 09:38	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 09:38	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 09:38	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 09:38	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 09:38	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 09:38	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 09:38	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 09:38	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 09:38	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 09:38	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 09:38	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 09:38	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 09:38	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 09:38	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 09:38	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 09:38	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 09:38	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 09:38	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 09:38	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 09:38	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 09:38	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 09:38	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 09:38	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 09:38	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 09:38	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 09:38	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 09:38	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 09:38	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 09:38	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 09:38	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 09:38	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW29-030320
Date Collected: 03/03/20 15:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 09:38	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 09:38	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 09:38	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 09:38	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 09:38	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 09:38	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 09:38	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 09:38	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 09:38	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 09:38	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/12/20 09:38*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/12/20 09:38*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/12/20 09:38*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/12/20 09:38*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/12/20 09:38*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW6-030420
Date Collected: 03/04/20 08:45
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 10:05	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 10:05	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 10:05	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 10:05	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 10:05	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 10:05	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 10:05	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 10:05	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 10:05	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 10:05	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 10:05	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 10:05	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 10:05	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 10:05	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 10:05	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 10:05	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 10:05	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 10:05	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 10:05	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 10:05	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 10:05	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 10:05	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 10:05	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 10:05	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 10:05	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 10:05	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 10:05	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 10:05	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 10:05	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 10:05	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 10:05	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 10:05	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 10:05	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 10:05	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 10:05	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 10:05	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 10:05	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 10:05	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 10:05	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 10:05	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 10:05	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 10:05	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 10:05	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 10:05	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 10:05	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 10:05	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 10:05	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 10:05	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 10:05	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW6-030420
Lab Sample ID: 580-93265-17
Date Collected: 03/04/20 08:45
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 10:05	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 10:05	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 10:05	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 10:05	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 10:05	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 10:05	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 10:05	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 10:05	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 10:05	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 10:05	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/12/20 10:05*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/12/20 10:05*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/12/20 10:05*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/12/20 10:05*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/12/20 10:05*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW30-030420
Date Collected: 03/04/20 09:25
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 10:32	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 10:32	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 10:32	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 10:32	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 10:32	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 10:32	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 10:32	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 10:32	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 10:32	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 10:32	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 10:32	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 10:32	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 10:32	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 10:32	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 10:32	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 10:32	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 10:32	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 10:32	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 10:32	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 10:32	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 10:32	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 10:32	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 10:32	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 10:32	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 10:32	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 10:32	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 10:32	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 10:32	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 10:32	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 10:32	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 10:32	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 10:32	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 10:32	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 10:32	1
cis-1,2-Dichloroethene	**6.2**		3.0	0.69	ug/L			03/12/20 10:32	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 10:32	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 10:32	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 10:32	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 10:32	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 10:32	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 10:32	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 10:32	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 10:32	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 10:32	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 10:32	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 10:32	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 10:32	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 10:32	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 10:32	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW30-030420
Lab Sample ID: 580-93265-18
Date Collected: 03/04/20 09:25
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 10:32	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 10:32	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 10:32	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 10:32	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 10:32	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 10:32	1
trans-1,2-Dichloroethene	**0.56**	**J**	3.0	0.39	ug/L			03/12/20 10:32	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 10:32	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 10:32	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 10:32	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/12/20 10:32*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/12/20 10:32*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/12/20 10:32*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/12/20 10:32*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/12/20 10:32*	*1*

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW31-030420
Lab Sample ID: 580-93265-19
Date Collected: 03/04/20 10:00
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 10:59	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 10:59	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 10:59	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 10:59	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 10:59	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 10:59	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 10:59	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 10:59	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 10:59	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 10:59	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 10:59	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 10:59	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 10:59	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 10:59	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 10:59	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 10:59	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 10:59	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 10:59	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 10:59	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 10:59	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 10:59	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 10:59	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 10:59	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 10:59	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 10:59	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 10:59	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 10:59	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 10:59	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 10:59	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 10:59	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 10:59	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 10:59	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 10:59	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 10:59	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 10:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 10:59	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 10:59	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 10:59	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 10:59	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 10:59	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 10:59	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 10:59	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 10:59	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 10:59	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 10:59	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 10:59	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 10:59	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 10:59	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 10:59	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW31-030420
Lab Sample ID: 580-93265-19
Date Collected: 03/04/20 10:00
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 10:59	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 10:59	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 10:59	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 10:59	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 10:59	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 10:59	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 10:59	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 10:59	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 10:59	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 10:59	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/12/20 10:59*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/12/20 10:59*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/12/20 10:59*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/12/20 10:59*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/12/20 10:59*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW5-030420
Date Collected: 03/04/20 10:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 11:27	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 11:27	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 11:27	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 11:27	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 11:27	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 11:27	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 11:27	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 11:27	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 11:27	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 11:27	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 11:27	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 11:27	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 11:27	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 11:27	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 11:27	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 11:27	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 11:27	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 11:27	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 11:27	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 11:27	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 11:27	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 11:27	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 11:27	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 11:27	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 11:27	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 11:27	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 11:27	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 11:27	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 11:27	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 11:27	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 11:27	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 11:27	1
Chloroform	**0.89**	**J**	5.0	0.50	ug/L			03/12/20 11:27	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 11:27	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 11:27	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 11:27	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 11:27	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 11:27	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 11:27	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 11:27	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 11:27	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 11:27	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 11:27	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 11:27	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 11:27	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 11:27	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 11:27	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 11:27	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 11:27	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW5-030420
Lab Sample ID: 580-93265-20
Date Collected: 03/04/20 10:35
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 11:27	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 11:27	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 11:27	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 11:27	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 11:27	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 11:27	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 11:27	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 11:27	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 11:27	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 11:27	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 126*		*03/12/20 11:27*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/12/20 11:27*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/12/20 11:27*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/12/20 11:27*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/12/20 11:27*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW28-030420
Date Collected: 03/04/20 14:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 11:54	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 11:54	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 11:54	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 11:54	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 11:54	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 11:54	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 11:54	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 11:54	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 11:54	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 11:54	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 11:54	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 11:54	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 11:54	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 11:54	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 11:54	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 11:54	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 11:54	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 11:54	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 11:54	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 11:54	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 11:54	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 11:54	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 11:54	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 11:54	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 11:54	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 11:54	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 11:54	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 11:54	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 11:54	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 11:54	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 11:54	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 11:54	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 11:54	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 11:54	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 11:54	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 11:54	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 11:54	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 11:54	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 11:54	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 11:54	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 11:54	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 11:54	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 11:54	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 11:54	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 11:54	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 11:54	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 11:54	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 11:54	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 11:54	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW28-030420
Lab Sample ID: 580-93265-21
Date Collected: 03/04/20 14:00
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 11:54	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 11:54	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 11:54	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 11:54	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 11:54	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 11:54	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 11:54	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 11:54	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 11:54	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 11:54	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/12/20 11:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/12/20 11:54*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/12/20 11:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/12/20 11:54*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/12/20 11:54*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW18-030420
Date Collected: 03/04/20 14:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/11/20 22:48	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/11/20 22:48	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/11/20 22:48	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/11/20 22:48	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/11/20 22:48	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/11/20 22:48	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/11/20 22:48	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/11/20 22:48	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/11/20 22:48	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/11/20 22:48	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/11/20 22:48	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/11/20 22:48	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/11/20 22:48	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/11/20 22:48	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/11/20 22:48	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/11/20 22:48	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/11/20 22:48	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/11/20 22:48	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/11/20 22:48	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/11/20 22:48	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/11/20 22:48	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/11/20 22:48	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/11/20 22:48	1
Benzene	ND		3.0	0.53	ug/L			03/11/20 22:48	1
Bromobenzene	ND		2.0	0.43	ug/L			03/11/20 22:48	1
Bromomethane	ND		6.0	1.1	ug/L			03/11/20 22:48	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/11/20 22:48	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/11/20 22:48	1
Chloroethane	ND		5.0	1.1	ug/L			03/11/20 22:48	1
Chloromethane	ND		20	5.4	ug/L			03/11/20 22:48	1
cis-1,2-Dichloroethene	**2.0**	**J**	3.0	0.69	ug/L			03/11/20 22:48	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/11/20 22:48	1
Dibromomethane	ND		2.0	0.34	ug/L			03/11/20 22:48	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/11/20 22:48	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/11/20 22:48	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/11/20 22:48	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/11/20 22:48	1
Hexachlorobutadiene	**0.79**	**J**	6.0	0.79	ug/L			03/11/20 22:48	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/11/20 22:48	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/11/20 22:48	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/11/20 22:48	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/11/20 22:48	1
Naphthalene	ND		4.0	0.93	ug/L			03/11/20 22:48	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/11/20 22:48	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/11/20 22:48	1
o-Xylene	ND		2.0	0.39	ug/L			03/11/20 22:48	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/11/20 22:48	1
Styrene	ND		5.0	1.0	ug/L			03/11/20 22:48	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/11/20 22:48	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW18-030420
Date Collected: 03/04/20 14:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**120**		3.0	0.41	ug/L			03/11/20 22:48	1
Toluene	ND		2.0	0.39	ug/L			03/11/20 22:48	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/11/20 22:48	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/11/20 22:48	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/11/20 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 126*		*03/11/20 22:48*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/11/20 22:48*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/11/20 22:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/11/20 22:48*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 120*		*03/11/20 22:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**1600**	**E**	30	3.0	ug/L			03/13/20 05:02	10
Chloroform	**240**		50	5.0	ug/L			03/13/20 05:02	10
Trichloroethene	**150**		30	8.5	ug/L			03/13/20 05:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/13/20 05:02*	*10*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/13/20 05:02*	*10*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*03/13/20 05:02*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/13/20 05:02*	*10*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/13/20 05:02*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND	*	3.0	0.56	ug/L			03/13/20 05:56	1
Chlorodibromomethane	ND	*	2.0	0.50	ug/L			03/13/20 05:56	1
trans-1,3-Dichloropropene	ND	*	1.0	0.16	ug/L			03/13/20 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/13/20 05:56*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/13/20 05:56*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*03/13/20 05:56*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/13/20 05:56*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/13/20 05:56*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW103-030420
Date Collected: 03/04/20 16:05
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/11/20 23:16	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/11/20 23:16	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/11/20 23:16	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/11/20 23:16	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/11/20 23:16	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/11/20 23:16	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/11/20 23:16	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/11/20 23:16	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/11/20 23:16	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/11/20 23:16	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/11/20 23:16	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/11/20 23:16	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/11/20 23:16	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/11/20 23:16	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/11/20 23:16	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/11/20 23:16	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/11/20 23:16	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/11/20 23:16	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/11/20 23:16	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/11/20 23:16	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/11/20 23:16	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/11/20 23:16	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/11/20 23:16	1
Benzene	ND		3.0	0.53	ug/L			03/11/20 23:16	1
Bromobenzene	ND		2.0	0.43	ug/L			03/11/20 23:16	1
Bromomethane	ND		6.0	1.1	ug/L			03/11/20 23:16	1
Carbon tetrachloride	**0.46**	**J**	3.0	0.30	ug/L			03/11/20 23:16	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/11/20 23:16	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/11/20 23:16	1
Chloroethane	ND		5.0	1.1	ug/L			03/11/20 23:16	1
Chloroform	ND		5.0	0.50	ug/L			03/11/20 23:16	1
Chloromethane	ND		20	5.4	ug/L			03/11/20 23:16	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/11/20 23:16	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/11/20 23:16	1
Dibromomethane	ND		2.0	0.34	ug/L			03/11/20 23:16	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/11/20 23:16	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/11/20 23:16	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/11/20 23:16	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/11/20 23:16	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/11/20 23:16	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/11/20 23:16	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/11/20 23:16	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/11/20 23:16	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/11/20 23:16	1
Naphthalene	ND		4.0	0.93	ug/L			03/11/20 23:16	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/11/20 23:16	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/11/20 23:16	1
o-Xylene	ND		2.0	0.39	ug/L			03/11/20 23:16	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/11/20 23:16	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW103-030420
Date Collected: 03/04/20 16:05
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	1.0	ug/L			03/11/20 23:16	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/11/20 23:16	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/11/20 23:16	1
Toluene	ND		2.0	0.39	ug/L			03/11/20 23:16	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/11/20 23:16	1
Trichloroethene	ND		3.0	0.85	ug/L			03/11/20 23:16	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/11/20 23:16	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/11/20 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 126*		*03/11/20 23:16*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/11/20 23:16*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/11/20 23:16*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/11/20 23:16*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/11/20 23:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND	*	3.0	0.56	ug/L			03/13/20 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 126*		*03/13/20 04:08*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/13/20 04:08*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*03/13/20 04:08*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/13/20 04:08*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/13/20 04:08*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/17/20 14:19	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/17/20 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 126*		*03/17/20 14:19*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/17/20 14:19*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*03/17/20 14:19*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/17/20 14:19*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/17/20 14:19*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW102-030420
Date Collected: 03/04/20 16:45
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-24
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 18:33	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 18:33	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 18:33	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 18:33	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 18:33	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 18:33	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 18:33	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 18:33	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 18:33	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 18:33	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 18:33	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 18:33	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 18:33	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 18:33	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 18:33	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 18:33	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 18:33	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 18:33	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 18:33	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 18:33	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 18:33	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 18:33	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 18:33	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 18:33	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 18:33	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 18:33	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 18:33	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 18:33	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 18:33	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 18:33	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 18:33	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 18:33	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 18:33	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 18:33	1
cis-1,2-Dichloroethene	**1.1**	**J**	3.0	0.69	ug/L			03/14/20 18:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 18:33	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 18:33	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 18:33	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 18:33	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 18:33	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 18:33	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 18:33	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 18:33	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 18:33	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 18:33	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 18:33	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 18:33	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 18:33	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 18:33	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW102-030420
Lab Sample ID: 580-93265-24
Date Collected: 03/04/20 16:45
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 18:33	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 18:33	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 18:33	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 18:33	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 18:33	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 18:33	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 18:33	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 18:33	1
Trichloroethene	**26**		3.0	0.85	ug/L			03/14/20 18:33	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 18:33	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 126*		*03/14/20 18:33*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/14/20 18:33*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*03/14/20 18:33*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/14/20 18:33*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/14/20 18:33*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW101-030420
Date Collected: 03/04/20 17:15
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-25
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 19:01	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 19:01	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 19:01	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 19:01	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 19:01	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 19:01	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 19:01	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 19:01	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 19:01	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 19:01	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 19:01	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 19:01	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 19:01	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 19:01	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 19:01	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 19:01	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 19:01	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 19:01	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 19:01	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 19:01	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 19:01	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 19:01	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 19:01	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 19:01	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 19:01	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 19:01	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 19:01	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 19:01	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 19:01	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 19:01	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 19:01	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 19:01	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 19:01	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 19:01	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 19:01	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 19:01	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 19:01	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 19:01	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 19:01	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 19:01	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 19:01	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 19:01	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 19:01	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 19:01	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 19:01	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 19:01	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 19:01	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 19:01	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 19:01	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW101-030420
Date Collected: 03/04/20 17:15
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-25
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 19:01	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 19:01	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 19:01	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 19:01	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 19:01	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 19:01	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 19:01	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 19:01	1
Trichloroethene	**1.2**	**J**	3.0	0.85	ug/L			03/14/20 19:01	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 19:01	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/14/20 19:01*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/14/20 19:01*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/14/20 19:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/20 19:01*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/14/20 19:01*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW100-030420
Date Collected: 03/04/20 17:45
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-26
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 19:28	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 19:28	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 19:28	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 19:28	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 19:28	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 19:28	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 19:28	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 19:28	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 19:28	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 19:28	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 19:28	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 19:28	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 19:28	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 19:28	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 19:28	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 19:28	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 19:28	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 19:28	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 19:28	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 19:28	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 19:28	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 19:28	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 19:28	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 19:28	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 19:28	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 19:28	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 19:28	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 19:28	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 19:28	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 19:28	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 19:28	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 19:28	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 19:28	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 19:28	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 19:28	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 19:28	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 19:28	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 19:28	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 19:28	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 19:28	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 19:28	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 19:28	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 19:28	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 19:28	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 19:28	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 19:28	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 19:28	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 19:28	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 19:28	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW100-030420
Date Collected: 03/04/20 17:45
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-26
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 19:28	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 19:28	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 19:28	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 19:28	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 19:28	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 19:28	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 19:28	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 19:28	1
Trichloroethene	**1.1**	**J**	3.0	0.85	ug/L			03/14/20 19:28	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 19:28	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/14/20 19:28*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/14/20 19:28*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/14/20 19:28*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/14/20 19:28*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*03/14/20 19:28*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW11-030520
Date Collected: 03/05/20 08:20
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-27
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 19:55	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 19:55	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 19:55	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 19:55	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 19:55	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 19:55	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 19:55	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 19:55	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 19:55	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 19:55	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 19:55	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 19:55	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 19:55	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 19:55	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 19:55	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 19:55	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 19:55	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 19:55	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 19:55	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 19:55	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 19:55	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 19:55	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 19:55	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 19:55	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 19:55	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 19:55	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 19:55	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 19:55	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 19:55	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 19:55	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 19:55	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 19:55	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 19:55	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 19:55	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 19:55	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 19:55	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 19:55	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 19:55	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 19:55	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 19:55	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 19:55	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 19:55	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 19:55	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 19:55	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 19:55	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 19:55	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 19:55	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 19:55	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 19:55	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW11-030520
Lab Sample ID: 580-93265-27
Date Collected: 03/05/20 08:20
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 19:55	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 19:55	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 19:55	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 19:55	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 19:55	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 19:55	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 19:55	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 19:55	1
Trichloroethene	ND		3.0	0.85	ug/L			03/14/20 19:55	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 19:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/14/20 19:55*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/14/20 19:55*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*03/14/20 19:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/20 19:55*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/14/20 19:55*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW11-030520-Duplicate
Date Collected: 03/05/20 08:20
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 21:17	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 21:17	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 21:17	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 21:17	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 21:17	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 21:17	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 21:17	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 21:17	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 21:17	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 21:17	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 21:17	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 21:17	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 21:17	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 21:17	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 21:17	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 21:17	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 21:17	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 21:17	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 21:17	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 21:17	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 21:17	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 21:17	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 21:17	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 21:17	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 21:17	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 21:17	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 21:17	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 21:17	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 21:17	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 21:17	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 21:17	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 21:17	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 21:17	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 21:17	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 21:17	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 21:17	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 21:17	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 21:17	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 21:17	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 21:17	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 21:17	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 21:17	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 21:17	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 21:17	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 21:17	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 21:17	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 21:17	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 21:17	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 21:17	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW11-030520-Duplicate
Lab Sample ID: 580-93265-28
Date Collected: 03/05/20 08:20
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 21:17	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 21:17	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 21:17	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 21:17	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 21:17	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 21:17	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 21:17	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 21:17	1
Trichloroethene	ND		3.0	0.85	ug/L			03/14/20 21:17	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 21:17	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/14/20 21:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/14/20 21:17*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/14/20 21:17*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/14/20 21:17*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/14/20 21:17*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW24-030520
Date Collected: 03/05/20 09:05
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 21:45	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 21:45	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 21:45	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 21:45	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 21:45	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 21:45	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 21:45	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 21:45	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 21:45	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 21:45	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 21:45	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 21:45	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 21:45	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 21:45	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 21:45	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 21:45	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 21:45	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 21:45	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 21:45	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 21:45	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 21:45	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 21:45	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 21:45	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 21:45	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 21:45	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 21:45	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 21:45	1
Carbon tetrachloride	**130**		3.0	0.30	ug/L			03/14/20 21:45	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 21:45	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 21:45	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 21:45	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 21:45	1
Chloroform	**15**		5.0	0.50	ug/L			03/14/20 21:45	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 21:45	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 21:45	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 21:45	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 21:45	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 21:45	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 21:45	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 21:45	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 21:45	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 21:45	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 21:45	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 21:45	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 21:45	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 21:45	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 21:45	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 21:45	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 21:45	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW24-030520
Lab Sample ID: 580-93265-29
Date Collected: 03/05/20 09:05
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 21:45	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 21:45	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 21:45	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 21:45	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 21:45	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 21:45	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 21:45	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 21:45	1
Trichloroethene	**62**		3.0	0.85	ug/L			03/14/20 21:45	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 21:45	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 126*		*03/14/20 21:45*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/14/20 21:45*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/14/20 21:45*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/14/20 21:45*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/14/20 21:45*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW27-030520
Date Collected: 03/05/20 09:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 22:12	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 22:12	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 22:12	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 22:12	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 22:12	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 22:12	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 22:12	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 22:12	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 22:12	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 22:12	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 22:12	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 22:12	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 22:12	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 22:12	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 22:12	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 22:12	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 22:12	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 22:12	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 22:12	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 22:12	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 22:12	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 22:12	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 22:12	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 22:12	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 22:12	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 22:12	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 22:12	1
Carbon tetrachloride	**70**		3.0	0.30	ug/L			03/14/20 22:12	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 22:12	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 22:12	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 22:12	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 22:12	1
Chloroform	**16**		5.0	0.50	ug/L			03/14/20 22:12	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 22:12	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 22:12	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 22:12	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 22:12	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 22:12	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 22:12	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 22:12	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 22:12	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 22:12	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 22:12	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 22:12	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 22:12	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 22:12	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 22:12	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 22:12	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 22:12	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW27-030520
Lab Sample ID: 580-93265-30
Date Collected: 03/05/20 09:35
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 22:12	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 22:12	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 22:12	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 22:12	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 22:12	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 22:12	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 22:12	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 22:12	1
Trichloroethene	ND		3.0	0.85	ug/L			03/14/20 22:12	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 22:12	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 126*		*03/14/20 22:12*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/14/20 22:12*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/14/20 22:12*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/14/20 22:12*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/14/20 22:12*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW15-030520
Date Collected: 03/05/20 10:05
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-31
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 22:39	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 22:39	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 22:39	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 22:39	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 22:39	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 22:39	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 22:39	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 22:39	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 22:39	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 22:39	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 22:39	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 22:39	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 22:39	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 22:39	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 22:39	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 22:39	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 22:39	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 22:39	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 22:39	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 22:39	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 22:39	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 22:39	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 22:39	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 22:39	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 22:39	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 22:39	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 22:39	1
Carbon tetrachloride	**7.2**		3.0	0.30	ug/L			03/14/20 22:39	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 22:39	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 22:39	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 22:39	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 22:39	1
Chloroform	**3.9**	**J**	5.0	0.50	ug/L			03/14/20 22:39	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 22:39	1
cis-1,2-Dichloroethene	**1.6**	**J**	3.0	0.69	ug/L			03/14/20 22:39	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 22:39	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 22:39	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 22:39	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 22:39	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 22:39	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 22:39	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 22:39	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 22:39	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 22:39	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 22:39	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 22:39	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 22:39	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 22:39	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 22:39	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW15-030520
Date Collected: 03/05/20 10:05
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-31
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 22:39	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 22:39	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 22:39	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 22:39	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 22:39	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 22:39	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 22:39	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 22:39	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 22:39	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 126*		*03/14/20 22:39*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/14/20 22:39*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*03/14/20 22:39*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/14/20 22:39*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/14/20 22:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1200**		300	85	ug/L			03/17/20 14:47	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 126*		*03/17/20 14:47*	*100*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/17/20 14:47*	*100*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/17/20 14:47*	*100*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/17/20 14:47*	*100*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/17/20 14:47*	*100*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW16-030520
Date Collected: 03/05/20 13:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-32
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 23:07	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 23:07	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 23:07	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 23:07	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 23:07	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 23:07	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 23:07	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 23:07	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 23:07	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 23:07	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 23:07	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 23:07	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 23:07	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 23:07	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 23:07	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 23:07	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 23:07	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 23:07	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 23:07	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 23:07	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 23:07	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 23:07	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 23:07	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 23:07	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 23:07	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 23:07	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 23:07	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 23:07	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 23:07	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 23:07	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 23:07	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 23:07	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 23:07	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 23:07	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 23:07	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 23:07	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 23:07	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 23:07	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 23:07	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 23:07	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 23:07	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 23:07	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 23:07	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 23:07	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 23:07	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 23:07	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 23:07	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 23:07	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 23:07	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW16-030520
Date Collected: 03/05/20 13:00
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-32
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 23:07	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 23:07	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 23:07	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 23:07	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 23:07	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 23:07	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 23:07	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 23:07	1
Trichloroethene	ND		3.0	0.85	ug/L			03/14/20 23:07	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 23:07	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/14/20 23:07*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*03/14/20 23:07*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*03/14/20 23:07*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/20 23:07*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*03/14/20 23:07*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: MW7-030520
Date Collected: 03/05/20 13:35
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-33
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 23:34	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 23:34	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 23:34	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 23:34	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 23:34	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 23:34	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 23:34	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 23:34	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 23:34	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 23:34	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 23:34	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 23:34	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 23:34	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 23:34	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 23:34	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 23:34	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 23:34	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 23:34	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 23:34	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 23:34	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 23:34	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 23:34	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 23:34	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 23:34	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 23:34	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 23:34	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 23:34	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 23:34	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 23:34	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 23:34	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 23:34	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 23:34	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 23:34	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 23:34	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 23:34	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 23:34	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 23:34	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 23:34	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 23:34	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 23:34	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 23:34	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 23:34	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 23:34	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 23:34	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 23:34	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 23:34	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 23:34	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 23:34	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 23:34	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW7-030520
Lab Sample ID: 580-93265-33
Date Collected: 03/05/20 13:35
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 23:34	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 23:34	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 23:34	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 23:34	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 23:34	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 23:34	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 23:34	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 23:34	1
Trichloroethene	ND		3.0	0.85	ug/L			03/14/20 23:34	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 23:34	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 126*		*03/14/20 23:34*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*03/14/20 23:34*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/14/20 23:34*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/20 23:34*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/14/20 23:34*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Client Sample ID: Trip Blank
Date Collected: 03/02/20 00:01
Date Received: 03/06/20 11:40

