2024 Annual Monitoring Report

Olympic View Sanitary Landfill

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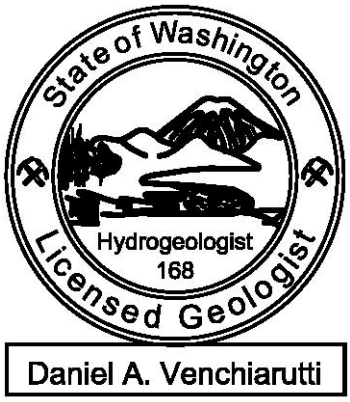


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1.0 INTRODUCTION

This report provides a summary of the 2024 semi-annual, post-closure environmental monitoring results for the Olympic View Sanitary Landfill (OVSL), located in Bremerton, Washington. Monitoring events for the current compliance period were performed during May and November of 2024. Environmental monitoring at the OVSL includes sampling and analysis of groundwater and leachate pond leak-detection liquid, and monitoring landfill gas (LFG). Leachate influent monitoring is also conducted on an annual basis.

Groundwater and LFG monitoring was performed at the facility in accordance with the OVSL *Environmental Monitoring Plan* (EMP, Engineering Management Support, Inc., 2010) and the current site-specific *Sampling and Analysis Plan* (SAP, revision 1.4, SCS Engineers, 2021). The plans were developed in consultation with Ecology and reflect a refined understanding of the site conditions based on the results of a Remedial Investigation/Feasibility Study (RI/FS) per Washington Administrative Code (WAC) 173-340 (Model Toxics Control Act, MTCA). The OVSL monitoring program is also intended to meet requirements of the Criteria for Municipal Solid Waste Landfills (WAC 173-351-430) which is administered by the Kitsap County Public Health District (KPHD).

SCS Engineers (SCS) and Aspect Consulting (for landfill gas) performed environmental monitoring at the OVSL throughout 2024. The following information summarizes the routine monitoring activities described in this report:

- Semiannual collection and analysis of groundwater samples at select monitoring wells within the monitoring network.
- Semiannual measurement of depth-to-water in groundwater monitoring wells sampled for water quality.
- Measurement of depth-to-water in water table-only groundwater monitoring wells.
- Semi-annual collection and analysis of a leachate pond/leak detection system sample.
- Collection and analysis of leachate influent samples (during the November semi-annual monitoring event).
- Quarterly measurement of LFG concentrations at perimeter soil gas monitoring probes and building monitoring locations.

1.1 REPORT CONTENTS

The 2024 Annual Monitoring Report includes:

- A site location description and background section.
- A discussion of monitoring activities including a summary of sampling techniques and locations within the groundwater and LFG monitoring network.
- Construction details for groundwater monitoring wells.
- A discussion of the groundwater conditions including groundwater elevations, flow direction, and flow velocity for the reporting year.
- A summary of the monitoring analytical program and presentation of the analytical results and findings for the reporting year.

- A summary of the LFG monitoring results for the reporting year.
- A geochemical evaluation of the water quality samples collected during the November 2024 semi-annual monitoring event.
- A statistical trend analysis and concentration time series plots of groundwater monitoring results.
- A statistical evaluation and comparison of groundwater results to calculated prediction limits.
- A comparison of groundwater monitoring results to site-specific cleanup levels and other applicable criteria.
- Field documentation from the 2024 monitoring events.
- A data validation report and associated analytical laboratory reports for the November 2024 semi-annual monitoring event.
- A summary of historical LFG monitoring measurements.

Previously issued analytical laboratory data reports for the first 2024 semi-annual monitoring event can be found in the May 2024 semi-annual monitoring report. Similarly, LFG monitoring results for the first two quarters of 2024 have been previously documented in the May 2024 monitoring report.

In order to conserve paper resources, the complete 2024 annual report is presented on an enclosed data CD attached to the rear cover of the document. However, for the convenience of the reviewer, hard copies of select materials are included in this report.

2.0 SITE DESCRIPTION

2.1 LOCATION

The closed OVSL facility is located on approximately 436 acres in Sections 3 and 10, Township 23N, Range 1W of the Willamette Meridian, in Kitsap County, Washington. The landfill is situated on an upland area approximately 10 miles southwest of the city of Bremerton. The facility address is 10015 SW Barney White Road, Bremerton, Washington. A site location map is shown on Figure 1. The closed refuse fill area covers approximately 65 acres of the property. A site plan is presented on Figure 2.

2.2 BACKGROUND

The OVSL facility accepted municipal solid waste between 1967 and 2003. Landfill closure was completed in 2004, in accordance with WAC 173-351. Closure activities included construction of an LFG monitoring system, an active LFG collection and treatment system, a leachate collection and treatment system, a stormwater drainage control system, and a final landfill cover.

The final landfill cover consists of (top to bottom):

- 12-inches of vegetative topsoil and cover soil.
- Geotextile fabric.
- 12-inch drainage layer.
- Geonet composite 60-mil flexible membrane liner.
- 6-inch thick, low permeability soil.