Lab Sample ID: 580-93265-34
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 15:31	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 15:31	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 15:31	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 15:31	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 15:31	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 15:31	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 15:31	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 15:31	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 15:31	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 15:31	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 15:31	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 15:31	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 15:31	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 15:31	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 15:31	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 15:31	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 15:31	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 15:31	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 15:31	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 15:31	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 15:31	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 15:31	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 15:31	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 15:31	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 15:31	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 15:31	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 15:31	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 15:31	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 15:31	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 15:31	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 15:31	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 15:31	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 15:31	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 15:31	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 15:31	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 15:31	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 15:31	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 15:31	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 15:31	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 15:31	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 15:31	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 15:31	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 15:31	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 15:31	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 15:31	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 15:31	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 15:31	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 15:31	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 15:31	1

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: Trip Blank
Lab Sample ID: 580-93265-34
Date Collected: 03/02/20 00:01
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 15:31	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 15:31	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 15:31	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 15:31	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 15:31	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 15:31	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 15:31	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 15:31	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 15:31	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 15:31	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 126*		*03/09/20 15:31*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/09/20 15:31*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/09/20 15:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/09/20 15:31*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 120*		*03/09/20 15:31*	*1*

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

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

Lab Sample ID: MB 580-324577/7
Matrix: Water
Analysis Batch: 324577

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/09/20 15:04	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/09/20 15:04	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/09/20 15:04	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/09/20 15:04	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/09/20 15:04	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/09/20 15:04	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/09/20 15:04	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/09/20 15:04	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/09/20 15:04	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/09/20 15:04	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/09/20 15:04	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/09/20 15:04	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/09/20 15:04	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/09/20 15:04	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/09/20 15:04	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/09/20 15:04	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/09/20 15:04	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/09/20 15:04	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/09/20 15:04	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/09/20 15:04	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/09/20 15:04	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/09/20 15:04	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/09/20 15:04	1
Benzene	ND		3.0	0.53	ug/L			03/09/20 15:04	1
Bromobenzene	ND		2.0	0.43	ug/L			03/09/20 15:04	1
Bromoform	ND		3.0	0.56	ug/L			03/09/20 15:04	1
Bromomethane	ND		6.0	1.1	ug/L			03/09/20 15:04	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/09/20 15:04	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/09/20 15:04	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/09/20 15:04	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/09/20 15:04	1
Chloroethane	ND		5.0	1.1	ug/L			03/09/20 15:04	1
Chloroform	ND		5.0	0.50	ug/L			03/09/20 15:04	1
Chloromethane	ND		20	5.4	ug/L			03/09/20 15:04	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/09/20 15:04	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/09/20 15:04	1
Dibromomethane	ND		2.0	0.34	ug/L			03/09/20 15:04	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/09/20 15:04	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/09/20 15:04	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/09/20 15:04	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/09/20 15:04	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/09/20 15:04	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/09/20 15:04	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/09/20 15:04	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/09/20 15:04	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/09/20 15:04	1
Naphthalene	ND		4.0	0.93	ug/L			03/09/20 15:04	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/09/20 15:04	1

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

Lab Sample ID: MB 580-324577/7
Matrix: Water
Analysis Batch: 324577

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.0	0.50	ug/L			03/09/20 15:04	1
o-Xylene	ND		2.0	0.39	ug/L			03/09/20 15:04	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/09/20 15:04	1
Styrene	ND		5.0	1.0	ug/L			03/09/20 15:04	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/09/20 15:04	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/09/20 15:04	1
Toluene	ND		2.0	0.39	ug/L			03/09/20 15:04	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/09/20 15:04	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/09/20 15:04	1
Trichloroethene	ND		3.0	0.85	ug/L			03/09/20 15:04	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/09/20 15:04	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/09/20 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 126*		*03/09/20 15:04*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/09/20 15:04*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/09/20 15:04*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/09/20 15:04*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/09/20 15:04*	*1*

Lab Sample ID: LCS 580-324577/4
Matrix: Water
Analysis Batch: 324577

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.95		ug/L		99	79 - 120
1,1,1-Trichloroethane	10.0	9.88		ug/L		99	74 - 130
1,1,2,2-Tetrachloroethane	10.0	9.94		ug/L		99	74 - 124
1,1,2-Trichloroethane	10.0	9.56		ug/L		96	80 - 121
1,1-Dichloroethane	10.0	9.69		ug/L		97	70 - 129
1,1-Dichloroethene	10.0	9.73		ug/L		97	70 - 129
1,1-Dichloropropene	10.0	9.98		ug/L		100	80 - 120
1,2,3-Trichlorobenzene	10.0	10.4		ug/L		104	23 - 150
1,2,3-Trichloropropane	10.0	9.86		ug/L		99	76 - 124
1,2,4-Trichlorobenzene	10.0	10.1		ug/L		101	57 - 140
1,2,4-Trimethylbenzene	10.0	10.4		ug/L		104	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.61	J	ug/L		96	65 - 125
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,2-Dichloroethane	10.0	9.12		ug/L		91	76 - 131
1,2-Dichloropropane	10.0	9.78		ug/L		98	72 - 126
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	80 - 120
1,3-Dichlorobenzene	10.0	9.87		ug/L		99	80 - 120
1,3-Dichloropropane	10.0	10.0		ug/L		100	79 - 120
1,4-Dichlorobenzene	10.0	9.70		ug/L		97	80 - 120
2,2-Dichloropropane	10.0	9.12		ug/L		91	62 - 140
2-Chlorotoluene	10.0	9.99		ug/L		100	80 - 120
4-Chlorotoluene	10.0	10.0		ug/L		100	80 - 120
4-Isopropyltoluene	10.0	10.5		ug/L		105	77 - 120

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

Lab Sample ID: LCS 580-324577/4
Matrix: Water
Analysis Batch: 324577

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.70		ug/L		97	75 - 121
Bromobenzene	10.0	9.89		ug/L		99	80 - 120
Bromoform	10.0	9.24		ug/L		92	61 - 132
Bromomethane	10.0	9.21		ug/L		92	66 - 125
Carbon tetrachloride	10.0	9.83		ug/L		98	72 - 129
Chlorobenzene	10.0	9.94		ug/L		99	80 - 120
Chlorobromomethane	10.0	9.58		ug/L		96	78 - 120
Chlorodibromomethane	10.0	9.75		ug/L		98	71 - 120
Chloroethane	10.0	9.78		ug/L		98	65 - 132
Chloroform	10.0	9.71		ug/L		97	73 - 127
Chloromethane	10.0	9.44	J	ug/L		94	52 - 135
cis-1,2-Dichloroethene	10.0	9.59		ug/L		96	76 - 129
cis-1,3-Dichloropropene	10.0	9.48		ug/L		95	77 - 120
Dibromomethane	10.0	9.43		ug/L		94	80 - 120
Dichlorobromomethane	10.0	9.64		ug/L		96	75 - 124
Dichlorodifluoromethane	10.0	9.32	J	ug/L		93	20 - 150
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
Ethylene Dibromide	10.0	9.30		ug/L		93	79 - 120
Hexachlorobutadiene	10.0	10.3		ug/L		103	74 - 125
Isopropylbenzene	10.0	9.98		ug/L		100	75 - 120
Methyl tert-butyl ether	10.0	9.18		ug/L		92	72 - 130
Methylene Chloride	10.0	9.03		ug/L		90	77 - 125
m-Xylene & p-Xylene	10.0	9.91		ug/L		99	80 - 120
Naphthalene	10.0	10.0		ug/L		100	44 - 144
n-Butylbenzene	10.0	10.4		ug/L		104	78 - 120
N-Propylbenzene	10.0	10.4		ug/L		104	80 - 120
o-Xylene	10.0	9.83		ug/L		98	80 - 120
sec-Butylbenzene	10.0	10.5		ug/L		105	78 - 120
Styrene	10.0	9.72		ug/L		97	76 - 121
tert-Butylbenzene	10.0	10.3		ug/L		103	80 - 121
Tetrachloroethene	10.0	10.2		ug/L		102	76 - 120
Toluene	10.0	9.78		ug/L		98	80 - 120
trans-1,2-Dichloroethene	10.0	9.62		ug/L		96	77 - 124
trans-1,3-Dichloropropene	10.0	9.28		ug/L		93	80 - 122
Trichloroethene	10.0	9.87		ug/L		99	70 - 120
Trichlorofluoromethane	10.0	9.82		ug/L		98	64 - 136
Vinyl chloride	10.0	9.68		ug/L		97	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*80 - 120*

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

Lab Sample ID: LCSD 580-324577/5
Matrix: Water
Analysis Batch: 324577

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	9.84		ug/L		98	79 - 120	1	20
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	74 - 130	3	18
1,1,2,2-Tetrachloroethane	10.0	9.57		ug/L		96	74 - 124	4	18
1,1,2-Trichloroethane	10.0	9.32		ug/L		93	80 - 121	3	21
1,1-Dichloroethane	10.0	9.78		ug/L		98	70 - 129	1	26
1,1-Dichloroethene	10.0	9.95		ug/L		100	70 - 129	2	27
1,1-Dichloropropene	10.0	9.88		ug/L		99	80 - 120	1	14
1,2,3-Trichlorobenzene	10.0	10.3		ug/L		103	23 - 150	1	35
1,2,3-Trichloropropane	10.0	9.80		ug/L		98	76 - 124	1	30
1,2,4-Trichlorobenzene	10.0	9.87		ug/L		99	57 - 140	2	27
1,2,4-Trimethylbenzene	10.0	9.90		ug/L		99	80 - 120	5	16
1,2-Dibromo-3-Chloropropane	10.0	10.6		ug/L		106	65 - 125	10	27
1,2-Dichlorobenzene	10.0	9.86		ug/L		99	80 - 120	2	15
1,2-Dichloroethane	10.0	9.21		ug/L		92	76 - 131	1	18
1,2-Dichloropropane	10.0	9.65		ug/L		96	72 - 126	1	26
1,3,5-Trimethylbenzene	10.0	9.90		ug/L		99	80 - 120	5	14
1,3-Dichlorobenzene	10.0	9.42		ug/L		94	80 - 120	5	14
1,3-Dichloropropane	10.0	9.93		ug/L		99	79 - 120	1	26
1,4-Dichlorobenzene	10.0	9.70		ug/L		97	80 - 120	0	17
2,2-Dichloropropane	10.0	9.92		ug/L		99	62 - 140	8	23
2-Chlorotoluene	10.0	9.73		ug/L		97	80 - 120	3	15
4-Chlorotoluene	10.0	9.74		ug/L		97	80 - 120	3	14
4-Isopropyltoluene	10.0	9.97		ug/L		100	77 - 120	5	13
Benzene	10.0	9.85		ug/L		99	75 - 121	2	14
Bromobenzene	10.0	9.54		ug/L		95	80 - 120	4	13
Bromoform	10.0	9.57		ug/L		96	61 - 132	4	20
Bromomethane	10.0	9.42		ug/L		94	66 - 125	2	27
Carbon tetrachloride	10.0	10.1		ug/L		101	72 - 129	3	19
Chlorobenzene	10.0	9.77		ug/L		98	80 - 120	2	15
Chlorobromomethane	10.0	9.82		ug/L		98	78 - 120	2	20
Chlorodibromomethane	10.0	9.71		ug/L		97	71 - 120	0	24
Chloroethane	10.0	9.37		ug/L		94	65 - 132	4	35
Chloroform	10.0	9.66		ug/L		97	73 - 127	1	22
Chloromethane	10.0	8.96	J	ug/L		90	52 - 135	5	23
cis-1,2-Dichloroethene	10.0	9.56		ug/L		96	76 - 129	0	15
cis-1,3-Dichloropropene	10.0	9.60		ug/L		96	77 - 120	1	20
Dibromomethane	10.0	9.74		ug/L		97	80 - 120	3	22
Dichlorobromomethane	10.0	9.69		ug/L		97	75 - 124	1	22
Dichlorodifluoromethane	10.0	9.39	J	ug/L		94	20 - 150	1	35
Ethylbenzene	10.0	9.73		ug/L		97	80 - 120	3	14
Ethylene Dibromide	10.0	9.53		ug/L		95	79 - 120	2	20
Hexachlorobutadiene	10.0	10.1		ug/L		101	74 - 125	2	22
Isopropylbenzene	10.0	9.79		ug/L		98	75 - 120	2	20
Methyl tert-butyl ether	10.0	9.62		ug/L		96	72 - 130	5	18
Methylene Chloride	10.0	9.42		ug/L		94	77 - 125	4	18
m-Xylene & p-Xylene	10.0	9.70		ug/L		97	80 - 120	2	14
Naphthalene	10.0	9.83		ug/L		98	44 - 144	2	31
n-Butylbenzene	10.0	10.0		ug/L		100	78 - 120	4	14

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

Lab Sample ID: LCSD 580-324577/5
Matrix: Water
Analysis Batch: 324577

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene			10.0	9.81		ug/L		98	80 - 120	6	13
o-Xylene			10.0	9.60		ug/L		96	80 - 120	2	16
sec-Butylbenzene			10.0	10.1		ug/L		101	78 - 120	4	15
Styrene			10.0	9.59		ug/L		96	76 - 121	1	16
tert-Butylbenzene			10.0	9.79		ug/L		98	80 - 121	6	14
Tetrachloroethene			10.0	10.4		ug/L		104	76 - 120	2	20
Toluene			10.0	9.56		ug/L		96	80 - 120	2	19
trans-1,2-Dichloroethene			10.0	9.82		ug/L		98	77 - 124	2	21
trans-1,3-Dichloropropene			10.0	9.21		ug/L		92	80 - 122	1	25
Trichloroethene			10.0	9.67		ug/L		97	70 - 120	2	21
Trichlorofluoromethane			10.0	9.83		ug/L		98	64 - 136	0	27
Vinyl chloride			10.0	9.51		ug/L		95	65 - 130	2	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 580-324644/7
Matrix: Water
Analysis Batch: 324644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/11/20 13:46	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/11/20 13:46	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/11/20 13:46	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/11/20 13:46	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/11/20 13:46	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/11/20 13:46	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/11/20 13:46	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/11/20 13:46	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/11/20 13:46	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/11/20 13:46	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/11/20 13:46	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/11/20 13:46	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/11/20 13:46	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/11/20 13:46	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/11/20 13:46	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/11/20 13:46	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/11/20 13:46	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/11/20 13:46	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/11/20 13:46	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/11/20 13:46	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/11/20 13:46	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/11/20 13:46	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/11/20 13:46	1

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

Lab Sample ID: MB 580-324644/7
Matrix: Water
Analysis Batch: 324644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			03/11/20 13:46	1
Bromobenzene	ND		2.0	0.43	ug/L			03/11/20 13:46	1
Bromomethane	ND		6.0	1.1	ug/L			03/11/20 13:46	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/11/20 13:46	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/11/20 13:46	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/11/20 13:46	1
Chloroethane	ND		5.0	1.1	ug/L			03/11/20 13:46	1
Chloroform	ND		5.0	0.50	ug/L			03/11/20 13:46	1
Chloromethane	ND		20	5.4	ug/L			03/11/20 13:46	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/11/20 13:46	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/11/20 13:46	1
Dibromomethane	ND		2.0	0.34	ug/L			03/11/20 13:46	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/11/20 13:46	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/11/20 13:46	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/11/20 13:46	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/11/20 13:46	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/11/20 13:46	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/11/20 13:46	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/11/20 13:46	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/11/20 13:46	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/11/20 13:46	1
Naphthalene	ND		4.0	0.93	ug/L			03/11/20 13:46	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/11/20 13:46	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/11/20 13:46	1
o-Xylene	ND		2.0	0.39	ug/L			03/11/20 13:46	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/11/20 13:46	1
Styrene	ND		5.0	1.0	ug/L			03/11/20 13:46	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/11/20 13:46	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/11/20 13:46	1
Toluene	ND		2.0	0.39	ug/L			03/11/20 13:46	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/11/20 13:46	1
Trichloroethene	ND		3.0	0.85	ug/L			03/11/20 13:46	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/11/20 13:46	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/11/20 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 126*		*03/11/20 13:46*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/11/20 13:46*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/11/20 13:46*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/11/20 13:46*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/11/20 13:46*	*1*

Lab Sample ID: LCS 580-324644/4
Matrix: Water
Analysis Batch: 324644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.93		ug/L		99	79 - 120

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

Lab Sample ID: LCS 580-324644/4
Matrix: Water
Analysis Batch: 324644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	74 - 130
1,1,2,2-Tetrachloroethane	10.0	11.0		ug/L		110	74 - 124
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	80 - 121
1,1-Dichloroethane	10.0	10.1		ug/L		101	70 - 129
1,1-Dichloroethene	10.0	10.0		ug/L		100	70 - 129
1,1-Dichloropropene	10.0	10.3		ug/L		103	80 - 120
1,2,3-Trichlorobenzene	10.0	10.8		ug/L		108	23 - 150
1,2,3-Trichloropropane	10.0	10.8		ug/L		108	76 - 124
1,2,4-Trichlorobenzene	10.0	10.6		ug/L		106	57 - 140
1,2,4-Trimethylbenzene	10.0	10.8		ug/L		108	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.29	J	ug/L		83	65 - 125
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,2-Dichloroethane	10.0	10.2		ug/L		102	76 - 131
1,2-Dichloropropane	10.0	10.0		ug/L		100	72 - 126
1,3,5-Trimethylbenzene	10.0	10.8		ug/L		108	80 - 120
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichloropropane	10.0	10.6		ug/L		106	79 - 120
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
2,2-Dichloropropane	10.0	10.2		ug/L		102	62 - 140
2-Chlorotoluene	10.0	10.5		ug/L		105	80 - 120
4-Chlorotoluene	10.0	10.8		ug/L		108	80 - 120
4-Isopropyltoluene	10.0	10.6		ug/L		106	77 - 120
Benzene	10.0	10.1		ug/L		101	75 - 121
Bromobenzene	10.0	10.6		ug/L		106	80 - 120
Bromomethane	10.0	8.66		ug/L		87	66 - 125
Carbon tetrachloride	10.0	9.56		ug/L		96	72 - 129
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120
Chlorobromomethane	10.0	10.2		ug/L		102	78 - 120
Chloroethane	10.0	8.81		ug/L		88	65 - 132
Chloroform	10.0	10.2		ug/L		102	73 - 127
Chloromethane	10.0	8.78	J	ug/L		88	52 - 135
cis-1,2-Dichloroethene	10.0	9.99		ug/L		100	76 - 129
cis-1,3-Dichloropropene	10.0	8.43		ug/L		84	77 - 120
Dibromomethane	10.0	10.1		ug/L		101	80 - 120
Dichlorobromomethane	10.0	8.74		ug/L		87	75 - 124
Dichlorodifluoromethane	10.0	8.04	J	ug/L		80	20 - 150
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120
Ethylene Dibromide	10.0	10.4		ug/L		104	79 - 120
Hexachlorobutadiene	10.0	10.1		ug/L		101	74 - 125
Isopropylbenzene	10.0	10.4		ug/L		104	75 - 120
Methyl tert-butyl ether	10.0	10.2		ug/L		102	72 - 130
Methylene Chloride	10.0	9.48		ug/L		95	77 - 125
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120
Naphthalene	10.0	10.6		ug/L		106	44 - 144
n-Butylbenzene	10.0	10.5		ug/L		105	78 - 120
N-Propylbenzene	10.0	10.7		ug/L		107	80 - 120
o-Xylene	10.0	10.4		ug/L		104	80 - 120
sec-Butylbenzene	10.0	10.7		ug/L		107	78 - 120
Styrene	10.0	10.7		ug/L		107	76 - 121

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

Lab Sample ID: LCS 580-324644/4
Matrix: Water
Analysis Batch: 324644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	10.0	10.5		ug/L		105	80 - 121
Tetrachloroethene	10.0	9.94		ug/L		99	76 - 120
Toluene	10.0	9.94		ug/L		99	80 - 120
trans-1,2-Dichloroethene	10.0	9.69		ug/L		97	77 - 124
Trichloroethene	10.0	10.1		ug/L		101	70 - 120
Trichlorofluoromethane	10.0	9.22		ug/L		92	64 - 136
Vinyl chloride	10.0	8.82		ug/L		88	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-324644/5
Matrix: Water
Analysis Batch: 324644

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	9.68		ug/L		97	79 - 120	3	20
1,1,1-Trichloroethane	10.0	9.98		ug/L		100	74 - 130	1	18
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	74 - 124	3	18
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 121	2	21
1,1-Dichloroethane	10.0	10.1		ug/L		101	70 - 129	0	26
1,1-Dichloroethene	10.0	10.0		ug/L		100	70 - 129	0	27
1,1-Dichloropropene	10.0	10.1		ug/L		101	80 - 120	2	14
1,2,3-Trichlorobenzene	10.0	10.4		ug/L		104	23 - 150	3	35
1,2,3-Trichloropropane	10.0	11.4		ug/L		114	76 - 124	5	30
1,2,4-Trichlorobenzene	10.0	10.3		ug/L		103	57 - 140	3	27
1,2,4-Trimethylbenzene	10.0	10.8		ug/L		108	80 - 120	0	16
1,2-Dibromo-3-Chloropropane	10.0	8.46	J	ug/L		85	65 - 125	2	27
1,2-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120	0	15
1,2-Dichloroethane	10.0	9.76		ug/L		98	76 - 131	4	18
1,2-Dichloropropane	10.0	10.2		ug/L		102	72 - 126	2	26
1,3,5-Trimethylbenzene	10.0	10.8		ug/L		108	80 - 120	0	14
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120	1	14
1,3-Dichloropropane	10.0	10.9		ug/L		109	79 - 120	3	26
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120	1	17
2,2-Dichloropropane	10.0	10.1		ug/L		101	62 - 140	1	23
2-Chlorotoluene	10.0	10.5		ug/L		105	80 - 120	0	15
4-Chlorotoluene	10.0	10.8		ug/L		108	80 - 120	0	14
4-Isopropyltoluene	10.0	10.5		ug/L		105	77 - 120	1	13
Benzene	10.0	9.93		ug/L		99	75 - 121	1	14
Bromobenzene	10.0	10.5		ug/L		105	80 - 120	0	13
Bromomethane	10.0	8.75		ug/L		88	66 - 125	1	27
Carbon tetrachloride	10.0	9.42		ug/L		94	72 - 129	1	19
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120	2	15

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

Lab Sample ID: LCSD 580-324644/5
Matrix: Water
Analysis Batch: 324644

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
Chlorobromomethane	10.0	10.0		ug/L		100	78 - 120	2	20
Chloroethane	10.0	8.89		ug/L		89	65 - 132	1	35
Chloroform	10.0	10.1		ug/L		101	73 - 127	1	22
Chloromethane	10.0	8.54	J	ug/L		85	52 - 135	3	23
cis-1,2-Dichloroethene	10.0	9.88		ug/L		99	76 - 129	1	15
cis-1,3-Dichloropropene	10.0	8.45		ug/L		84	77 - 120	0	20
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	1	22
Dichlorobromomethane	10.0	8.78		ug/L		88	75 - 124	0	22
Dichlorodifluoromethane	10.0	7.83	J	ug/L		78	20 - 150	3	35
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120	2	14
Ethylene Dibromide	10.0	10.4		ug/L		104	79 - 120	1	20
Hexachlorobutadiene	10.0	9.81		ug/L		98	74 - 125	3	22
Isopropylbenzene	10.0	10.5		ug/L		105	75 - 120	1	20
Methyl tert-butyl ether	10.0	10.4		ug/L		104	72 - 130	2	18
Methylene Chloride	10.0	9.70		ug/L		97	77 - 125	2	18
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120	2	14
Naphthalene	10.0	10.7		ug/L		107	44 - 144	0	31
n-Butylbenzene	10.0	10.5		ug/L		105	78 - 120	0	14
N-Propylbenzene	10.0	10.6		ug/L		106	80 - 120	1	13
o-Xylene	10.0	10.6		ug/L		106	80 - 120	2	16
sec-Butylbenzene	10.0	10.5		ug/L		105	78 - 120	2	15
Styrene	10.0	10.6		ug/L		106	76 - 121	0	16
tert-Butylbenzene	10.0	10.5		ug/L		105	80 - 121	0	14
Tetrachloroethene	10.0	10.2		ug/L		102	76 - 120	3	20
Toluene	10.0	10.1		ug/L		101	80 - 120	1	19
trans-1,2-Dichloroethene	10.0	9.74		ug/L		97	77 - 124	1	21
Trichloroethene	10.0	10.1		ug/L		101	70 - 120	1	21
Trichlorofluoromethane	10.0	9.23		ug/L		92	64 - 136	0	27
Vinyl chloride	10.0	8.70		ug/L		87	65 - 130	1	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 126*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 580-324681/7
Matrix: Water
Analysis Batch: 324681

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/12/20 02:25	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/12/20 02:25	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/12/20 02:25	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/12/20 02:25	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/12/20 02:25	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/12/20 02:25	1

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

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

Lab Sample ID: MB 580-324681/7
Matrix: Water
Analysis Batch: 324681

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/12/20 02:25	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/12/20 02:25	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/12/20 02:25	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/12/20 02:25	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/12/20 02:25	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/12/20 02:25	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/12/20 02:25	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/12/20 02:25	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/12/20 02:25	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/12/20 02:25	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/12/20 02:25	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/12/20 02:25	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/12/20 02:25	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/12/20 02:25	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/12/20 02:25	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/12/20 02:25	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/12/20 02:25	1
Benzene	ND		3.0	0.53	ug/L			03/12/20 02:25	1
Bromobenzene	ND		2.0	0.43	ug/L			03/12/20 02:25	1
Bromoform	ND		3.0	0.56	ug/L			03/12/20 02:25	1
Bromomethane	ND		6.0	1.1	ug/L			03/12/20 02:25	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/12/20 02:25	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/12/20 02:25	1
Chlorobromomethane	ND		2.0	0.29	ug/L			03/12/20 02:25	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/12/20 02:25	1
Chloroethane	ND		5.0	1.1	ug/L			03/12/20 02:25	1
Chloroform	ND		5.0	0.50	ug/L			03/12/20 02:25	1
Chloromethane	ND		20	5.4	ug/L			03/12/20 02:25	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/12/20 02:25	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/12/20 02:25	1
Dibromomethane	ND		2.0	0.34	ug/L			03/12/20 02:25	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/12/20 02:25	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/12/20 02:25	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/12/20 02:25	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/12/20 02:25	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/12/20 02:25	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/12/20 02:25	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/12/20 02:25	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/12/20 02:25	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/12/20 02:25	1
Naphthalene	ND		4.0	0.93	ug/L			03/12/20 02:25	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/12/20 02:25	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/12/20 02:25	1
o-Xylene	ND		2.0	0.39	ug/L			03/12/20 02:25	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/12/20 02:25	1
Styrene	ND		5.0	1.0	ug/L			03/12/20 02:25	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/12/20 02:25	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/12/20 02:25	1
Toluene	ND		2.0	0.39	ug/L			03/12/20 02:25	1

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

Lab Sample ID: MB 580-324681/7
Matrix: Water
Analysis Batch: 324681

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/12/20 02:25	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/12/20 02:25	1
Trichloroethene	ND		3.0	0.85	ug/L			03/12/20 02:25	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/12/20 02:25	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/12/20 02:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/12/20 02:25*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/12/20 02:25*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/12/20 02:25*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/12/20 02:25*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/12/20 02:25*	*1*

Lab Sample ID: LCS 580-324681/4
Matrix: Water
Analysis Batch: 324681

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	79 - 120
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	74 - 130
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	74 - 124
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121
1,1-Dichloroethane	10.0	10.3		ug/L		103	70 - 129
1,1-Dichloroethene	10.0	9.73		ug/L		97	70 - 129
1,1-Dichloropropene	10.0	10.2		ug/L		102	80 - 120
1,2,3-Trichlorobenzene	10.0	10.4		ug/L		104	23 - 150
1,2,3-Trichloropropane	10.0	10.7		ug/L		107	76 - 124
1,2,4-Trichlorobenzene	10.0	10.4		ug/L		104	57 - 140
1,2,4-Trimethylbenzene	10.0	11.1		ug/L		111	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.00	J	ug/L		90	65 - 125
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 131
1,2-Dichloropropane	10.0	10.4		ug/L		104	72 - 126
1,3,5-Trimethylbenzene	10.0	11.0		ug/L		110	80 - 120
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichloropropane	10.0	10.7		ug/L		107	79 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
2,2-Dichloropropane	10.0	9.36		ug/L		94	62 - 140
2-Chlorotoluene	10.0	11.0		ug/L		110	80 - 120
4-Chlorotoluene	10.0	10.9		ug/L		109	80 - 120
4-Isopropyltoluene	10.0	10.7		ug/L		107	77 - 120
Benzene	10.0	10.3		ug/L		103	75 - 121
Bromobenzene	10.0	10.9		ug/L		109	80 - 120
Bromoform	10.0	6.47		ug/L		65	61 - 132
Bromomethane	10.0	8.82		ug/L		88	66 - 125
Carbon tetrachloride	10.0	9.79		ug/L		98	72 - 129
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
Chlorobromomethane	10.0	10.1		ug/L		101	78 - 120

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

Lab Sample ID: LCS 580-324681/4
Matrix: Water
Analysis Batch: 324681

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	10.0	8.71		ug/L		87	71 - 120
Chloroethane	10.0	8.91		ug/L		89	65 - 132
Chloroform	10.0	10.7		ug/L		107	73 - 127
Chloromethane	10.0	8.47	J	ug/L		85	52 - 135
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	76 - 129
cis-1,3-Dichloropropene	10.0	9.27		ug/L		93	77 - 120
Dibromomethane	10.0	10.2		ug/L		102	80 - 120
Dichlorobromomethane	10.0	9.73		ug/L		97	75 - 124
Dichlorodifluoromethane	10.0	7.95	J	ug/L		79	20 - 150
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
Ethylene Dibromide	10.0	10.5		ug/L		105	79 - 120
Hexachlorobutadiene	10.0	9.93		ug/L		99	74 - 125
Isopropylbenzene	10.0	10.7		ug/L		107	75 - 120
Methyl tert-butyl ether	10.0	10.2		ug/L		102	72 - 130
Methylene Chloride	10.0	9.77		ug/L		98	77 - 125
m-Xylene & p-Xylene	10.0	10.6		ug/L		106	80 - 120
Naphthalene	10.0	10.2		ug/L		102	44 - 144
n-Butylbenzene	10.0	10.5		ug/L		105	78 - 120
N-Propylbenzene	10.0	10.7		ug/L		107	80 - 120
o-Xylene	10.0	10.6		ug/L		106	80 - 120
sec-Butylbenzene	10.0	10.7		ug/L		107	78 - 120
Styrene	10.0	10.8		ug/L		108	76 - 121
tert-Butylbenzene	10.0	10.8		ug/L		108	80 - 121
Tetrachloroethene	10.0	10.1		ug/L		101	76 - 120
Toluene	10.0	10.2		ug/L		102	80 - 120
trans-1,2-Dichloroethene	10.0	9.66		ug/L		97	77 - 124
trans-1,3-Dichloropropene	10.0	8.87		ug/L		89	80 - 122
Trichloroethene	10.0	10.8		ug/L		108	70 - 120
Trichlorofluoromethane	10.0	9.10		ug/L		91	64 - 136
Vinyl chloride	10.0	8.66		ug/L		87	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 580-324681/5
Matrix: Water
Analysis Batch: 324681

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	79 - 120	2	20
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	74 - 130	2	18
1,1,2,2-Tetrachloroethane	10.0	9.74		ug/L		97	74 - 124	4	18
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 121	4	21
1,1-Dichloroethane	10.0	10.1		ug/L		101	70 - 129	2	26

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

Lab Sample ID: LCSD 580-324681/5
Matrix: Water
Analysis Batch: 324681

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	10.0	9.50		ug/L		95	70 - 129	2	27
1,1-Dichloropropene	10.0	10.0		ug/L		100	80 - 120	1	14
1,2,3-Trichlorobenzene	10.0	10.3		ug/L		103	23 - 150	1	35
1,2,3-Trichloropropane	10.0	10.4		ug/L		104	76 - 124	3	30
1,2,4-Trichlorobenzene	10.0	9.96		ug/L		100	57 - 140	5	27
1,2,4-Trimethylbenzene	10.0	10.7		ug/L		107	80 - 120	4	16
1,2-Dibromo-3-Chloropropane	10.0	9.32	J	ug/L		93	65 - 125	3	27
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120	5	15
1,2-Dichloroethane	10.0	9.88		ug/L		99	76 - 131	2	18
1,2-Dichloropropane	10.0	10.3		ug/L		103	72 - 126	1	26
1,3,5-Trimethylbenzene	10.0	10.5		ug/L		105	80 - 120	5	14
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120	5	14
1,3-Dichloropropane	10.0	10.4		ug/L		104	79 - 120	3	26
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120	5	17
2,2-Dichloropropane	10.0	8.99		ug/L		90	62 - 140	4	23
2-Chlorotoluene	10.0	10.2		ug/L		102	80 - 120	8	15
4-Chlorotoluene	10.0	10.6		ug/L		106	80 - 120	3	14
4-Isopropyltoluene	10.0	10.3		ug/L		103	77 - 120	4	13
Benzene	10.0	10.1		ug/L		101	75 - 121	2	14
Bromobenzene	10.0	10.2		ug/L		102	80 - 120	6	13
Bromoform	10.0	6.50		ug/L		65	61 - 132	0	20
Bromomethane	10.0	8.44		ug/L		84	66 - 125	4	27
Carbon tetrachloride	10.0	9.42		ug/L		94	72 - 129	4	19
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120	2	15
Chlorobromomethane	10.0	9.99		ug/L		100	78 - 120	1	20
Chlorodibromomethane	10.0	8.59		ug/L		86	71 - 120	1	24
Chloroethane	10.0	8.51		ug/L		85	65 - 132	5	35
Chloroform	10.0	10.3		ug/L		103	73 - 127	4	22
Chloromethane	10.0	8.14	J	ug/L		81	52 - 135	4	23
cis-1,2-Dichloroethene	10.0	9.90		ug/L		99	76 - 129	3	15
cis-1,3-Dichloropropene	10.0	9.30		ug/L		93	77 - 120	0	20
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	0	22
Dichlorobromomethane	10.0	9.46		ug/L		95	75 - 124	3	22
Dichlorodifluoromethane	10.0	7.73	J	ug/L		77	20 - 150	3	35
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120	1	14
Ethylene Dibromide	10.0	10.1		ug/L		101	79 - 120	4	20
Hexachlorobutadiene	10.0	9.67		ug/L		97	74 - 125	3	22
Isopropylbenzene	10.0	10.4		ug/L		104	75 - 120	3	20
Methyl tert-butyl ether	10.0	10.4		ug/L		104	72 - 130	2	18
Methylene Chloride	10.0	9.51		ug/L		95	77 - 125	3	18
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120	3	14
Naphthalene	10.0	10.1		ug/L		101	44 - 144	1	31
n-Butylbenzene	10.0	9.80		ug/L		98	78 - 120	7	14
N-Propylbenzene	10.0	10.1		ug/L		101	80 - 120	6	13
o-Xylene	10.0	10.5		ug/L		105	80 - 120	1	16
sec-Butylbenzene	10.0	10.2		ug/L		102	78 - 120	5	15
Styrene	10.0	10.6		ug/L		106	76 - 121	2	16
tert-Butylbenzene	10.0	10.3		ug/L		103	80 - 121	4	14
Tetrachloroethene	10.0	9.67		ug/L		97	76 - 120	5	20

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

Lab Sample ID: LCSD 580-324681/5
Matrix: Water
Analysis Batch: 324681

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
Toluene			10.0	9.95		ug/L		99	80 - 120	3	19
trans-1,2-Dichloroethene			10.0	9.52		ug/L		95	77 - 124	2	21
trans-1,3-Dichloropropene			10.0	8.56		ug/L		86	80 - 122	4	25
Trichloroethene			10.0	10.5		ug/L		105	70 - 120	3	21
Trichlorofluoromethane			10.0	8.89		ug/L		89	64 - 136	2	27
Vinyl chloride			10.0	8.54		ug/L		85	65 - 130	1	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 126*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*99*		*80 - 120*

Lab Sample ID: 580-93265-12 MS
Matrix: Water
Analysis Batch: 324681

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND	F1 F2	10.0	5.67	F1	ug/L		57	79 - 120
1,1,1-Trichloroethane	ND	F1 F2	10.0	6.58	F1	ug/L		66	74 - 130
1,1,2,2-Tetrachloroethane	ND	F1 F2	10.0	5.79	F1	ug/L		58	74 - 124
1,1,2-Trichloroethane	ND	F1	10.0	5.90	F1	ug/L		59	80 - 121
1,1-Dichloroethane	ND	F1	10.0	6.23	F1	ug/L		62	70 - 129
1,1-Dichloroethene	ND	F1	10.0	6.25	F1	ug/L		63	70 - 129
1,1-Dichloropropene	ND	F1 F2	10.0	5.97	F1	ug/L		60	80 - 120
1,2,3-Trichlorobenzene	ND		10.0	4.93	J	ug/L		49	23 - 150
1,2,3-Trichloropropane	ND	F1	10.0	6.28	F1	ug/L		63	76 - 124
1,2,4-Trichlorobenzene	ND	F1	10.0	4.52	F1	ug/L		45	57 - 140
1,2-Dibromo-3-Chloropropane	ND	F1 F2	10.0	5.00	J F1	ug/L		50	65 - 125
1,2-Dichlorobenzene	ND	F1 F2	10.0	5.44	F1	ug/L		54	80 - 120
1,2-Dichloroethane	ND	F1 F2	10.0	6.00	F1	ug/L		60	76 - 131
1,2-Dichloropropane	ND	F1	10.0	5.88	F1	ug/L		59	72 - 126
1,3,5-Trimethylbenzene	ND	F1 F2	10.0	5.48	F1	ug/L		55	80 - 120
1,3-Dichlorobenzene	ND	F1 F2	10.0	5.04	F1	ug/L		50	80 - 120
1,3-Dichloropropane	ND	F1	10.0	5.89	F1	ug/L		59	79 - 120
1,4-Dichlorobenzene	ND	F1 F2	10.0	5.10	F1	ug/L		51	80 - 120
2,2-Dichloropropane	ND	F1	10.0	5.07	F1	ug/L		51	62 - 140
2-Chlorotoluene	ND	F1 F2	10.0	5.50	F1	ug/L		55	80 - 120
4-Chlorotoluene	ND	F1 F2	10.0	5.28	F1	ug/L		53	80 - 120
4-Isopropyltoluene	ND	F1 F2	10.0	4.79	F1	ug/L		48	77 - 120
Benzene	ND	F1 F2	10.0	6.56	F1	ug/L		66	75 - 121
Bromobenzene	ND	F1 F2	10.0	5.62	F1	ug/L		56	80 - 120
Bromoform	ND	F1 F2	10.0	4.06	F1	ug/L		41	61 - 132
Bromomethane	ND	F1	10.0	6.19	F1	ug/L		62	66 - 125
Carbon tetrachloride	ND	F1 F2	10.0	6.14	F1	ug/L		61	72 - 129
Chlorobenzene	ND	F1 F2	10.0	5.63	F1	ug/L		56	80 - 120
Chlorobromomethane	ND	F1 F2	10.0	6.41	F1	ug/L		64	78 - 120