The active LFG collection system includes a total of 81 well heads (69 vertical wells, 4 horizontal wells, and 8 interconnections to the leachate collection system) connected to a gas treatment flare station. The leachate collection system consists of subgrade collection piping and a leachate collection lagoon. A stormwater drainage system controls stormwater erosion and minimizes off-site migration of sediment-laden water (WMW, 2008). Drainage and erosion protection improvements include vegetation, a landfill toe under-drain, down chutes, culverts, and drainage ditches.

2.3 TOPOGRAPHY AND CLIMATE

The facility is situated in the Southern Upland of the Kitsap Peninsula adjacent to the Union River-Gorst Creek trough. Site topography ranges from approximately 150 to 360 feet above mean sea level (MSL). The land surface generally slopes to the west-southwest towards the Union River, which is situated approximately one-half mile west of the site.

Kitsap County's climate is characterized as maritime, with long, mild, wet winters and short, cool, dry summers. Climatically, and due to the local relief, there can be significant variations in total annual precipitation and average temperatures over short distances.

2.4 LOCAL AND REGIONAL HYDROGEOLOGY

The regional near-surface geology in the vicinity of the OVSL is dominated by glacio-fluvial and glacio-lacustrine deposits associated with the Vashon glaciation. A Remedial Investigation Report completed for the OVSL (Parametrix, 2007) identified the following main stratigraphic units in the vicinity of the site:

- Organic Soils and Peat (Qw).
- Alluvium (Qal).
- Vashon Recessional Outwash (Qvr).
- Vashon Lacustrine Recessional Outwash (Qvrl).
- Vashon Till (Qvt).
- Vashon Advance Outwash (Qva).
- Vashon Advance Lacustrine Deposits (Qval).
- Pre-Vashon Deposits (Qpvu).

With the exception of the Vashon Till (which has not been confirmed to be present at the site), each of these stratigraphic units appears to be present beneath the OVSL.

Information provided in the site conceptual model indicates that organic soils/peat, alluvium (including flood plain deposits), outwash, glacio-fluvial, and glacio-lacustrine deposits outcrop along the west-central portions of the OVSL facility. Groundwater is present beneath the site at elevations ranging between approximately 140 and 240 feet above MSL (depths-to-water ranging between near-surface and approximately 80 feet below ground surface). The groundwater flow direction beneath the landfill is generally toward the west.

3.0 2024 MONITORING ACTIVITIES

3.1 GROUNDWATER

3.1.1 Groundwater Monitoring Network

Groundwater monitoring is conducted at the OVSL in accordance with the January 2001 Agreed Order, the EMP as modified through subsequent technical discussions with Ecology, and the current site-specific SAP (SCS, 2021, revision 1.4). The monitoring program is designed to meet the post-closure landfill monitoring requirements under WAC 173-351-430.

The groundwater monitoring network at the OVSL includes four categories of monitoring wells that are sampled semi-annually, plus monitoring wells that are only used for water level measurements. The four well categories designated at the site include the following:

- Upgradient (background) monitoring wells are used to assess the quality of groundwater upgradient of the landfill. *[Note: Water quality monitoring at Upgradient wells is limited to Appendix II field parameters for one of the semi-annual events (May event) as long as no new water quality exceedances or increasing trends are observed.]*
- Performance monitoring wells are used to assess groundwater quality at the edge of the waste management unit.
- Compliance monitoring wells are used to assess groundwater quality at the MTCA Point-of-Compliance (POC).
- Downgradient monitoring wells are used to assess groundwater quality leaving the site.

A monitoring well identifier and type summary is provided in the exhibit below. The locations of these groundwater monitoring wells are illustrated on Figure 2.

Exhibit 1. 2024 OVSL Groundwater Monitoring Well Network (by Type)

Upgradient *	Performance	Compliance	Downgradient
MW-13A	MW-19C	MW-15R	MW-29A
MW-13B		MW-34A	MW-32
MW-16		MW-34C	MW-33A
MW-35		MW-39	MW-33C
		MW-42	MW-36A
		MW-43	

A indicates a shallower well completion
B indicates an intermediate well completion
C indicates a deeper well completion
* Water quality monitoring at Upgradient wells limited to Appendix II field parameters for one of the semi-annual events (May event) as long as no new water quality exceedances or increasing trends are observed.

Completion depths for the water quality monitoring wells range from approximately 20 to 260 feet below ground surface (bgs). Screen lengths vary from 5 to 20 feet, with a 10-foot average well screen length. Construction details for both the water quality monitoring wells and the water level measurement only wells are summarized on Table 1.