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

Lab Sample ID: 580-93265-12 MS
Matrix: Water
Analysis Batch: 324681

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	ND	F1 F2	10.0	5.09	F1	ug/L		51	71 - 120
Chloroethane	ND		10.0	6.50		ug/L		65	65 - 132
Chloroform	ND	F1	10.0	6.28	F1	ug/L		63	73 - 127
Chloromethane	ND		10.0	5.93	J	ug/L		59	52 - 135
cis-1,2-Dichloroethene	ND	F1 F2	10.0	6.24	F1	ug/L		62	76 - 129
cis-1,3-Dichloropropene	ND	F1 F2	10.0	5.24	F1	ug/L		52	77 - 120
Dibromomethane	ND	F1 F2	10.0	6.19	F1	ug/L		62	80 - 120
Dichlorobromomethane	ND	F1 F2	10.0	5.51	F1	ug/L		55	75 - 124
Dichlorodifluoromethane	ND		10.0	4.46	J	ug/L		45	20 - 150
Ethylene Dibromide	ND	F1 F2	10.0	5.72	F1	ug/L		57	79 - 120
Hexachlorobutadiene	ND	F1 F2	10.0	3.95	J F1	ug/L		39	74 - 125
Isopropylbenzene	ND	F1 F2	10.0	5.56	F1	ug/L		56	75 - 120
Methyl tert-butyl ether	ND	F1 F2	10.0	5.65	F1	ug/L		56	72 - 130
Methylene Chloride	ND	F1	10.0	6.31	F1	ug/L		63	77 - 125
n-Butylbenzene	ND	F1 F2	10.0	4.46	F1	ug/L		45	78 - 120
N-Propylbenzene	ND	F1 F2	10.0	5.24	F1	ug/L		52	80 - 120
o-Xylene	ND	F1 F2	10.0	5.66	F1	ug/L		57	80 - 120
sec-Butylbenzene	ND	F1 F2	10.0	5.21	F1	ug/L		52	78 - 120
Styrene	ND	F1 F2	10.0	5.47	F1	ug/L		55	76 - 121
tert-Butylbenzene	ND	F1 F2	10.0	5.64	F1	ug/L		56	80 - 121
Tetrachloroethene	ND	F1 F2	10.0	5.08	F1	ug/L		51	76 - 120
Toluene	ND	F1 F2	10.0	5.86	F1	ug/L		59	80 - 120
trans-1,2-Dichloroethene	ND	F1	10.0	6.28	F1	ug/L		63	77 - 124
trans-1,3-Dichloropropene	ND	F1 F2	10.0	4.75	F1	ug/L		47	80 - 122
Trichloroethene	ND	F1 F2	10.0	5.89	F1	ug/L		59	70 - 120
Trichlorofluoromethane	ND	F1	10.0	5.89	F1	ug/L		59	64 - 136
Vinyl chloride	ND	F1	10.0	6.05	F1	ug/L		60	65 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*80 - 120*

Lab Sample ID: 580-93265-12 MSD
Matrix: Water
Analysis Batch: 324681

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	F1 F2	10.0	7.41	F1 F2	ug/L		74	79 - 120	27	20
1,1,1-Trichloroethane	ND	F1 F2	10.0	8.10	F2	ug/L		81	74 - 130	21	18
1,1,2,2-Tetrachloroethane	ND	F1 F2	10.0	7.09	F1 F2	ug/L		71	74 - 124	20	18
1,1,2-Trichloroethane	ND	F1	10.0	7.15	F1	ug/L		72	80 - 121	19	21
1,1-Dichloroethane	ND	F1	10.0	7.73		ug/L		77	70 - 129	21	26
1,1-Dichloroethene	ND	F1	10.0	8.11		ug/L		81	70 - 129	26	27
1,1-Dichloropropene	ND	F1 F2	10.0	7.53	F1 F2	ug/L		75	80 - 120	23	14
1,2,3-Trichlorobenzene	ND		10.0	6.17		ug/L		62	23 - 150	22	35

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

Lab Sample ID: 580-93265-12 MSD
Matrix: Water
Analysis Batch: 324681

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND	F1	10.0	7.70		ug/L		77	76 - 124	20	30
1,2,4-Trichlorobenzene	ND	F1	10.0	5.76		ug/L		58	57 - 140	24	27
1,2-Dibromo-3-Chloropropane	ND	F1 F2	10.0	6.71	J F2	ug/L		67	65 - 125	29	27
1,2-Dichlorobenzene	ND	F1 F2	10.0	7.00	F1 F2	ug/L		70	80 - 120	25	15
1,2-Dichloroethane	ND	F1 F2	10.0	7.64	F2	ug/L		76	76 - 131	24	18
1,2-Dichloropropane	ND	F1	10.0	7.33		ug/L		73	72 - 126	22	26
1,3,5-Trimethylbenzene	ND	F1 F2	10.0	6.98	F1 F2	ug/L		70	80 - 120	24	14
1,3-Dichlorobenzene	ND	F1 F2	10.0	6.41	F1 F2	ug/L		64	80 - 120	24	14
1,3-Dichloropropane	ND	F1	10.0	7.46	F1	ug/L		75	79 - 120	24	26
1,4-Dichlorobenzene	ND	F1 F2	10.0	6.39	F1 F2	ug/L		64	80 - 120	22	17
2,2-Dichloropropane	ND	F1	10.0	6.28		ug/L		63	62 - 140	21	23
2-Chlorotoluene	ND	F1 F2	10.0	7.16	F1 F2	ug/L		72	80 - 120	26	15
4-Chlorotoluene	ND	F1 F2	10.0	6.89	F1 F2	ug/L		69	80 - 120	26	14
4-Isopropyltoluene	ND	F1 F2	10.0	6.33	F1 F2	ug/L		63	77 - 120	28	13
Benzene	ND	F1 F2	10.0	7.78	F2	ug/L		78	75 - 121	17	14
Bromobenzene	ND	F1 F2	10.0	7.38	F1 F2	ug/L		74	80 - 120	27	13
Bromoform	ND	F1 F2	10.0	5.45	F1 F2	ug/L		54	61 - 132	29	20
Bromomethane	ND	F1	10.0	7.29		ug/L		73	66 - 125	16	27
Carbon tetrachloride	ND	F1 F2	10.0	7.85	F2	ug/L		78	72 - 129	24	19
Chlorobenzene	ND	F1 F2	10.0	7.06	F1 F2	ug/L		71	80 - 120	23	15
Chlorobromomethane	ND	F1 F2	10.0	8.13	F2	ug/L		81	78 - 120	24	20
Chlorodibromomethane	ND	F1 F2	10.0	6.73	F1 F2	ug/L		67	71 - 120	28	24
Chloroethane	ND		10.0	6.94		ug/L		69	65 - 132	7	35
Chloroform	ND	F1	10.0	7.74		ug/L		77	73 - 127	21	22
Chloromethane	ND		10.0	6.64	J	ug/L		66	52 - 135	11	23
cis-1,2-Dichloroethene	ND	F1 F2	10.0	7.70	F2	ug/L		77	76 - 129	21	15
cis-1,3-Dichloropropene	ND	F1 F2	10.0	6.63	F1 F2	ug/L		66	77 - 120	23	20
Dibromomethane	ND	F1 F2	10.0	7.93	F1 F2	ug/L		79	80 - 120	25	22
Dichlorobromomethane	ND	F1 F2	10.0	7.25	F1 F2	ug/L		72	75 - 124	27	22
Dichlorodifluoromethane	ND		10.0	5.55	J	ug/L		55	20 - 150	22	35
Ethylene Dibromide	ND	F1 F2	10.0	7.28	F1 F2	ug/L		73	79 - 120	24	20
Hexachlorobutadiene	ND	F1 F2	10.0	5.81	J F1 F2	ug/L		58	74 - 125	38	22
Isopropylbenzene	ND	F1 F2	10.0	7.08	F1 F2	ug/L		71	75 - 120	24	20
Methyl tert-butyl ether	ND	F1 F2	10.0	7.32	F2	ug/L		73	72 - 130	26	18
Methylene Chloride	ND	F1	10.0	7.49	F1	ug/L		75	77 - 125	17	18
n-Butylbenzene	ND	F1 F2	10.0	5.95	F1 F2	ug/L		59	78 - 120	29	14
N-Propylbenzene	ND	F1 F2	10.0	6.72	F1 F2	ug/L		67	80 - 120	25	13
o-Xylene	ND	F1 F2	10.0	7.19	F1 F2	ug/L		72	80 - 120	24	16
sec-Butylbenzene	ND	F1 F2	10.0	6.79	F1 F2	ug/L		68	78 - 120	26	15
Styrene	ND	F1 F2	10.0	6.95	F1 F2	ug/L		69	76 - 121	24	16
tert-Butylbenzene	ND	F1 F2	10.0	7.28	F1 F2	ug/L		73	80 - 121	25	14
Tetrachloroethene	ND	F1 F2	10.0	6.79	F1 F2	ug/L		68	76 - 120	29	20
Toluene	ND	F1 F2	10.0	7.23	F1 F2	ug/L		72	80 - 120	21	19
trans-1,2-Dichloroethene	ND	F1	10.0	7.72		ug/L		77	77 - 124	21	21
trans-1,3-Dichloropropene	ND	F1 F2	10.0	6.21	F1 F2	ug/L		62	80 - 122	27	25
Trichloroethene	ND	F1 F2	10.0	7.57	F2	ug/L		76	70 - 120	25	21
Trichlorofluoromethane	ND	F1	10.0	7.36		ug/L		74	64 - 136	22	27
Vinyl chloride	ND	F1	10.0	7.00		ug/L		70	65 - 130	15	28

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

Lab Sample ID: 580-93265-12 MSD
Matrix: Water
Analysis Batch: 324681

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 580-324766/7
Matrix: Water
Analysis Batch: 324766

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		3.0	0.56	ug/L			03/13/20 03:13	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/13/20 03:13	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/13/20 03:13	1
Chloroform	ND		5.0	0.50	ug/L			03/13/20 03:13	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/13/20 03:13	1
Trichloroethene	ND		3.0	0.85	ug/L			03/13/20 03:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 126*		*03/13/20 03:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/13/20 03:13*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*03/13/20 03:13*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/13/20 03:13*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*03/13/20 03:13*	*1*

Lab Sample ID: LCS 580-324766/4
Matrix: Water
Analysis Batch: 324766

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	10.0	4.01	*	ug/L		40	61 - 132
Carbon tetrachloride	10.0	9.90		ug/L		99	72 - 129
Chlorodibromomethane	10.0	6.88	*	ug/L		69	71 - 120
Chloroform	10.0	10.5		ug/L		105	73 - 127
trans-1,3-Dichloropropene	10.0	6.94	*	ug/L		69	80 - 122
Trichloroethene	10.0	11.1		ug/L		111	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*80 - 120*

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

Lab Sample ID: LCSD 580-324766/5
Matrix: Water
Analysis Batch: 324766

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	3.44	*	ug/L		34	61 - 132	15	20
Carbon tetrachloride			10.0	9.71		ug/L		97	72 - 129	2	19
Chlorodibromomethane			10.0	6.42	*	ug/L		64	71 - 120	7	24
Chloroform			10.0	10.7		ug/L		107	73 - 127	2	22
trans-1,3-Dichloropropene			10.0	5.91	*	ug/L		59	80 - 122	16	25
Trichloroethene			10.0	11.6		ug/L		116	70 - 120	5	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
Trifluorotoluene (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 580-324877/7
Matrix: Water
Analysis Batch: 324877

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/14/20 14:56	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/14/20 14:56	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/14/20 14:56	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/14/20 14:56	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/14/20 14:56	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/14/20 14:56	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/14/20 14:56	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/14/20 14:56	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/14/20 14:56	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/14/20 14:56	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/14/20 14:56	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/14/20 14:56	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/14/20 14:56	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/14/20 14:56	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/14/20 14:56	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/14/20 14:56	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/14/20 14:56	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/14/20 14:56	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/14/20 14:56	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/14/20 14:56	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/14/20 14:56	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/14/20 14:56	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/14/20 14:56	1
Benzene	ND		3.0	0.53	ug/L			03/14/20 14:56	1
Bromobenzene	ND		2.0	0.43	ug/L			03/14/20 14:56	1
Bromoform	ND		3.0	0.56	ug/L			03/14/20 14:56	1
Bromomethane	ND		6.0	1.1	ug/L			03/14/20 14:56	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/14/20 14:56	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/14/20 14:56	1

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

Lab Sample ID: MB 580-324877/7
Matrix: Water
Analysis Batch: 324877

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		2.0	0.29	ug/L			03/14/20 14:56	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/14/20 14:56	1
Chloroethane	ND		5.0	1.1	ug/L			03/14/20 14:56	1
Chloroform	ND		5.0	0.50	ug/L			03/14/20 14:56	1
Chloromethane	ND		20	5.4	ug/L			03/14/20 14:56	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/14/20 14:56	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/20 14:56	1
Dibromomethane	ND		2.0	0.34	ug/L			03/14/20 14:56	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/14/20 14:56	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/14/20 14:56	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/14/20 14:56	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/14/20 14:56	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/14/20 14:56	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/14/20 14:56	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/14/20 14:56	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/14/20 14:56	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/14/20 14:56	1
Naphthalene	ND		4.0	0.93	ug/L			03/14/20 14:56	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/14/20 14:56	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/14/20 14:56	1
o-Xylene	ND		2.0	0.39	ug/L			03/14/20 14:56	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/14/20 14:56	1
Styrene	ND		5.0	1.0	ug/L			03/14/20 14:56	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/14/20 14:56	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/14/20 14:56	1
Toluene	ND		2.0	0.39	ug/L			03/14/20 14:56	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/14/20 14:56	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/14/20 14:56	1
Trichloroethene	ND		3.0	0.85	ug/L			03/14/20 14:56	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/14/20 14:56	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/14/20 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 126*		*03/14/20 14:56*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*03/14/20 14:56*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/14/20 14:56*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/20 14:56*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/14/20 14:56*	*1*

Lab Sample ID: LCS 580-324877/4
Matrix: Water
Analysis Batch: 324877

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	79 - 120
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	74 - 130
1,1,2,2-Tetrachloroethane	10.0	11.4		ug/L		114	74 - 124
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	80 - 121

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

Lab Sample ID: LCS 580-324877/4
Matrix: Water
Analysis Batch: 324877

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	10.0	10.8		ug/L		108	70 - 129
1,1-Dichloroethene	10.0	11.1		ug/L		111	70 - 129
1,1-Dichloropropene	10.0	11.0		ug/L		110	80 - 120
1,2,3-Trichlorobenzene	10.0	10.8		ug/L		108	23 - 150
1,2,3-Trichloropropane	10.0	11.6		ug/L		116	76 - 124
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	57 - 140
1,2,4-Trimethylbenzene	10.0	11.6		ug/L		116	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	11.5		ug/L		115	65 - 125
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.6		ug/L		106	76 - 131
1,2-Dichloropropane	10.0	11.0		ug/L		110	72 - 126
1,3,5-Trimethylbenzene	10.0	11.5		ug/L		115	80 - 120
1,3-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	11.4		ug/L		114	79 - 120
1,4-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
2,2-Dichloropropane	10.0	11.1		ug/L		111	62 - 140
2-Chlorotoluene	10.0	11.1		ug/L		111	80 - 120
4-Chlorotoluene	10.0	11.2		ug/L		112	80 - 120
4-Isopropyltoluene	10.0	11.4		ug/L		114	77 - 120
Benzene	10.0	10.8		ug/L		108	75 - 121
Bromobenzene	10.0	10.7		ug/L		107	80 - 120
Bromoform	10.0	8.79		ug/L		88	61 - 132
Bromomethane	10.0	9.40		ug/L		94	66 - 125
Carbon tetrachloride	10.0	10.4		ug/L		104	72 - 129
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
Chlorobromomethane	10.0	10.5		ug/L		105	78 - 120
Chlorodibromomethane	10.0	9.94		ug/L		99	71 - 120
Chloroethane	10.0	9.69		ug/L		97	65 - 132
Chloroform	10.0	10.9		ug/L		109	73 - 127
Chloromethane	10.0	9.42	J	ug/L		94	52 - 135
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	76 - 129
cis-1,3-Dichloropropene	10.0	10.7		ug/L		107	77 - 120
Dibromomethane	10.0	10.5		ug/L		105	80 - 120
Dichlorobromomethane	10.0	10.3		ug/L		103	75 - 124
Dichlorodifluoromethane	10.0	10.3		ug/L		103	20 - 150
Ethylbenzene	10.0	11.2		ug/L		112	80 - 120
Ethylene Dibromide	10.0	11.0		ug/L		110	79 - 120
Hexachlorobutadiene	10.0	10.3		ug/L		103	74 - 125
Isopropylbenzene	10.0	11.3		ug/L		113	75 - 120
Methyl tert-butyl ether	10.0	10.8		ug/L		108	72 - 130
Methylene Chloride	10.0	10.1		ug/L		101	77 - 125
m-Xylene & p-Xylene	10.0	11.0		ug/L		110	80 - 120
Naphthalene	10.0	11.0		ug/L		110	44 - 144
n-Butylbenzene	10.0	11.1		ug/L		111	78 - 120
N-Propylbenzene	10.0	11.3		ug/L		113	80 - 120
o-Xylene	10.0	11.2		ug/L		112	80 - 120
sec-Butylbenzene	10.0	11.3		ug/L		113	78 - 120
Styrene	10.0	11.1		ug/L		111	76 - 121
tert-Butylbenzene	10.0	11.5		ug/L		115	80 - 121

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

Lab Sample ID: LCS 580-324877/4
Matrix: Water
Analysis Batch: 324877

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	10.0	10.9		ug/L		109	76 - 120
Toluene	10.0	10.6		ug/L		106	80 - 120
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	77 - 124
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	80 - 122
Trichloroethene	10.0	10.8		ug/L		108	70 - 120
Trichlorofluoromethane	10.0	10.3		ug/L		103	64 - 136
Vinyl chloride	10.0	9.73		ug/L		97	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-324877/5
Matrix: Water
Analysis Batch: 324877

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	79 - 120	2	20
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	74 - 130	1	18
1,1,2,2-Tetrachloroethane	10.0	11.5		ug/L		115	74 - 124	0	18
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	80 - 121	0	21
1,1-Dichloroethane	10.0	10.7		ug/L		107	70 - 129	1	26
1,1-Dichloroethene	10.0	10.4		ug/L		104	70 - 129	6	27
1,1-Dichloropropene	10.0	11.0		ug/L		110	80 - 120	0	14
1,2,3-Trichlorobenzene	10.0	10.9		ug/L		109	23 - 150	0	35
1,2,3-Trichloropropane	10.0	12.2		ug/L		122	76 - 124	5	30
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	57 - 140	1	27
1,2,4-Trimethylbenzene	10.0	11.7		ug/L		117	80 - 120	1	16
1,2-Dibromo-3-Chloropropane	10.0	11.5		ug/L		115	65 - 125	0	27
1,2-Dichlorobenzene	10.0	11.2		ug/L		112	80 - 120	3	15
1,2-Dichloroethane	10.0	10.6		ug/L		106	76 - 131	0	18
1,2-Dichloropropane	10.0	10.6		ug/L		106	72 - 126	3	26
1,3,5-Trimethylbenzene	10.0	11.5		ug/L		115	80 - 120	0	14
1,3-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120	2	14
1,3-Dichloropropane	10.0	11.3		ug/L		113	79 - 120	1	26
1,4-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120	1	17
2,2-Dichloropropane	10.0	10.6		ug/L		106	62 - 140	5	23
2-Chlorotoluene	10.0	11.3		ug/L		113	80 - 120	1	15
4-Chlorotoluene	10.0	11.5		ug/L		115	80 - 120	2	14
4-Isopropyltoluene	10.0	11.4		ug/L		114	77 - 120	0	13
Benzene	10.0	10.6		ug/L		106	75 - 121	2	14
Bromobenzene	10.0	10.9		ug/L		109	80 - 120	2	13
Bromoform	10.0	8.88		ug/L		89	61 - 132	1	20
Bromomethane	10.0	9.33		ug/L		93	66 - 125	1	27
Carbon tetrachloride	10.0	10.3		ug/L		103	72 - 129	1	19

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

Lab Sample ID: LCSD 580-324877/5
Matrix: Water
Analysis Batch: 324877

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
Chlorobenzene			10.0	10.7		ug/L		107	80 - 120	1	15
Chlorobromomethane			10.0	10.8		ug/L		108	78 - 120	3	20
Chlorodibromomethane			10.0	10.0		ug/L		100	71 - 120	1	24
Chloroethane			10.0	9.79		ug/L		98	65 - 132	1	35
Chloroform			10.0	10.7		ug/L		107	73 - 127	2	22
Chloromethane			10.0	9.31	J	ug/L		93	52 - 135	1	23
cis-1,2-Dichloroethene			10.0	10.6		ug/L		106	76 - 129	3	15
cis-1,3-Dichloropropene			10.0	10.7		ug/L		107	77 - 120	0	20
Dibromomethane			10.0	10.7		ug/L		107	80 - 120	1	22
Dichlorobromomethane			10.0	10.3		ug/L		103	75 - 124	1	22
Dichlorodifluoromethane			10.0	9.85	J	ug/L		99	20 - 150	5	35
Ethylbenzene			10.0	11.0		ug/L		110	80 - 120	2	14
Ethylene Dibromide			10.0	11.0		ug/L		110	79 - 120	0	20
Hexachlorobutadiene			10.0	10.5		ug/L		105	74 - 125	2	22
Isopropylbenzene			10.0	11.0		ug/L		110	75 - 120	2	20
Methyl tert-butyl ether			10.0	11.1		ug/L		111	72 - 130	3	18
Methylene Chloride			10.0	10.0		ug/L		100	77 - 125	1	18
m-Xylene & p-Xylene			10.0	10.9		ug/L		109	80 - 120	1	14
Naphthalene			10.0	11.3		ug/L		113	44 - 144	3	31
n-Butylbenzene			10.0	11.2		ug/L		112	78 - 120	1	14
N-Propylbenzene			10.0	11.2		ug/L		112	80 - 120	0	13
o-Xylene			10.0	11.0		ug/L		110	80 - 120	2	16
sec-Butylbenzene			10.0	11.3		ug/L		113	78 - 120	0	15
Styrene			10.0	11.0		ug/L		110	76 - 121	1	16
tert-Butylbenzene			10.0	11.4		ug/L		114	80 - 121	1	14
Tetrachloroethene			10.0	10.8		ug/L		108	76 - 120	1	20
Toluene			10.0	10.4		ug/L		104	80 - 120	2	19
trans-1,2-Dichloroethene			10.0	10.4		ug/L		104	77 - 124	2	21
trans-1,3-Dichloropropene			10.0	10.5		ug/L		105	80 - 122	0	25
Trichloroethene			10.0	10.4		ug/L		104	70 - 120	4	21
Trichlorofluoromethane			10.0	10.0		ug/L		100	64 - 136	2	27
Vinyl chloride			10.0	9.70		ug/L		97	65 - 130	0	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*99*		*80 - 120*

Lab Sample ID: 580-93265-27 MS
Matrix: Water
Analysis Batch: 324877

Client Sample ID: MW11-030520
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 126*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*

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

Lab Sample ID: 580-93265-27 MS
Matrix: Water
Analysis Batch: 324877

Client Sample ID: MW11-030520
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*80 - 120*

Lab Sample ID: 580-93265-27 MSD
Matrix: Water
Analysis Batch: 324877

Client Sample ID: MW11-030520
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 580-324973/7
Matrix: Water
Analysis Batch: 324973

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			03/17/20 09:58	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			03/17/20 09:58	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			03/17/20 09:58	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			03/17/20 09:58	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			03/17/20 09:58	1
1,1-Dichloroethene	ND		4.0	0.78	ug/L			03/17/20 09:58	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			03/17/20 09:58	1
1,2,3-Trichlorobenzene	ND		5.0	1.1	ug/L			03/17/20 09:58	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			03/17/20 09:58	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			03/17/20 09:58	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			03/17/20 09:58	1
1,2-Dibromo-3-Chloropropane	ND		10	1.8	ug/L			03/17/20 09:58	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			03/17/20 09:58	1
1,2-Dichloroethane	ND		2.0	0.53	ug/L			03/17/20 09:58	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			03/17/20 09:58	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			03/17/20 09:58	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			03/17/20 09:58	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			03/17/20 09:58	1
1,4-Dichlorobenzene	ND		4.0	0.98	ug/L			03/17/20 09:58	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			03/17/20 09:58	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			03/17/20 09:58	1
4-Chlorotoluene	ND		2.0	0.51	ug/L			03/17/20 09:58	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			03/17/20 09:58	1
Benzene	ND		3.0	0.53	ug/L			03/17/20 09:58	1
Bromobenzene	ND		2.0	0.43	ug/L			03/17/20 09:58	1
Bromoform	ND		3.0	0.56	ug/L			03/17/20 09:58	1
Bromomethane	ND		6.0	1.1	ug/L			03/17/20 09:58	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			03/17/20 09:58	1
Chlorobenzene	ND		2.0	0.44	ug/L			03/17/20 09:58	1

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

Lab Sample ID: MB 580-324973/7
Matrix: Water
Analysis Batch: 324973

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		2.0	0.29	ug/L			03/17/20 09:58	1
Chlorodibromomethane	ND		2.0	0.50	ug/L			03/17/20 09:58	1
Chloroethane	ND		5.0	1.1	ug/L			03/17/20 09:58	1
Chloroform	ND		5.0	0.50	ug/L			03/17/20 09:58	1
Chloromethane	ND		20	5.4	ug/L			03/17/20 09:58	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			03/17/20 09:58	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/17/20 09:58	1
Dibromomethane	ND		2.0	0.34	ug/L			03/17/20 09:58	1
Dichlorobromomethane	ND		2.0	0.14	ug/L			03/17/20 09:58	1
Dichlorodifluoromethane	ND		10	2.3	ug/L			03/17/20 09:58	1
Ethylbenzene	ND		3.0	0.50	ug/L			03/17/20 09:58	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			03/17/20 09:58	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			03/17/20 09:58	1
Isopropylbenzene	ND		2.0	0.51	ug/L			03/17/20 09:58	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			03/17/20 09:58	1
Methylene Chloride	ND		5.0	1.4	ug/L			03/17/20 09:58	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			03/17/20 09:58	1
Naphthalene	ND		4.0	0.93	ug/L			03/17/20 09:58	1
n-Butylbenzene	ND		3.0	0.44	ug/L			03/17/20 09:58	1
N-Propylbenzene	ND		3.0	0.50	ug/L			03/17/20 09:58	1
o-Xylene	ND		2.0	0.39	ug/L			03/17/20 09:58	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			03/17/20 09:58	1
Styrene	ND		5.0	1.0	ug/L			03/17/20 09:58	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			03/17/20 09:58	1
Tetrachloroethene	ND		3.0	0.41	ug/L			03/17/20 09:58	1
Toluene	ND		2.0	0.39	ug/L			03/17/20 09:58	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			03/17/20 09:58	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			03/17/20 09:58	1
Trichloroethene	ND		3.0	0.85	ug/L			03/17/20 09:58	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			03/17/20 09:58	1
Vinyl chloride	ND		1.0	0.22	ug/L			03/17/20 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 126*		*03/17/20 09:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/17/20 09:58*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/17/20 09:58*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/17/20 09:58*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*03/17/20 09:58*	*1*

Lab Sample ID: LCS 580-324973/4
Matrix: Water
Analysis Batch: 324973

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	79 - 120
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	74 - 130
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	74 - 124
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 121

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

Lab Sample ID: LCS 580-324973/4
Matrix: Water
Analysis Batch: 324973

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	10.0	10.7		ug/L		107	70 - 129
1,1-Dichloroethene	10.0	11.0		ug/L		110	70 - 129
1,1-Dichloropropene	10.0	11.2		ug/L		112	80 - 120
1,2,3-Trichlorobenzene	10.0	9.77		ug/L		98	23 - 150
1,2,3-Trichloropropane	10.0	10.7		ug/L		107	76 - 124
1,2,4-Trichlorobenzene	10.0	10.1		ug/L		101	57 - 140
1,2,4-Trimethylbenzene	10.0	11.3		ug/L		113	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	65 - 125
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 131
1,2-Dichloropropane	10.0	10.4		ug/L		104	72 - 126
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 120
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,3-Dichloropropane	10.0	10.5		ug/L		105	79 - 120
1,4-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
2,2-Dichloropropane	10.0	11.0		ug/L		110	62 - 140
2-Chlorotoluene	10.0	10.8		ug/L		108	80 - 120
4-Chlorotoluene	10.0	10.8		ug/L		108	80 - 120
4-Isopropyltoluene	10.0	11.3		ug/L		113	77 - 120
Benzene	10.0	10.3		ug/L		103	75 - 121
Bromobenzene	10.0	10.4		ug/L		104	80 - 120
Bromoform	10.0	9.43		ug/L		94	61 - 132
Bromomethane	10.0	9.81		ug/L		98	66 - 125
Carbon tetrachloride	10.0	10.5		ug/L		105	72 - 129
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
Chlorobromomethane	10.0	10.4		ug/L		104	78 - 120
Chlorodibromomethane	10.0	9.90		ug/L		99	71 - 120
Chloroethane	10.0	10.4		ug/L		104	65 - 132
Chloroform	10.0	10.8		ug/L		108	73 - 127
Chloromethane	10.0	9.90	J	ug/L		99	52 - 135
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	76 - 129
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	77 - 120
Dibromomethane	10.0	10.0		ug/L		100	80 - 120
Dichlorobromomethane	10.0	10.2		ug/L		102	75 - 124
Dichlorodifluoromethane	10.0	10.4		ug/L		104	20 - 150
Ethylbenzene	10.0	10.8		ug/L		108	80 - 120
Ethylene Dibromide	10.0	10.4		ug/L		104	79 - 120
Hexachlorobutadiene	10.0	10.7		ug/L		107	74 - 125
Isopropylbenzene	10.0	11.1		ug/L		111	75 - 120
Methyl tert-butyl ether	10.0	10.6		ug/L		106	72 - 130
Methylene Chloride	10.0	10.1		ug/L		101	77 - 125
m-Xylene & p-Xylene	10.0	10.9		ug/L		109	80 - 120
Naphthalene	10.0	9.94		ug/L		99	44 - 144
n-Butylbenzene	10.0	10.9		ug/L		109	78 - 120
N-Propylbenzene	10.0	11.1		ug/L		111	80 - 120
o-Xylene	10.0	11.0		ug/L		110	80 - 120
sec-Butylbenzene	10.0	11.2		ug/L		112	78 - 120
Styrene	10.0	10.5		ug/L		105	76 - 121
tert-Butylbenzene	10.0	11.2		ug/L		112	80 - 121

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

Lab Sample ID: LCS 580-324973/4
Matrix: Water
Analysis Batch: 324973

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	10.0	10.7		ug/L		107	76 - 120
Toluene	10.0	10.3		ug/L		103	80 - 120
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	77 - 124
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	80 - 122
Trichloroethene	10.0	10.4		ug/L		104	70 - 120
Trichlorofluoromethane	10.0	10.9		ug/L		109	64 - 136
Vinyl chloride	10.0	10.4		ug/L		104	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-324973/5
Matrix: Water
Analysis Batch: 324973

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.3		ug/L		103	79 - 120	1	20
1,1,1-Trichloroethane	10.0	10.9		ug/L		109	74 - 130	2	18
1,1,2,2-Tetrachloroethane	10.0	10.8		ug/L		108	74 - 124	5	18
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 121	1	21
1,1-Dichloroethane	10.0	10.9		ug/L		109	70 - 129	2	26
1,1-Dichloroethene	10.0	11.3		ug/L		113	70 - 129	3	27
1,1-Dichloropropene	10.0	11.0		ug/L		110	80 - 120	2	14
1,2,3-Trichlorobenzene	10.0	9.89		ug/L		99	23 - 150	1	35
1,2,3-Trichloropropane	10.0	11.1		ug/L		111	76 - 124	4	30
1,2,4-Trichlorobenzene	10.0	10.3		ug/L		103	57 - 140	2	27
1,2,4-Trimethylbenzene	10.0	11.5		ug/L		115	80 - 120	2	16
1,2-Dibromo-3-Chloropropane	10.0	10.0		ug/L		100	65 - 125	1	27
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120	2	15
1,2-Dichloroethane	10.0	10.6		ug/L		106	76 - 131	5	18
1,2-Dichloropropane	10.0	10.6		ug/L		106	72 - 126	1	26
1,3,5-Trimethylbenzene	10.0	11.4		ug/L		114	80 - 120	2	14
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120	1	14
1,3-Dichloropropane	10.0	10.9		ug/L		109	79 - 120	4	26
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120	3	17
2,2-Dichloropropane	10.0	11.1		ug/L		111	62 - 140	0	23
2-Chlorotoluene	10.0	11.1		ug/L		111	80 - 120	3	15
4-Chlorotoluene	10.0	11.0		ug/L		110	80 - 120	2	14
4-Isopropyltoluene	10.0	11.5		ug/L		115	77 - 120	1	13
Benzene	10.0	10.7		ug/L		107	75 - 121	3	14
Bromobenzene	10.0	10.8		ug/L		108	80 - 120	4	13
Bromoform	10.0	9.24		ug/L		92	61 - 132	2	20
Bromomethane	10.0	9.94		ug/L		99	66 - 125	1	27
Carbon tetrachloride	10.0	10.7		ug/L		107	72 - 129	2	19

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

Lab Sample ID: LCSD 580-324973/5
Matrix: Water
Analysis Batch: 324973

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
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120	0	15
Chlorobromomethane	10.0	10.6		ug/L		106	78 - 120	2	20
Chlorodibromomethane	10.0	10.1		ug/L		101	71 - 120	1	24
Chloroethane	10.0	10.3		ug/L		103	65 - 132	1	35
Chloroform	10.0	10.6		ug/L		106	73 - 127	1	22
Chloromethane	10.0	9.66	J	ug/L		97	52 - 135	2	23
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	76 - 129	0	15
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	77 - 120	0	20
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	1	22
Dichlorobromomethane	10.0	10.4		ug/L		104	75 - 124	2	22
Dichlorodifluoromethane	10.0	10.2		ug/L		102	20 - 150	2	35
Ethylbenzene	10.0	10.9		ug/L		109	80 - 120	0	14
Ethylene Dibromide	10.0	10.7		ug/L		107	79 - 120	3	20
Hexachlorobutadiene	10.0	10.2		ug/L		102	74 - 125	4	22
Isopropylbenzene	10.0	11.1		ug/L		111	75 - 120	0	20
Methyl tert-butyl ether	10.0	10.8		ug/L		108	72 - 130	2	18
Methylene Chloride	10.0	10.1		ug/L		101	77 - 125	0	18
m-Xylene & p-Xylene	10.0	10.9		ug/L		109	80 - 120	0	14
Naphthalene	10.0	10.1		ug/L		101	44 - 144	1	31
n-Butylbenzene	10.0	11.3		ug/L		113	78 - 120	3	14
N-Propylbenzene	10.0	11.4		ug/L		114	80 - 120	3	13
o-Xylene	10.0	11.1		ug/L		111	80 - 120	1	16
sec-Butylbenzene	10.0	11.4		ug/L		114	78 - 120	2	15
Styrene	10.0	10.7		ug/L		107	76 - 121	2	16
tert-Butylbenzene	10.0	11.5		ug/L		115	80 - 121	3	14
Tetrachloroethene	10.0	10.6		ug/L		106	76 - 120	1	20
Toluene	10.0	10.3		ug/L		103	80 - 120	0	19
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	77 - 124	3	21
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	80 - 122	3	25
Trichloroethene	10.0	10.6		ug/L		106	70 - 120	1	21
Trichlorofluoromethane	10.0	10.9		ug/L		109	64 - 136	0	27
Vinyl chloride	10.0	10.3		ug/L		103	65 - 130	1	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*98*		*80 - 120*

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

Lab Sample ID: 580-93265-12 MS
Matrix: Water
Analysis Batch: 324973

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene - RA	ND	F1 F2	10.0	6.45	F1	ug/L		64	80 - 120
Ethylbenzene - RA	ND	F1 F2	10.0	6.34	F1	ug/L		63	80 - 120

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

Lab Sample ID: 580-93265-12 MS
Matrix: Water
Analysis Batch: 324973

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene - RA	ND	F1 F2	10.0	6.27	F1	ug/L		63	80 - 120
Naphthalene - RA	ND	F1 F2	10.0	5.30		ug/L		53	44 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*101*		*80 - 126*
4-Bromofluorobenzene (Surr) - RA	*97*		*80 - 120*
Dibromofluoromethane (Surr) - RA	*98*		*80 - 120*
Toluene-d8 (Surr) - RA	*102*		*80 - 120*
Trifluorotoluene (Surr) - RA	*101*		*80 - 120*

Lab Sample ID: 580-93265-12 MSD
Matrix: Water
Analysis Batch: 324973

Client Sample ID: MW-10-030320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene - RA	ND	F1 F2	10.0	4.66	F1 F7	ug/L		47	80 - 120	32	16
Ethylbenzene - RA	ND	F1 F2	10.0	4.77	F1 F7	ug/L		48	80 - 120	28	14
m-Xylene & p-Xylene - RA	ND	F1 F2	10.0	4.67	F1 F7	ug/L		47	80 - 120	29	14
Naphthalene - RA	ND	F1 F2	10.0	3.82	J F1 F7	ug/L		38	44 - 144	32	31

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*103*		*80 - 126*
4-Bromofluorobenzene (Surr) - RA	*97*		*80 - 120*
Dibromofluoromethane (Surr) - RA	*101*		*80 - 120*
Toluene-d8 (Surr) - RA	*101*		*80 - 120*
Trifluorotoluene (Surr) - RA	*99*		*80 - 120*

Lab Chronicle

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW13-030220
Lab Sample ID: 580-93265-1
Date Collected: 03/02/20 09:10
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 18:41	CJB	TAL SEA

Client Sample ID: MW14-030220
Lab Sample ID: 580-93265-2
Date Collected: 03/02/20 09:50
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 19:08	CJB	TAL SEA

Client Sample ID: MW26-030220
Lab Sample ID: 580-93265-3
Date Collected: 03/02/20 10:25
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 19:35	CJB	TAL SEA

Client Sample ID: MW3-030220
Lab Sample ID: 580-93265-4
Date Collected: 03/02/20 11:00
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 20:02	CJB	TAL SEA

Client Sample ID: MW22-030220
Lab Sample ID: 580-93265-5
Date Collected: 03/02/20 12:45
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 20:29	CJB	TAL SEA

Client Sample ID: MW23-030220
Lab Sample ID: 580-93265-6
Date Collected: 03/02/20 14:55
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 20:57	CJB	TAL SEA

Client Sample ID: MW17-030220
Lab Sample ID: 580-93265-7
Date Collected: 03/02/20 15:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 21:24	CJB	TAL SEA

Lab Chronicle

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW25-030220
Lab Sample ID: 580-93265-8
Date Collected: 03/03/20 08:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 21:51	CJB	TAL SEA

Client Sample ID: MW8-030220
Lab Sample ID: 580-93265-9
Date Collected: 03/03/20 09:10
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 22:18	CJB	TAL SEA

Client Sample ID: MW9-030220
Lab Sample ID: 580-93265-10
Date Collected: 03/03/20 09:50
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 22:45	CJB	TAL SEA

Client Sample ID: MW19-030220
Lab Sample ID: 580-93265-11
Date Collected: 03/03/20 10:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 23:13	CJB	TAL SEA

Client Sample ID: MW-10-030320
Lab Sample ID: 580-93265-12
Date Collected: 03/03/20 13:00
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 06:55	CJB	TAL SEA
Total/NA	Analysis	8260C	RA	1	324973	03/17/20 12:57	CJB	TAL SEA

Client Sample ID: MW-10-030320-Duplicate
Lab Sample ID: 580-93265-13
Date Collected: 03/03/20 13:00
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 08:17	CJB	TAL SEA

Client Sample ID: MW20-030320
Lab Sample ID: 580-93265-14
Date Collected: 03/03/20 13:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 08:44	CJB	TAL SEA
Total/NA	Analysis	8260C	DL	50	324766	03/13/20 04:35	CJB	TAL SEA

Lab Chronicle

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW4-030320
Lab Sample ID: 580-93265-15
Date Collected: 03/03/20 14:20
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 09:11	CJB	TAL SEA

Client Sample ID: MW29-030320
Lab Sample ID: 580-93265-16
Date Collected: 03/03/20 15:00
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 09:38	CJB	TAL SEA

Client Sample ID: MW6-030420
Lab Sample ID: 580-93265-17
Date Collected: 03/04/20 08:45
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 10:05	CJB	TAL SEA

Client Sample ID: MW30-030420
Lab Sample ID: 580-93265-18
Date Collected: 03/04/20 09:25
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 10:32	CJB	TAL SEA

Client Sample ID: MW31-030420
Lab Sample ID: 580-93265-19
Date Collected: 03/04/20 10:00
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 10:59	CJB	TAL SEA

Client Sample ID: MW5-030420
Lab Sample ID: 580-93265-20
Date Collected: 03/04/20 10:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 11:27	CJB	TAL SEA

Client Sample ID: MW28-030420
Lab Sample ID: 580-93265-21
Date Collected: 03/04/20 14:00
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324681	03/12/20 11:54	CJB	TAL SEA

Lab Chronicle

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW18-030420
Lab Sample ID: 580-93265-22
Date Collected: 03/04/20 14:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324644	03/11/20 22:48	T1W	TAL SEA
Total/NA	Analysis	8260C	DL	10	324766	03/13/20 05:02	CJB	TAL SEA
Total/NA	Analysis	8260C	RA	1	324766	03/13/20 05:56	CJB	TAL SEA

Client Sample ID: MW103-030420
Lab Sample ID: 580-93265-23
Date Collected: 03/04/20 16:05
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324644	03/11/20 23:16	T1W	TAL SEA
Total/NA	Analysis	8260C	RA	1	324766	03/13/20 04:08	CJB	TAL SEA
Total/NA	Analysis	8260C	RA2	1	324973	03/17/20 14:19	CJB	TAL SEA

Client Sample ID: MW102-030420
Lab Sample ID: 580-93265-24
Date Collected: 03/04/20 16:45
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 18:33	CJ	TAL SEA

Client Sample ID: MW101-030420
Lab Sample ID: 580-93265-25
Date Collected: 03/04/20 17:15
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 19:01	CJ	TAL SEA

Client Sample ID: MW100-030420
Lab Sample ID: 580-93265-26
Date Collected: 03/04/20 17:45
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 19:28	CJ	TAL SEA

Client Sample ID: MW11-030520
Lab Sample ID: 580-93265-27
Date Collected: 03/05/20 08:20
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 19:55	CJ	TAL SEA

Lab Chronicle

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW11-030520-Duplicate
Lab Sample ID: 580-93265-28
Date Collected: 03/05/20 08:20
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 21:17	CJ	TAL SEA

Client Sample ID: MW24-030520
Lab Sample ID: 580-93265-29
Date Collected: 03/05/20 09:05
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 21:45	CJ	TAL SEA

Client Sample ID: MW27-030520
Lab Sample ID: 580-93265-30
Date Collected: 03/05/20 09:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 22:12	CJ	TAL SEA

Client Sample ID: MW15-030520
Lab Sample ID: 580-93265-31
Date Collected: 03/05/20 10:05
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 22:39	CJ	TAL SEA
Total/NA	Analysis	8260C	DL	100	324973	03/17/20 14:47	CJB	TAL SEA

Client Sample ID: MW16-030520
Lab Sample ID: 580-93265-32
Date Collected: 03/05/20 13:00
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 23:07	CJ	TAL SEA

Client Sample ID: MW7-030520
Lab Sample ID: 580-93265-33
Date Collected: 03/05/20 13:35
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324877	03/14/20 23:34	CJ	TAL SEA

Client Sample ID: Trip Blank
Lab Sample ID: 580-93265-34
Date Collected: 03/02/20 00:01
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324577	03/09/20 15:31	CJB	TAL SEA

Lab Chronicle

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93265-1

Laboratory References:

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

Accreditation/Certification Summary

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory: Eurofins TestAmerica, Seattle

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	WA100007	11-06-20

Sample Summary

Client: USSE2 O&M Services, LLC
Job ID: 580-93265-1
Project/Site: Dept of Energy- NETL - Albany, OR

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-93265-1	MW13-030220	Water	03/02/20 09:10	03/06/20 11:40	
580-93265-2	MW14-030220	Water	03/02/20 09:50	03/06/20 11:40	
580-93265-3	MW26-030220	Water	03/02/20 10:25	03/06/20 11:40	
580-93265-4	MW3-030220	Water	03/02/20 11:00	03/06/20 11:40	
580-93265-5	MW22-030220	Water	03/02/20 12:45	03/06/20 11:40	
580-93265-6	MW23-030220	Water	03/02/20 14:55	03/06/20 11:40	
580-93265-7	MW17-030220	Water	03/02/20 15:35	03/06/20 11:40	
580-93265-8	MW25-030220	Water	03/03/20 08:35	03/06/20 11:40	
580-93265-9	MW8-030220	Water	03/03/20 09:10	03/06/20 11:40	
580-93265-10	MW9-030220	Water	03/03/20 09:50	03/06/20 11:40	
580-93265-11	MW19-030220	Water	03/03/20 10:35	03/06/20 11:40	
580-93265-12	MW-10-030320	Water	03/03/20 13:00	03/06/20 11:40	
580-93265-13	MW-10-030320-Duplicate	Water	03/03/20 13:00	03/06/20 11:40	
580-93265-14	MW20-030320	Water	03/03/20 13:35	03/06/20 11:40	
580-93265-15	MW4-030320	Water	03/03/20 14:20	03/06/20 11:40	
580-93265-16	MW29-030320	Water	03/03/20 15:00	03/06/20 11:40	
580-93265-17	MW6-030420	Water	03/04/20 08:45	03/06/20 11:40	
580-93265-18	MW30-030420	Water	03/04/20 09:25	03/06/20 11:40	
580-93265-19	MW31-030420	Water	03/04/20 10:00	03/06/20 11:40	
580-93265-20	MW5-030420	Water	03/04/20 10:35	03/06/20 11:40	
580-93265-21	MW28-030420	Water	03/04/20 14:00	03/06/20 11:40	
580-93265-22	MW18-030420	Water	03/04/20 14:35	03/06/20 11:40	
580-93265-23	MW103-030420	Water	03/04/20 16:05	03/06/20 11:40	
580-93265-24	MW102-030420	Water	03/04/20 16:45	03/06/20 11:40	
580-93265-25	MW101-030420	Water	03/04/20 17:15	03/06/20 11:40	
580-93265-26	MW100-030420	Water	03/04/20 17:45	03/06/20 11:40	
580-93265-27	MW11-030520	Water	03/05/20 08:20	03/06/20 11:40	
580-93265-28	MW11-030520-Duplicate	Water	03/05/20 08:20	03/06/20 11:40	
580-93265-29	MW24-030520	Water	03/05/20 09:05	03/06/20 11:40	
580-93265-30	MW27-030520	Water	03/05/20 09:35	03/06/20 11:40	
580-93265-31	MW15-030520	Water	03/05/20 10:05	03/06/20 11:40	
580-93265-32	MW16-030520	Water	03/05/20 13:00	03/06/20 11:40	
580-93265-33	MW7-030520	Water	03/05/20 13:35	03/06/20 11:40	
580-93265-34	Trip Blank	Water	03/02/20 00:01	03/06/20 11:40	

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JED SMITH / DAVE HRSHA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.1
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 1 of 4
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:			
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
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:

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)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW13-030220	03/02/20	0910	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW14-030220	03/02/20	0950	G	Water	N	N	3	3	
MW26-030220	03/02/20	1025	G	Water	N	N	3	3	
MW3-030220	03/02/20	1100	G	Water	N	N	3	3	
MW22-030220	03/02/20	1245	G	Water	N	N	3	3	
MW23-030220	03/02/20	1455	G	Water	N	N	3	3	
MW17-030220	03/02/20	1535	G	Water	N	N	3	3	
MW25-030320	03/03/20	0835	G	Water	N	N	3		
MW8-030320	03/03/20	0910	G	Water	N	N	3		
MW9-030320	03/03/20	0950	G	Water	N	N	3		
MW19-030320	03/03/20	1035	G	Water	N	N	3		

580-93265 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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Dave Hrsha	03/06/20 1140	AMENTUM		3/6/20 1140	TRPOR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2-8

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JED SMITH / DAVE HREHA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.2
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 2 of 4
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:			
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
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)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW10-030320	03/03/20	1300	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW10-030320-DUPLICATE	03/03/20	1300	G	Water	N	N	3	3	
MW10-030320-MS	03/03/20	1300	G	Water	N	Y	3	3	
MW10-030320-MSD	03/03/20	1300	G	Water	N	Y	3	3	
MW20-030320	03/03/20	1335	G	Water	N	N	3	3	
MW4-030320	03/03/20	1420	G	Water	N	N	3	3	
MW29-030320	03/03/20	1500	G	Water	N	N	3	3	
MW6-030420	03/04/20	0845	G	Water	N	N	3	3	
MW30-030420	03/04/20	0925	G	Water	N	N	3	3	
MW31-030420	03/04/20	1000	G	Water	N	N	3	3	
MW5-030420	03/04/20	1035	G	Water	N	N	3	3	

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Dave Hreha	Date/Time: 03/06/20 1140	Company: AMENTUM	Received by:	Date/Time: 3/6/20 1140	Company: DRR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JED SMITH/DAVE HREHA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.3
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 3 of 4
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:			
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
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)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW28-030420	03/04/20	1400	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW18-030420	03/04/20	1435	G	Water	N	N	3	3	
MW103-030420	03/04/20	1605	G	Water	N	N	3	3	
MW102-030420	03/04/20	1645	G	Water	N	N	3	3	
MW101-030420	03/04/20	1715	G	Water	N	N	3	3	
MW100-030420	03/04/20	1745	G	Water	N	N	3	3	
MW11-030520	03/05/20	0820	G	Water	N	N	3	3	
MW11-030520-DUPLICATE	03/05/20	0820	G	Water	N	N	3	3	
MW11-030520-MS	03/05/20	0820	G	Water	N	Y	3	3	
MW11-030520-MSD	03/05/20	0820	G	Water	N	Y	3	3	
MW24-030520-	03/05/20	0905	G	Water	N	N	3	3	

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Dave Hreha	Date/Time: 03/06/20 1146	Company AMENTUM	Received by:	Date/Time: 3/6/20 1140	Company TABOR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JED SMITH / DAVE HREHA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.4
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 4 of 4
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:			
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
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)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW27-030520	03/05/20	0935	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW15-030520	03/05/20	1005	G	Water	N	N	3	3	
MW16-030520	03/05/20	1300	G	Water	N	N	3	3	
MW7-030520	03/05/20	1335	G	Water	N	N	3	3	
TRIP BLANK	03/02-05/20	—	G	Water	N	N	3	3	
				Water					
				Water					
				Water					
				Water					
				Water					

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: David Hreha	Date/Time: 03/06/20 1140	Company: AMENTUM	Received by:	Date/Time: 3/6/20 1140	Company: TRPOR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information
Client Contact: Jedediah Smith
Company: USSE2 O&M Services, LLC
Address: 3592 Collins Ferry Road Suite 130
City: Morgantown
State, Zip: WV, 26505
Phone: 304-440-4500(Tel)
Email: jedediah.smith@netl.doe.gov
Project Name: Dept of Energy- NETL - Albany, OR
Site: ALBANY

Sampler: JED SMITH / DAVE HRSHA
Phone: 304-532-2279
Due Date Requested:
TAT Requested (days):
PO #: SOS30042
WO #:
Project #: 58008376
SSOW#:

Lab PM: Colussy, Jill L
E-Mail: jill.colussy@testamericainc.com
Carrier Tracking No(s):

COC No: 580-37451-9879.1
Page: Page 1 of 4
Job #:

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:

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)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW13-030220	03/02/20	0910	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW14-030220	03/02/20	0950	G	Water	N	N	3	3	
MW26-030220	03/02/20	1025	G	Water	N	N	3	3	
MW3-030220	03/02/20	1100	G	Water	N	N	3	3	
MW22-030220	03/02/20	1245	G	Water	N	N	3	3	
MW23-030220	03/02/20	1455	G	Water	N	N	3	3	
MW17-030220	03/02/20	1535	G	Water	N	N	3	3	
MW25-030320	03/03/20	0835	G	Water	N	N	3	3	
MW8-030320	03/03/20	0910	G	Water	N	N	3	3	
MW9-030320	03/03/20	0950	G	Water	N	N	3	3	
MW19-030320	03/03/20	1035	G	Water	N	N	3	3	

580-93265 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:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Dave Hrsha	03/06/20 1140	AMENTUM		3/6/20 1140	TAER
Relinquished by:	3/6/20 1700	TAER	Received by:	3.7.20 0945	TAES2
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.8 7=2.1

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JED SMITH / DAVE HREHA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.2
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 2 of 4
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:		Analysis Requested	
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				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)
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			Other:
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
Site: ALBANY	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW10-030320	03/03/20	1300	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW10-030320-DUPLICATE	03/03/20	1300	G	Water	N	N	3	3	
MW10-030320-MS	03/03/20	1300	G	Water	N	Y	3	3	
MW10-030320-MSD	03/03/20	1300	G	Water	N	Y	3	3	
MW20-030320	03/03/20	1335	G	Water	N	N	3	3	
MW4-030320	03/03/20	1420	G	Water	N	N	3	3	
MW29-030320	03/03/20	1500	G	Water	N	N	3	3	
MW6-030420	03/04/20	0845	G	Water	N	N	3	3	
MW30-030420	03/04/20	0925	G	Water	N	N	3	3	
MW31-030420	03/04/20	1000	G	Water	N	N	3	3	
MW5-030420	03/04/20	1035	G	Water	N	N	3	3	

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	David Hreha	03/06/20 1140	AMENTUM		3/6/20 1140	DABR
2		3/6/20 1700	DABR		3-7-20 0945	TAES2
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 7=2.1

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

3/25/2020 (Rev. 1)

Client Information	Sampler: JED SMITH/DAVE HRENA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.3
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 3 of 4
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:		Analysis Requested	
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
Site: ALBANY	SSOW#:			

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)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW28-030420	03/04/20	1400	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW18-030420	03/04/20	1435	G	Water	N	N	3	3	
MW103-030420	03/04/20	1605	G	Water	N	N	3	3	
MW102-030420	03/04/20	1645	G	Water	N	N	3	3	
MW101-030420	03/04/20	1715	G	Water	N	N	3	3	
MW100-030420	03/04/20	1745	G	Water	N	N	3	3	
MW11-030520	03/05/20	0820	G	Water	N	N	3	3	
MW11-030520-DUPLICATE	03/05/20	0820	G	Water	N	N	3	3	
MW11-030520-MS	03/05/20	0820	G	Water	N	Y	3	3	
MW11-030520-MSD	03/05/20	0820	G	Water	N	Y	3	3	
MW24-030520-	03/05/20	0905	G	Water	N	N	3	3	

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Dave Hrena	Date/Time: 03/06/20 1140	Company: AMENTUM	Received by:	Date/Time: 3/6/20 1140	Company: TAEOR		
Relinquished by:	Date/Time: 3/6/20 1700	Company: TAEOR	Received by: Kirsty Hibbs	Date/Time: 3.7.20 0945	Company: TAEOR		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 7=2.1

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JED SMITH / DAVE HEEHA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.4
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 4 of 4
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:			
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
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)	8260C - Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW27-030520	03/05/20	0935	G	Water	N	N	3	3	SAMPLES HELD ON ICE!
MW15-030520	03/05/20	1005	G	Water	N	N	3	3	
MW16-030520	03/05/20	1300	G	Water	N	N	3	3	
MW7-030520	03/05/20	1335	G	Water	N	N	3	3	
TRIP BLANK	03/02-05/20	—	G	Water	N	N	3	3	
				Water					
				Water					
				Water					
				Water					
				Water					

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: DAVID HEEHA	Date/Time: 03/06/20 1140	Company: AMENTUM	Received by:	Date/Time: 3/6/20 1140	Company: CHEM
Relinquished by:	Date/Time: 3/6/20 1700	Company: CHEM	Received by:	Date/Time: 3-7-20 0945	Company: TAS e2
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: 7=2.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: USSE2 O&M Services, LLC

Job Number: 580-93265-1

Login Number: 93265
List Number: 1
Creator: O'Connell, Jason I

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-93263-1
Client Project/Site: Dept of Energy- NETL - Albany, OR

For:
USSE2 O&M Services, LLC
3592 Collins Ferry Road
Suite 130
Morgantown, West Virginia 26505

Attn: Jedediah Smith

Authorized for release by:
3/31/2020 1:04:41 PM

Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

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

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

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Job ID: 580-93263-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-93263-1

Receipt
The sample was received on 3/6/2020 11:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

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

GC/MS Semi VOA
The method blank, laboratory control standard, and the laboratory control duplicate for batch 580-32469 had surrogates and spike compounds recover below the control limits. The associated sample was re-extracted outside of the holding time. Both sets of data are reported.

The method blank, laboratory control standard, laboratory control duplicate and sample TCLP - Purge Water (580-93263-1) for re-extract batch 580-324694 had surrogates recover below the control limits. Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria. This batch had an allowable number of surrogates outside of the control limits. All data was reported.

The continuing calibration verification (CCV) associated with batch 580-325155 recovered above the upper control limit for Hexachlorobutadiene, Nitrobenzene, Hexachloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

Definitions/Glossary

Client: USSE2 O&M Services, LLC
Job ID: 580-93263-1
Project/Site: Dept of Energy- NETL - Albany, OR

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Client: USSE2 O&M Services, LLC
Job ID: 580-93263-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: TCLP - Purge Water
Lab Sample ID: 580-93263-1
Date Collected: 03/06/20 08:30
Matrix: Water
Date Received: 03/06/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		400	78	ug/L			03/14/20 06:59	100
1,2-Dichloroethane	ND		200	53	ug/L			03/14/20 06:59	100
2-Butanone	ND		2000	470	ug/L			03/14/20 06:59	100
Benzene	ND		300	53	ug/L			03/14/20 06:59	100
Carbon tetrachloride	ND		300	30	ug/L			03/14/20 06:59	100
Chlorobenzene	ND		200	44	ug/L			03/14/20 06:59	100
Chloroform	ND		500	50	ug/L			03/14/20 06:59	100
Tetrachloroethene	ND		300	41	ug/L			03/14/20 06:59	100
Trichloroethene	ND		300	85	ug/L			03/14/20 06:59	100
Vinyl chloride	ND		100	22	ug/L			03/14/20 06:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/14/20 06:59*	*100*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/14/20 06:59*	*100*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/14/20 06:59*	*100*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/20 06:59*	*100*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*03/14/20 06:59*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	* *1	2.0	0.20	ug/L		03/17/20 09:23	03/19/20 14:45	1
1,4-Dichlorobenzene	ND	H	4.0	0.40	ug/L		03/28/20 15:18	03/29/20 17:25	1
2-Methylphenol	ND		3.0	0.25	ug/L		03/17/20 09:23	03/19/20 14:45	1
2-Methylphenol	ND	H	6.0	0.50	ug/L		03/28/20 15:18	03/29/20 17:25	1
3 & 4 Methylphenol	ND	*	4.0	0.15	ug/L		03/17/20 09:23	03/19/20 14:45	1
3 & 4 Methylphenol	ND	H	8.0	0.30	ug/L		03/28/20 15:18	03/29/20 17:25	1
Hexachloroethane	ND	*1 *	5.0	0.25	ug/L		03/17/20 09:23	03/19/20 14:45	1
Hexachloroethane	ND	H	10	0.50	ug/L		03/28/20 15:18	03/29/20 17:25	1
Nitrobenzene	ND		5.0	0.20	ug/L		03/17/20 09:23	03/19/20 14:45	1
Nitrobenzene	ND	H	10	0.40	ug/L		03/28/20 15:18	03/29/20 17:25	1
Hexachlorobutadiene	ND	*1 *	5.0	0.30	ug/L		03/17/20 09:23	03/19/20 14:45	1
Hexachlorobutadiene	ND	H	10	0.60	ug/L		03/28/20 15:18	03/29/20 17:25	1
2,4,6-Trichlorophenol	ND	*	3.0	0.50	ug/L		03/17/20 09:23	03/19/20 14:45	1
2,4,6-Trichlorophenol	ND	H	6.0	1.0	ug/L		03/28/20 15:18	03/29/20 17:25	1
2,4,5-Trichlorophenol	ND	*	2.0	0.50	ug/L		03/17/20 09:23	03/19/20 14:45	1
2,4,5-Trichlorophenol	ND	H	4.0	1.0	ug/L		03/28/20 15:18	03/29/20 17:25	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		03/17/20 09:23	03/19/20 14:45	1
2,4-Dinitrotoluene	ND	H	10	1.0	ug/L		03/28/20 15:18	03/29/20 17:25	1
Hexachlorobenzene	ND		3.0	0.20	ug/L		03/17/20 09:23	03/19/20 14:45	1
Hexachlorobenzene	ND	H	6.0	0.40	ug/L		03/28/20 15:18	03/29/20 17:25	1
Pentachlorophenol	ND	F1	50	2.6	ug/L		03/17/20 09:23	03/19/20 14:45	1
Pentachlorophenol	ND	H F1	100	5.1	ug/L		03/28/20 15:18	03/29/20 17:25	1
Pyridine	ND	*1 *	75	3.0	ug/L		03/17/20 09:23	03/19/20 14:45	1
Pyridine	ND	H	150	6.0	ug/L		03/28/20 15:18	03/29/20 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*20 - 147*	*03/17/20 09:23*	*03/19/20 14:45*	*1*
2-Fluorophenol (Surr)	*56*		*20 - 147*	*03/28/20 15:18*	*03/29/20 17:25*	*1*
Phenol-d5 (Surr)	*53*		*21 - 135*	*03/17/20 09:23*	*03/19/20 14:45*	*1*
Phenol-d5 (Surr)	*53*		*21 - 135*	*03/28/20 15:18*	*03/29/20 17:25*	*1*

Client: USSE2 O&M Services, LLC
Job ID: 580-93263-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: TCLP - Purge Water
Lab Sample ID: 580-93263-1
Date Collected: 03/06/20 08:30
Matrix: Water
Date Received: 03/06/20 11:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		28 - 131	03/17/20 09:23	03/19/20 14:45	1
2,4,6-Tribromophenol (Surr)	62		28 - 131	03/28/20 15:18	03/29/20 17:25	1
Nitrobenzene-d5 (Surr)	91		60 - 120	03/17/20 09:23	03/19/20 14:45	1
Nitrobenzene-d5 (Surr)	64		60 - 120	03/28/20 15:18	03/29/20 17:25	1
2-Fluorobiphenyl	57	X	63 - 120	03/17/20 09:23	03/19/20 14:45	1
2-Fluorobiphenyl	57	X	63 - 120	03/28/20 15:18	03/29/20 17:25	1
Terphenyl-d14 (Surr)	95		66 - 120	03/17/20 09:23	03/19/20 14:45	1
Terphenyl-d14 (Surr)	95		66 - 120	03/28/20 15:18	03/29/20 17:25	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		03/10/20 08:03	03/10/20 14:54	1
Barium	**0.030**		0.020	0.0039	mg/L		03/10/20 08:03	03/10/20 14:54	1
Cadmium	ND		0.020	0.00050	mg/L		03/10/20 08:03	03/10/20 14:54	1
Chromium	ND		0.025	0.0033	mg/L		03/10/20 08:03	03/10/20 14:54	1
Lead	ND		0.030	0.0027	mg/L		03/10/20 08:03	03/10/20 14:54	1
Selenium	ND		0.10	0.0087	mg/L		03/10/20 08:03	03/10/20 14:54	1
Silver	ND		0.050	0.0085	mg/L		03/10/20 08:03	03/10/20 14:54	1
Copper	ND		0.060	0.014	mg/L		03/10/20 08:03	03/10/20 14:54	1
Molybdenum	ND		0.040	0.0047	mg/L		03/10/20 08:03	03/10/20 14:54	1
Nickel	ND		0.020	0.0023	mg/L		03/10/20 08:03	03/10/20 14:54	1
Zinc	ND		0.040	0.0093	mg/L		03/10/20 08:03	03/10/20 14:54	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		03/10/20 08:07	03/10/20 12:58	1

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

Lab Sample ID: MB 580-324451/1-A
Matrix: Water
Analysis Batch: 324860

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		400	78	ug/L			03/14/20 04:14	100
1,2-Dichloroethane	ND		200	53	ug/L			03/14/20 04:14	100
2-Butanone	ND		2000	470	ug/L			03/14/20 04:14	100
Benzene	ND		300	53	ug/L			03/14/20 04:14	100
Carbon tetrachloride	ND		300	30	ug/L			03/14/20 04:14	100
Chlorobenzene	ND		200	44	ug/L			03/14/20 04:14	100
Chloroform	ND		500	50	ug/L			03/14/20 04:14	100
Tetrachloroethene	ND		300	41	ug/L			03/14/20 04:14	100
Trichloroethene	ND		300	85	ug/L			03/14/20 04:14	100
Vinyl chloride	ND		100	22	ug/L			03/14/20 04:14	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 126*		*03/14/20 04:14*	*100*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/14/20 04:14*	*100*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*03/14/20 04:14*	*100*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/14/20 04:14*	*100*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*03/14/20 04:14*	*100*

Lab Sample ID: LCS 580-324451/2-A
Matrix: Water
Analysis Batch: 324860

Client Sample ID: Lab Control Sample
Prep Type: TCLP

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			1000	1070		ug/L		107	70 - 129		
1,2-Dichloroethane			1000	985		ug/L		98	76 - 131		
2-Butanone			5000	5660		ug/L		113	65 - 127		
Benzene			1000	1050		ug/L		105	75 - 121		
Carbon tetrachloride			1000	1040		ug/L		104	72 - 129		
Chlorobenzene			1000	1080		ug/L		108	80 - 120		
Chloroform			1000	1040		ug/L		104	73 - 127		
Tetrachloroethene			1000	1060		ug/L		106	76 - 120		
Trichloroethene			1000	1030		ug/L		103	70 - 120		
Vinyl chloride			1000	1010		ug/L		101	65 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-324451/3-A
Matrix: Water
Analysis Batch: 324860

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
1,1-Dichloroethene			1000	1010		ug/L		101	70 - 129	6	27
1,2-Dichloroethane			1000	968		ug/L		97	76 - 131	2	18

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

Lab Sample ID: LCSD 580-324451/3-A
Matrix: Water
Analysis Batch: 324860

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	5540		ug/L		111	65 - 127	2	29
Benzene			1000	1020		ug/L		102	75 - 121	2	14
Carbon tetrachloride			1000	995		ug/L		99	72 - 129	4	19
Chlorobenzene			1000	1050		ug/L		105	80 - 120	3	15
Chloroform			1000	1010		ug/L		101	73 - 127	3	22
Tetrachloroethene			1000	1020		ug/L		102	76 - 120	4	20
Trichloroethene			1000	1000		ug/L		100	70 - 120	3	21
Vinyl chloride			1000	969		ug/L		97	65 - 130	4	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 580-324694/1-C
Matrix: Water
Analysis Batch: 325155

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 324978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0	0.20	ug/L		03/17/20 09:23	03/19/20 13:36	1
2-Methylphenol	ND		3.0	0.25	ug/L		03/17/20 09:23	03/19/20 13:36	1
3 & 4 Methylphenol	ND		4.0	0.15	ug/L		03/17/20 09:23	03/19/20 13:36	1
Hexachloroethane	ND		5.0	0.25	ug/L		03/17/20 09:23	03/19/20 13:36	1
Nitrobenzene	ND		5.0	0.20	ug/L		03/17/20 09:23	03/19/20 13:36	1
Hexachlorobutadiene	ND		5.0	0.30	ug/L		03/17/20 09:23	03/19/20 13:36	1
2,4,6-Trichlorophenol	ND		3.0	0.50	ug/L		03/17/20 09:23	03/19/20 13:36	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		03/17/20 09:23	03/19/20 13:36	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		03/17/20 09:23	03/19/20 13:36	1
Hexachlorobenzene	ND		3.0	0.20	ug/L		03/17/20 09:23	03/19/20 13:36	1
Pentachlorophenol	ND		50	2.6	ug/L		03/17/20 09:23	03/19/20 13:36	1
Pyridine	ND		75	3.0	ug/L		03/17/20 09:23	03/19/20 13:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*16*	*X*	*20 - 147*	*03/17/20 09:23*	*03/19/20 13:36*	*1*
Phenol-d5 (Surr)	*23*		*21 - 135*	*03/17/20 09:23*	*03/19/20 13:36*	*1*
2,4,6-Tribromophenol (Surr)	*34*		*28 - 131*	*03/17/20 09:23*	*03/19/20 13:36*	*1*
Nitrobenzene-d5 (Surr)	*36*	*X*	*60 - 120*	*03/17/20 09:23*	*03/19/20 13:36*	*1*
2-Fluorobiphenyl	*33*	*X*	*63 - 120*	*03/17/20 09:23*	*03/19/20 13:36*	*1*
Terphenyl-d14 (Surr)	*50*	*X*	*66 - 120*	*03/17/20 09:23*	*03/19/20 13:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-324694/2-C
Matrix: Water
Analysis Batch: 325155

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 324978

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			10.0	2.23	*	ug/L		22	46 - 120		
2-Methylphenol			10.0	5.46		ug/L		55	49 - 120		
3 & 4 Methylphenol			10.0	4.81	*	ug/L		48	50 - 124		
Hexachloroethane			10.0	1.57	J *	ug/L		16	38 - 120		
Nitrobenzene			10.0	6.93		ug/L		69	60 - 130		
Hexachlorobutadiene			10.0	1.74	J *	ug/L		17	31 - 120		
2,4,6-Trichlorophenol			10.0	5.64	*	ug/L		56	64 - 121		
2,4,5-Trichlorophenol			10.0	5.78	*	ug/L		58	67 - 120		
2,4-Dinitrotoluene			10.0	7.19		ug/L		72	63 - 133		
Hexachlorobenzene			10.0	8.12		ug/L		81	60 - 120		
Pentachlorophenol			20.0	17.0	J	ug/L		85	39 - 147		
Pyridine			20.0	ND	*	ug/L		7	20 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*35*		*20 - 147*
Phenol-d5 (Surr)	*38*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*87*		*28 - 131*
Nitrobenzene-d5 (Surr)	*70*		*60 - 120*
2-Fluorobiphenyl	*46*	*X*	*63 - 120*
Terphenyl-d14 (Surr)	*95*		*66 - 120*

Lab Sample ID: LCSD 580-324694/3-C
Matrix: Water
Analysis Batch: 325155

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 324978

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			10.0	4.17	* *1	ug/L		42	46 - 120	61	30
2-Methylphenol			10.0	5.72		ug/L		57	49 - 120	5	35
3 & 4 Methylphenol			10.0	5.98		ug/L		60	50 - 124	22	35
Hexachloroethane			10.0	3.93	J *1	ug/L		39	38 - 120	86	35
Nitrobenzene			10.0	7.47		ug/L		75	60 - 130	7	31
Hexachlorobutadiene			10.0	3.79	J *1	ug/L		38	31 - 120	74	28
2,4,6-Trichlorophenol			10.0	5.88	*	ug/L		59	64 - 121	4	26
2,4,5-Trichlorophenol			10.0	7.34		ug/L		73	67 - 120	24	26
2,4-Dinitrotoluene			10.0	7.17		ug/L		72	63 - 133	0	23
Hexachlorobenzene			10.0	7.25		ug/L		72	60 - 120	11	23
Pentachlorophenol			20.0	16.0	J	ug/L		80	39 - 147	6	23
Pyridine			20.0	4.90	J *1	ug/L		24	20 - 120	112	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*38*		*20 - 147*
Phenol-d5 (Surr)	*52*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*74*		*28 - 131*
Nitrobenzene-d5 (Surr)	*64*		*60 - 120*
2-Fluorobiphenyl	*54*	*X*	*63 - 120*
Terphenyl-d14 (Surr)	*86*		*66 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-93263-1 MS
Matrix: Water
Analysis Batch: 325155

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND	* *1	10.0	7.37		ug/L		74	46 - 120
2-Methylphenol	ND		10.0	7.09		ug/L		71	49 - 120
3 & 4 Methylphenol	ND	*	10.0	6.31		ug/L		63	50 - 124
Hexachloroethane	ND	*1 *	10.0	8.57		ug/L		86	38 - 120
Nitrobenzene	ND		10.0	8.69		ug/L		87	60 - 130
Hexachlorobutadiene	ND	*1 *	10.0	9.78		ug/L		98	31 - 120
2,4,6-Trichlorophenol	ND	*	10.0	7.62		ug/L		76	64 - 121
2,4,5-Trichlorophenol	ND	*	10.0	7.50		ug/L		75	67 - 120
2,4-Dinitrotoluene	ND		10.0	8.23		ug/L		82	63 - 133
Hexachlorobenzene	ND		10.0	8.65		ug/L		86	60 - 120
Pentachlorophenol	ND	F1	20.0	6.66	J F1	ug/L		33	39 - 147
Pyridine	ND	*1 *	20.0	4.33	J	ug/L		22	20 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*45*		*20 - 147*
Phenol-d5 (Surr)	*58*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*81*		*28 - 131*
Nitrobenzene-d5 (Surr)	*87*		*60 - 120*
2-Fluorobiphenyl	*76*		*63 - 120*
Terphenyl-d14 (Surr)	*89*		*66 - 120*

Lab Sample ID: MB 580-324694/1-D
Matrix: Water
Analysis Batch: 325775

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 325754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		4.0	0.40	ug/L		03/28/20 15:18	03/29/20 15:07	1
2-Methylphenol	ND		6.0	0.50	ug/L		03/28/20 15:18	03/29/20 15:07	1
3 & 4 Methylphenol	ND		8.0	0.30	ug/L		03/28/20 15:18	03/29/20 15:07	1
Hexachloroethane	ND		10	0.50	ug/L		03/28/20 15:18	03/29/20 15:07	1
Nitrobenzene	ND		10	0.40	ug/L		03/28/20 15:18	03/29/20 15:07	1
Hexachlorobutadiene	ND		10	0.60	ug/L		03/28/20 15:18	03/29/20 15:07	1
2,4,6-Trichlorophenol	ND		6.0	1.0	ug/L		03/28/20 15:18	03/29/20 15:07	1
2,4,5-Trichlorophenol	ND		4.0	1.0	ug/L		03/28/20 15:18	03/29/20 15:07	1
2,4-Dinitrotoluene	ND		10	1.0	ug/L		03/28/20 15:18	03/29/20 15:07	1
Hexachlorobenzene	ND		6.0	0.40	ug/L		03/28/20 15:18	03/29/20 15:07	1
Pentachlorophenol	ND		100	5.1	ug/L		03/28/20 15:18	03/29/20 15:07	1
Pyridine	ND		150	6.0	ug/L		03/28/20 15:18	03/29/20 15:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*71*		*20 - 147*	*03/28/20 15:18*	*03/29/20 15:07*	*1*
Phenol-d5 (Surr)	*62*		*21 - 135*	*03/28/20 15:18*	*03/29/20 15:07*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*28 - 131*	*03/28/20 15:18*	*03/29/20 15:07*	*1*
Nitrobenzene-d5 (Surr)	*69*		*60 - 120*	*03/28/20 15:18*	*03/29/20 15:07*	*1*
2-Fluorobiphenyl	*58*	*X*	*63 - 120*	*03/28/20 15:18*	*03/29/20 15:07*	*1*
Terphenyl-d14 (Surr)	*106*		*66 - 120*	*03/28/20 15:18*	*03/29/20 15:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-324694/2-D
Matrix: Water
Analysis Batch: 325775

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 325754

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			20.0	11.0		ug/L		55	46 - 120		
2-Methylphenol			20.0	11.1		ug/L		55	49 - 120		
3 & 4 Methylphenol			20.0	11.7		ug/L		59	50 - 124		
Hexachloroethane			20.0	10.1		ug/L		50	38 - 120		
Nitrobenzene			20.0	12.4		ug/L		62	60 - 130		
Hexachlorobutadiene			20.0	11.3		ug/L		56	31 - 120		
2,4,6-Trichlorophenol			20.0	13.9		ug/L		69	64 - 121		
2,4,5-Trichlorophenol			20.0	15.8		ug/L		79	67 - 120		
2,4-Dinitrotoluene			20.0	18.1		ug/L		91	63 - 133		
Hexachlorobenzene			20.0	16.0		ug/L		80	60 - 120		
Pentachlorophenol			40.0	37.6	J	ug/L		94	39 - 147		
Pyridine			40.0	19.4	J	ug/L		48	20 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*55*		*20 - 147*
Phenol-d5 (Surr)	*54*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*92*		*28 - 131*
Nitrobenzene-d5 (Surr)	*58*	*X*	*60 - 120*
2-Fluorobiphenyl	*54*	*X*	*63 - 120*
Terphenyl-d14 (Surr)	*88*		*66 - 120*

Lab Sample ID: LCSD 580-324694/3-D
Matrix: Water
Analysis Batch: 325775

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 325754

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			20.0	9.30		ug/L		46	46 - 120	17	30
2-Methylphenol			20.0	12.2		ug/L		61	49 - 120	9	35
3 & 4 Methylphenol			20.0	12.1		ug/L		60	50 - 124	3	35
Hexachloroethane			20.0	7.89	J	ug/L		39	38 - 120	24	35
Nitrobenzene			20.0	12.5		ug/L		63	60 - 130	1	31
Hexachlorobutadiene			20.0	9.53	J	ug/L		48	31 - 120	17	28
2,4,6-Trichlorophenol			20.0	14.0		ug/L		70	64 - 121	1	26
2,4,5-Trichlorophenol			20.0	14.3		ug/L		71	67 - 120	10	26
2,4-Dinitrotoluene			20.0	17.5		ug/L		88	63 - 133	3	23
Hexachlorobenzene			20.0	15.2		ug/L		76	60 - 120	5	23
Pentachlorophenol			40.0	33.5	J	ug/L		84	39 - 147	11	23
Pyridine			40.0	22.0	J	ug/L		55	20 - 120	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*60*		*20 - 147*
Phenol-d5 (Surr)	*56*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*84*		*28 - 131*
Nitrobenzene-d5 (Surr)	*65*		*60 - 120*
2-Fluorobiphenyl	*56*	*X*	*63 - 120*
Terphenyl-d14 (Surr)	*83*		*66 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-93263-1 MS
Matrix: Water
Analysis Batch: 325775

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 325754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND	H	20.0	11.3		ug/L		56	46 - 120
2-Methylphenol	ND	H	20.0	12.4		ug/L		62	49 - 120
3 & 4 Methylphenol	ND	H	20.0	13.2		ug/L		66	50 - 124
Hexachloroethane	ND	H	20.0	10.7		ug/L		53	38 - 120
Nitrobenzene	ND	H	20.0	13.0		ug/L		65	60 - 130
Hexachlorobutadiene	ND	H	20.0	13.6		ug/L		68	31 - 120
2,4,6-Trichlorophenol	ND	H	20.0	14.5		ug/L		73	64 - 121
2,4,5-Trichlorophenol	ND	H	20.0	15.5		ug/L		77	67 - 120
2,4-Dinitrotoluene	ND	H	20.0	17.4		ug/L		87	63 - 133
Hexachlorobenzene	ND	H	20.0	16.9		ug/L		85	60 - 120
Pentachlorophenol	ND	H F1	40.0	ND	F1	ug/L		0	39 - 147
Pyridine	ND	H	40.0	20.0	J	ug/L		50	20 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*61*		*20 - 147*
Phenol-d5 (Surr)	*60*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*83*		*28 - 131*
Nitrobenzene-d5 (Surr)	*70*		*60 - 120*
2-Fluorobiphenyl	*68*		*63 - 120*
Terphenyl-d14 (Surr)	*94*		*66 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-324450/1-B
Matrix: Water
Analysis Batch: 324607

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 324519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		03/10/20 08:03	03/10/20 14:45	1
Barium	ND		0.020	0.0039	mg/L		03/10/20 08:03	03/10/20 14:45	1
Cadmium	ND		0.020	0.00050	mg/L		03/10/20 08:03	03/10/20 14:45	1
Chromium	ND		0.025	0.0033	mg/L		03/10/20 08:03	03/10/20 14:45	1
Lead	ND		0.030	0.0027	mg/L		03/10/20 08:03	03/10/20 14:45	1
Selenium	ND		0.10	0.0087	mg/L		03/10/20 08:03	03/10/20 14:45	1
Silver	ND		0.050	0.0085	mg/L		03/10/20 08:03	03/10/20 14:45	1
Copper	ND		0.060	0.014	mg/L		03/10/20 08:03	03/10/20 14:45	1
Molybdenum	ND		0.040	0.0047	mg/L		03/10/20 08:03	03/10/20 14:45	1
Nickel	ND		0.020	0.0023	mg/L		03/10/20 08:03	03/10/20 14:45	1
Zinc	ND		0.040	0.0093	mg/L		03/10/20 08:03	03/10/20 14:45	1

Lab Sample ID: LCS 580-324450/2-B
Matrix: Water
Analysis Batch: 324607

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 324519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.974		mg/L		97	80 - 120
Barium	1.00	0.925		mg/L		93	80 - 120
Cadmium	1.00	1.01		mg/L		101	80 - 120
Chromium	1.00	0.970		mg/L		97	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-324450/2-B
Matrix: Water
Analysis Batch: 324607

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 324519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.997		mg/L		100	80 - 120
Selenium	1.00	1.00		mg/L		100	80 - 120
Silver	1.00	0.878		mg/L		88	80 - 120
Copper	1.00	0.950		mg/L		95	80 - 120
Molybdenum	1.00	0.961		mg/L		96	80 - 120
Nickel	1.00	1.00		mg/L		100	80 - 120
Zinc	1.00	0.930		mg/L		93	80 - 120

Lab Sample ID: LCSD 580-324450/3-B
Matrix: Water
Analysis Batch: 324607

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 324519

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	0.974		mg/L		97	80 - 120	0	20
Barium	1.00	0.917		mg/L		92	80 - 120	1	20
Cadmium	1.00	1.00		mg/L		100	80 - 120	1	20
Chromium	1.00	0.960		mg/L		96	80 - 120	1	20
Lead	1.00	0.991		mg/L		99	80 - 120	1	20
Selenium	1.00	1.01		mg/L		101	80 - 120	0	20
Silver	1.00	0.897		mg/L		90	80 - 120	2	20
Copper	1.00	0.947		mg/L		95	80 - 120	0	20
Molybdenum	1.00	0.954		mg/L		95	80 - 120	1	20
Nickel	1.00	0.991		mg/L		99	80 - 120	1	20
Zinc	1.00	0.951		mg/L		95	80 - 120	2	20

Lab Sample ID: 580-93263-1 MS
Matrix: Water
Analysis Batch: 324607

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	0.910		mg/L		91	75 - 125
Barium	0.030		1.00	0.938		mg/L		91	75 - 125
Cadmium	ND		1.00	0.923		mg/L		92	75 - 125
Chromium	ND		1.00	0.973		mg/L		97	75 - 125
Lead	ND		1.00	0.930		mg/L		93	75 - 125
Selenium	ND		1.00	0.926		mg/L		93	75 - 125
Silver	ND		1.00	0.878		mg/L		88	75 - 125
Copper	ND		1.00	0.950		mg/L		95	75 - 125
Molybdenum	ND		1.00	0.958		mg/L		96	75 - 125
Nickel	ND		1.00	0.929		mg/L		93	75 - 125
Zinc	ND		1.00	0.830		mg/L		83	75 - 125

Lab Sample ID: 580-93263-1 MSD
Matrix: Water
Analysis Batch: 324607

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	0.935		mg/L		93	75 - 125	3	20
Barium	0.030		1.00	0.967		mg/L		94	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-93263-1 MSD
Matrix: Water
Analysis Batch: 324607

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		1.00	0.949		mg/L		95	75 - 125	3	20
Chromium	ND		1.00	1.00		mg/L		100	75 - 125	3	20
Lead	ND		1.00	0.956		mg/L		96	75 - 125	3	20
Selenium	ND		1.00	0.952		mg/L		95	75 - 125	3	20
Silver	ND		1.00	0.993		mg/L		99	75 - 125	12	20
Copper	ND		1.00	0.977		mg/L		98	75 - 125	3	20
Molybdenum	ND		1.00	0.990		mg/L		99	75 - 125	3	20
Nickel	ND		1.00	0.955		mg/L		96	75 - 125	3	20
Zinc	ND		1.00	0.939		mg/L		94	75 - 125	12	20

Lab Sample ID: 580-93263-1 DU
Matrix: Water
Analysis Batch: 324607

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324519

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND		ND		mg/L		NC	20
Barium	0.030		0.0294		mg/L		3	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Molybdenum	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-324520/10-A
Matrix: Water
Analysis Batch: 324568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		03/10/20 08:07	03/10/20 12:49	1

Lab Sample ID: MB 580-324520/9-A
Matrix: Water
Analysis Batch: 324568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		03/10/20 08:07	03/10/20 12:56	1

Lab Sample ID: LCS 580-324520/11-A
Matrix: Water
Analysis Batch: 324568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0200	0.0199		mg/L		99	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-324520/12-A
Matrix: Water
Analysis Batch: 324568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 324520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.0200	0.0222		mg/L		111	80 - 120	11	20

Lab Sample ID: 580-93263-1 MS
Matrix: Water
Analysis Batch: 324568

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.0200	0.0224		mg/L		112	80 - 120		

Lab Sample ID: 580-93263-1 MSD
Matrix: Water
Analysis Batch: 324568

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0200	0.0217		mg/L		108	80 - 120	3	20

Lab Sample ID: 580-93263-1 DU
Matrix: Water
Analysis Batch: 324568

Client Sample ID: TCLP - Purge Water
Prep Type: TCLP
Prep Batch: 324520

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		mg/L				NC	20

Lab Chronicle

Client: USSE2 O&M Services, LLC
Job ID: 580-93263-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: TCLP - Purge Water
Lab Sample ID: 580-93263-1
Date Collected: 03/06/20 08:30
Matrix: Water
Date Received: 03/06/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			324451	03/09/20 09:18	ART	TAL SEA
TCLP	Analysis	8260C		100	324860	03/14/20 06:59	CJB	TAL SEA
TCLP	Leach	1311			324694	03/12/20 08:42	ART	TAL SEA
TCLP	Prep	3510C			325754	03/28/20 15:18	APR	TAL SEA
TCLP	Analysis	8270D		1	325775	03/29/20 17:25	TL1	TAL SEA
TCLP	Leach	1311			324694	03/12/20 08:42	ART	TAL SEA
TCLP	Prep	3510C			324978	03/17/20 09:23	S1S	TAL SEA
TCLP	Analysis	8270D		1	325155	03/19/20 14:45	CJ	TAL SEA
TCLP	Leach	1311			324448	03/09/20 08:50	ART	TAL SEA
TCLP	Prep	3010A			324519	03/10/20 08:03	ART	TAL SEA
TCLP	Analysis	6010C		1	324607	03/10/20 14:54	TMH	TAL SEA
TCLP	Leach	1311			324448	03/09/20 08:50	ART	TAL SEA
TCLP	Prep	7470A			324520	03/10/20 08:07	ART	TAL SEA
TCLP	Analysis	7470A		1	324568	03/10/20 12:58	A1B	TAL SEA

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

Accreditation/Certification Summary

Client: USSE2 O&M Services, LLC
Job ID: 580-93263-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-14-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-20-23
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C553	02-18-21

Sample Summary

Client: USSE2 O&M Services, LLC
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 580-93263-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-93263-1	TCLP - Purge Water	Water	03/06/20 08:30	03/06/20 11:40	

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information
Client Contact: Jedediah Smith
Company: USSE2 O&M Services, LLC
Address: 3592 Collins Ferry Road Suite 130
City: Morgantown
State, Zip: WV, 26505
Phone: 304-440-4500(Tel)
Email: jedediah.smith@netl.doe.gov
Project Name: Dept of Energy- NETL - Albany, OR
Site: ALBANY

Sampler: JED SMITH
Phone: 304-532-2279
Lab PM: Colussy, Jill L
E-Mail: jill.colussy@testamericainc.com
Carrier Tracking No(s):
COC No: 580-37450-9883.1
Page: Page 1 of 1
Job #:
Due Date Requested:
TAT Requested (days): TWO WEEKS
PO #: SOS30042
WO #:
Project #: 58008376
SSOW#:

Analysis Requested

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)	Volatile Organics - 8260C RCRA	Metals - 6010C, 7470A * RCRA	Semi-Volatiles - 8270D RCRA	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	D	N		
TRLP- PURGE WATER	03/06/20	0830	G	WATER	N	N	3	1	2	6	*METAL ANALYSIS: ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, SELENIUM, SILVER, NICKEL, ZINC, COPPER MOLYBDENUM

580-93263 Chain of Custody

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:

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: David Hrcka	03/06/20 1143	AMENTUM	Received by:	3/6/20 1140	TLRP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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: 2.2

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

3/31/2020

Client Information	Sampler: JED SMITH	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37450-9883.1
Client Contact: Jedediah Smith	Phone: 304-532-2279	E-Mail: jill.colussy@testamericainc.com		Page: Page 1 of 1
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:			
City: Morgantown	TAT Requested (days): TWO WEEKS			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
Site: ALBANY	SSOW#:			

Analysis Requested

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)	Volatile Organics - 8260C, RCRA	Metals - 6010C, 7471A, RCRA	Semi-Volatiles - 8270D, RCRA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
TCLP- PURGE WATER	03/06/20	0830	G	WATER	N	N	3	1	2	6	*METAL ANALYSIS: ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, SELENIUM, SILVER, NICKEL, ZINC, COPPER MOLYBDENUM

580-93263 Chain of Custody

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:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 03/06/20 1140	Company: AMENTUM	Received by:	Date/Time: 3/6/20 1140	Company: TAER		
Relinquished by:	Date/Time: 3/6/20 1700	Company: TAER	Received by:	Date/Time: 3-7-20 0945	Company: TASEC		
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:	2.2 7=1.2			

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: USSE2 O&M Services, LLC

Job Number: 580-93263-1

Login Number: 93263
List Number: 1
Creator: O'Connell, Jason I

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C.
Groundwater Analytical Results

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 41
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	MW003-030220	3/02/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-4	MW004-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-5	MW005-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-6	MW006-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-7	MW007-030520	3/05/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-8	MW008-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-9	MW009-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-10	MW010-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-10DUP	MW010DUP-03032	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-11	MW011-030520	3/05/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-11DUP	MW011DUP-03052	3/05/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-13	MW013-030220	3/02/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-14	MW014-030220	3/02/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-15	MW015-030520	3/05/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-16	MW016-030520	3/05/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-17	MW017-030220	3/02/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-18	MW018-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-19	MW019-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-20	MW020-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-22	MW022-030220	3/02/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-23	MW023-030220	3/02/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-24	MW024-030520	3/05/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-25	MW025-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-26	MW026-030220	3/02/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-27	MW027-030520	3/05/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-28	MW028-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-29	MW029-030320	3/03/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-30	MW030-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-31	MW031-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-100	MW100-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-101	MW101-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-102	MW102-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U
MW-103	MW103-030420	3/04/20	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.78 U	0.29 U	1.1 U	0.41 U	0.33 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
E = Result exceeded calibration range.
Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 41
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene
MW-3	MW003-030220	3/02/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-4	MW004-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**0.56 J**	0.44 U
MW-5	MW005-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-6	MW006-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-7	MW007-030520	3/05/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-8	MW008-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-9	MW009-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-10	MW010-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-10DUP	MW010DUP-03032	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-11	MW011-030520	3/05/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-11DUP	MW011DUP-03052	3/05/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-13	MW013-030220	3/02/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-14	MW014-030220	3/02/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**0.40 J**	0.44 U
MW-15	MW015-030520	3/05/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**7.2**	0.44 U
MW-16	MW016-030520	3/05/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-17	MW017-030220	3/02/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-18	MW018-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**1600 E**	0.44 U
MW-19	MW019-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-20	MW020-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**2200**	0.44 U
MW-22	MW022-030220	3/02/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**16**	0.44 U
MW-23	MW023-030220	3/02/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**3.4**	0.44 U
MW-24	MW024-030520	3/05/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**130**	0.44 U
MW-25	MW025-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-26	MW026-030220	3/02/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-27	MW027-030520	3/05/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**70**	0.44 U
MW-28	MW028-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-29	MW029-030320	3/03/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-30	MW030-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-31	MW031-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-100	MW100-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-101	MW101-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-102	MW102-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	0.30 U	0.44 U
MW-103	MW103-030420	3/04/20	0.61 U	1.8 U	0.46 U	0.53 U	0.18 U	0.55 U	0.18 U	0.35 U	0.98 U	0.32 U	0.51 U	0.51 U	0.28 U	0.53 U	0.43 U	0.56 U	1.1 U	**0.46 J**	0.44 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
E = Result exceeded calibration range.
Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 41
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Chlorobromomethane	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethen	cis-1,3-Dichloropropene
MW-3	MW003-030220	3/02/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-4	MW004-030320	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-5	MW005-030420	3/04/20	0.29 U	0.50 U	1.1 U	**0.89 J**	5.4 U	0.69 U	0.20 U
MW-6	MW006-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-7	MW007-030520	3/05/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-8	MW008-030320	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-9	MW009-030320	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-10	MW010-030320	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-10DUP	MW010DUP-03032	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-11	MW011-030520	3/05/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-11DUP	MW011DUP-03052	3/05/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-13	MW013-030220	3/02/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-14	MW014-030220	3/02/20	0.29 U	0.50 U	1.1 U	**2.0 J**	5.4 U	0.69 U	0.20 U
MW-15	MW015-030520	3/05/20	0.29 U	0.50 U	1.1 U	**3.9 J**	5.4 U	**1.6 J**	0.20 U
MW-16	MW016-030520	3/05/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-17	MW017-030220	3/02/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-18	MW018-030420	3/04/20	0.29 U	0.50 U	1.1 U	**240**	5.4 U	**2.0 J**	0.20 U
MW-19	MW019-030320	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-20	MW020-030320	3/03/20	0.29 U	0.50 U	1.1 U	**220 J**	5.4 U	0.69 U	0.20 U
MW-22	MW022-030220	3/02/20	0.29 U	0.50 U	1.1 U	**2.7 J**	5.4 U	**2.1 J**	0.20 U
MW-23	MW023-030220	3/02/20	0.29 U	0.50 U	1.1 U	**3.9 J**	5.4 U	0.69 U	0.20 U
MW-24	MW024-030520	3/05/20	0.29 U	0.50 U	1.1 U	**15**	5.4 U	0.69 U	0.20 U
MW-25	MW025-030320	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-26	MW026-030220	3/02/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-27	MW027-030520	3/05/20	0.29 U	0.50 U	1.1 U	**16**	5.4 U	0.69 U	0.20 U
MW-28	MW028-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-29	MW029-030320	3/03/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-30	MW030-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	**6.2**	0.20 U
MW-31	MW031-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-100	MW100-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-101	MW101-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U
MW-102	MW102-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	**1.1 J**	0.20 U
MW-103	MW103-030420	3/04/20	0.29 U	0.50 U	1.1 U	0.50 U	5.4 U	0.69 U	0.20 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
E = Result exceeded calibration range.
Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 41
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	MW003-030220	3/02/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-4	MW004-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-5	MW005-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-6	MW006-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-7	MW007-030520	3/05/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-8	MW008-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-9	MW009-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-10	MW010-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-10DUP	MW010DUP-03032(	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-11	MW011-030520	3/05/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-11DUP	MW011DUP-03052(	3/05/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-13	MW013-030220	3/02/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-14	MW014-030220	3/02/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-15	MW015-030520	3/05/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-16	MW016-030520	3/05/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-17	MW017-030220	3/02/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-18	MW018-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	**0.79 J**	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-19	MW019-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-20	MW020-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-22	MW022-030220	3/02/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-23	MW023-030220	3/02/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-24	MW024-030520	3/05/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-25	MW025-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-26	MW026-030220	3/02/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-27	MW027-030520	3/05/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-28	MW028-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-29	MW029-030320	3/03/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-30	MW030-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-31	MW031-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-100	MW100-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-101	MW101-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-102	MW102-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U
MW-103	MW103-030420	3/04/20	0.34 U	0.14 U	2.3 U	0.50 U	0.40 U	0.79 U	0.51 U	0.75 U	0.44U	1.4 U	0.93 U	0.44 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
E = Result exceeded calibration range.
Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 41
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	MW003-030220	3/02/20	0.50 U	0.39 U	0.49 U	1.0 U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-4	MW004-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-5	MW005-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-6	MW006-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-7	MW007-030520	3/05/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-8	MW008-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-9	MW009-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-10	MW010-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-10DUP	MW010DUP-03032	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-11	MW011-030520	3/05/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-11DUP	MW011DUP-03052	3/05/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-13	MW013-030220	3/02/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-14	MW014-030220	3/02/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-15	MW015-030520	3/05/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	**1200**	0.63 U	0.22 U
MW-16	MW016-030520	3/05/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-17	MW017-030220	3/02/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	**1.2 J**	0.63 U	0.22 U
MW-18	MW018-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	**120**	0.39 U	0.39 U	0.16 U	**150**	0.63 U	0.22 U
MW-19	MW019-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-20	MW020-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	**11**	0.39 U	0.39 U	0.16 U	**270**	0.63 U	0.22 U
MW-22	MW022-030220	3/02/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	**1.2 J**	0.39 U	0.39 U	0.16 U	**7.8**	0.63 U	0.22 U
MW-23	MW023-030220	3/02/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	**2.1 J**	0.63 U	0.22 U
MW-24	MW024-030520	3/05/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	**62**	0.63 U	0.22 U
MW-25	MW025-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-26	MW026-030220	3/02/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-27	MW027-030520	3/05/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-28	MW028-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-29	MW029-030320	3/03/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-30	MW030-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	**0.56 J**	0.16 U	0.85 U	0.63 U	0.22 U
MW-31	MW031-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U
MW-100	MW100-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	**1.1 J**	0.63 U	0.22 U
MW-101	MW101-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	**1.2 J**	0.63 U	0.22 U
MW-102	MW102-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	**26**	0.63 U	0.22 U
MW-103	MW103-030420	3/04/20	0.50 U	0.39 U	0.49 U	1.0U	0.58 U	0.41 U	0.39 U	0.39 U	0.16 U	0.85 U	0.63 U	0.22 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
E = Result exceeded calibration range.
Bold indicates analyte was detected above the Method Detection Limit

Appendix D.
Data Validation Memo

Data Review

The data quality review of the thirty-one primary groundwater samples and two field duplicate groundwater samples collected between March 2 and March 5, 2020 at the U.S. Department of Energy (DOE) National Technology Laboratory (NETL) in Albany, Oregon has been completed. 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 580-93265-1. 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. For samples from wells MW-8, MW-25, MW-9, and MW-19 the lab incorrectly transferred the sample date from the COC to the lab system. The date was changed from March 2 to March 3 in the corrected report.

- 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 2.8º C on ice.

- Trip Blank – The trip blank analyses were non-detect.

- Method Blanks – All method blank analyses were non-detect.

- Surrogate Recoveries – All surrogate recoveries were within acceptance criteria.

- Matrix Spikes – 54 of 59 matrix spikes (MS) in the sample from well MW-10 (Lab Sample 580-93265-12) were detected at less than the lower recovery limit. 36 of these exceeded the Relative Percent Difference (RPD) limit. All analyses from well MW-10 (Lab Sample 580-93265-12) were non-detect and should be labelled UJ for not detected, estimated.

  Well MW-10 (Lab Sample 580-93265-12) Matrix Spike Results:

Analyte	Result	Unit	Flag	% Rec.	Low Limit	High limit	RPD	RPD limit
1,1,1,2-Tetrachloroethane	5.67	µg/L	F1	57	79	120	28%	20%
1,1,1-Trichloroethane	6.58	ug/L	F1	66	74	130	11%	18%
1,1,2,2-Tetrachloroethane	5.79	ug/L	F1	58	74	124	22%	18%
1,1,2-Trichloroethane	5.90	ug/L	F1	59	80	121	26%	21%

Analyte	Result	Unit	Flag	% Rec.	Low Limit	High limit	RPD	RPD limit
1,1-Dichloroethane	6.23	µg/L	F1	62	70	129	11%	26%
1,1-Dichloroethene	6.25	µg/L	F1	63	70	129	10%	27%
1,1-Dichloropropene	5.97	µg/L	F1	60	80	120	25%	14%
1,2,3-Trichlorobenzene	4.93	µg/L	J	49	23	150		35%
1,2,3-Trichloropropane	6.28	µg/L	F1	63	76	124	17%	30%
1,2,4-Trichlorobenzene	4.52	µg/L	F1	45	57	140	21%	27%
1,2-Dibromo-3-Chloropropane	5.00	µg/L	J F1	50	65	125	23%	27%
1,2-Dichlorobenzene	5.44	µg/L	F1	54	80	120	33%	15%
1,2-Dichloroethane	6.00	µg/L	F1	60	76	131	21%	18%
1,2-Dichloropropane	5.88	µg/L	F1	59	72	126	18%	26%
1,3,5-Trimethylbenzene	5.48	µg/L	F1	55	80	120	31%	14%
1,3-Dichlorobenzene	5.04	µg/L	F1	50	80	120	38%	14%
1,3-Dichloropropane	5.89	µg/L	F1	59	79	120	25%	26%
1,4-Dichlorobenzene	5.10	µg/L	F1	51	80	120	36%	17%
2,2-Dichloropropane	5.07	µg/L	F1	51	62	140	18%	23%
2-Chlorotoluene	5.50	µg/L	F1	55	80	120	31%	15%
4-Chlorotoluene	5.28	µg/L	F1	53	80	120	34%	14%
4-Isopropyltoluene	4.79	µg/L	F1	48	77	120	38%	13%
Benzene	6.56	µg/L	F1	66	75	121	12%	14%
Bromobenzene	5.62	µg/L	F1	56	80	120	30%	13%
Bromoform	4.06	µg/L	F1	41	61	132	33%	20%
Bromomethane	6.19	µg/L	F1	62	66	125	6%	27%
Carbon tetrachloride	6.14	µg/L	F1	61	72	129	15%	19%
Chlorobenzene	5.63	µg/L	F1	56	80	120	30%	15%
Chlorobromomethane	6.41	µg/L	F1	64	78	120	18%	20%
Chlorodibromomethane	5.09	µg/L	F1	51	71	120	28%	24%
Chloroethane	6.50	µg/L		65	65	132		35%
Chloroform	6.28	µg/L	F1	63	73	127	14%	22%
Chloromethane	5.93	µg/L	J	59	52	135		23%
cis-1,2-Dichloroethene	6.24	µg/L	F1	62	76	129	18%	15%
cis-1,3-Dichloropropene	5.24	µg/L	F1	52	77	120	32%	20%
Dibromomethane	6.19	µg/L	F1	62	80	120	23%	22%
Dichlorobromomethane	5.51	µg/L	F1	55	75	124	27%	22%
Dichlorodifluoromethane	4.46	µg/L	J	45	20	150		35%
Ethylene Dibromide	5.72	µg/L	F1	57	79	120	28%	20%
Hexachlorobutadiene	3.95	µg/L	J F1	39	74	125	47%	22%
Isopropylbenzene	5.56	µg/L	F1	56	75	120	25%	20%
Methyl tert-butyl ether	5.65	µg/L	F1	56	72	130	22%	18%
Methylene Chloride	6.31	µg/L	F1	63	77	125	18%	18%
n-Butylbenzene	4.46	µg/L	F1	45	78	120	42%	14%
N-Propylbenzene	5.24	µg/L	F1	52	80	120	35%	13%
o-Xylene	5.66	µg/L	F1	57	80	120	29%	16%
sec-Butylbenzene	5.21	µg/L	F1	52	78	120	33%	15%
Styrene	5.47	µg/L	F1	55	76	121	28%	16%

Analyte	Result	Unit	Flag	% Rec.	Low Limit	High limit	RPD	RPD limit
tert-Butylbenzene	5.64	µg/L	F1	56	80	121	30%	14%
Tetrachloroethene	5.08	µg/L	F1	51	76	120	33%	20%
Toluene	5.86	µg/L	F1	59	80	120	26%	19%
trans-1,2-Dichloroethene	6.28	µg/L	F1	63	77	124	18%	21%
trans-1,3-Dichloropropene	4.75	µg/L	F1	47	80	122	41%	25%
Trichloroethene	5.89	µg/L	F1	59	70	120	16%	21%
Trichlorofluoromethane	5.89	µg/L	F1	59	64	136	8%	27%
Vinyl chloride	6.05	µg/L	F1	60	65	130	8%	28%
1,2,4-Trimethylbenzene	6.45	µg/L	F1	64	80	120	20%	16%
Ethylbenzene	6.34	µg/L	F1	63	80	120	21%	14%
m-Xylene & p-Xylene	6.27	µg/L	F1	63	80	120	21%	14%
Naphthalene	5.30	µg/L		53	44	144		31%

F1 = MS Recovery is outside acceptance limits.

- Field Duplicate – Results from samples MW-10 and MW-10 Duplicate were non-detect for all Method 8260C volatile organics.

- Field Duplicate – Results from samples MW-11 and MW-11 Duplicate were non-detect for all Method 8260C volatile organics.

- Holding Times – All samples were analyzed within recommended holding times.

Overall Assessment of Data

Based on low matrix spike recoveries all analyses from well MW-10 (Lab Sample 580-93265-12) should be labelled UJ for not detected, estimated.

The remainder of the data is valid as reported.

References

EPA 2014. National Functional Guidelines for Superfund Organic Methods Data Review, August.