Each of the groundwater monitoring wells designated for routine water quality sampling is outfitted with a dedicated sampling pump (QED Well Wizard) suitable for low-flow purging and sampling. Low-flow sampling with dedicated pumps minimizes pump-introduced artifacts and eliminates cross contamination between wells. The dedicated bladder pumps are positioned with their inlets located within the screened interval of the well. Well construction, development, and pump installation are reported in detail in the *Report of 2005 Gas Probe and Monitoring Well Installations at OVSL* (SCS Engineers 2006), the *Remedial Investigation Report, OVSL, Kitsap County* (Parametrix, 2007) and the *Groundwater Monitoring Well Installation Report*, *OVSL* (SCS Engineers. 2009).

3.1.2 Monitoring Schedule

Groundwater monitoring was conducted on a semi-annual basis during 2024, with sampling events completed during May and November. Consistent with the current SAP, during the May event Upgradient sampling locations (MW-13A, MW-13B, MW-16 and MW-35) were only monitored for Appendix II field parameters. In addition to the routine Appendix I/II parameter list, three and five-year Appendix III parameters were also included in the requested analyses for Performance well MW-19C and Downgradient well MW-32 (3-year parameters) and Compliance wells MW-15R, MW-34C and MW-42 (5-year parameters) during the November semi-annual event.

3.1.3 Parameters and Analytical Methods

The analytical program for groundwater quality monitoring during the 2024 reporting period included the Appendix I, II and III parameters summarized in Exhibit 2.

Exhibit 2. 2024 OVSL Groundwater Analytical Parameters

Analytical Program	Parameter
Field Measurements	temperature, specific conductivity, pH, dissolved oxygen, turbidity, and static water level
Geochemical Indicator and General Parameters	chloride, sulfate, nitrate, calcium, sodium, bicarbonate, alkalinity, magnesium, potassium, iron, manganese and total suspended solids
Total Metals*	antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc
Volatile Organic Compounds	as listed in WAC 173-351 Appendix I
Leachate Indicator Parameters	ammonia, total organic carbon (TOC), and total dissolved solids (TDS)
Additional Appendix III Parameters **	Semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides and herbicides

* Consistent with the 2013 revisions to WAC 173-351, both dissolved and total Appendix I metals data were reported for a minimum period of eight quarters between September 2013 and December 2015. Beginning in 2016, Appendix I metals data have only been reported as a total fraction.

** Appendix III parameters were only analyzed for Performance well MW-19C, Downgradient well MW-32 and Compliance wells MW-15R, MW-34C and MW-42 during the November 2024 monitoring event.

Laboratory methods are derived from several industry-standard publications. Methods for Chemical Analysis of Water and Wastes (MCAWW, EPA 1983) describe procedures used for nitrate, nitrite, chloride, sulfate, and ammonia analyses. Standard Methods for the Examination of Water and Wastewater (APHA 1999, revised 2014) describe the methods used for analysis of alkalinity (total and bicarbonate), TDS, total suspended solids (TSS), and TOC. Metals and VOC analyses are described in EPA publication number SW-846, Test Methods for Evaluating Solid Wastes, Physical and Chemical Methods (EPA revised 2007). The method for measuring arsenic is described in Method 200.8, Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry (EPA 1994).

All laboratory analyses were completed by Eurofins in Denver, Colorado and Buffalo, New York, and by Analytical Resources Incorporated in Tukwila, Washington. These laboratories are accredited in accordance with WAC 173-50, Accreditation of Environmental Laboratories.

3.1.4 Field Monitoring and Sampling Procedures

Groundwater monitoring activities performed during 2024 consisted of surveying well conditions, obtaining field measurements (depth-to-water, pH, specific conductivity, turbidity, temperature, and dissolved oxygen), collecting groundwater samples for laboratory analysis, and packaging and shipping the samples to the relevant laboratories. These activities were conducted as described in the 2021 site-specific SAP (revision 1.4).

During routine groundwater monitoring, static water levels were initially measured and recorded in all of the water quality wells being sampled prior to initializing any well purging or groundwater collection procedures. Static water levels also were measured at 14 additional site wells that are only used for the semi-annual determination of the potentiometric groundwater surface. Depth-to-water measurements (measured to the nearest 0.01 ft.) were obtained using an electronic water level indicator. Static water level measurements were recorded and documented on field sampling and measurement forms included in Appendix A (for November 2024).

Prior to sample collection, groundwater monitoring wells were purged in order to ensure representative groundwater conditions at each location. Both purging and sampling of the monitoring wells were conducted using low-flow/low-volume well sampling techniques. Once the pumping was initiated, flow rates were confirmed by volumetric discharge measurements (by measuring the total volume discharged per cycle using a graduated cylinder and verifying the number of pump cycles per minute specified by the controller). Field measurements for pH, temperature, specific conductivity, dissolved oxygen, and turbidity were conducted using a closed, in-line flow-through cell and a portable turbidity meter. When water quality parameters stabilized and there had been no change in the pumping water level, sample collection would begin. Field parameters were measured as described in Standard Methods for the Examination of Water and Wastewater (APAH 2014).

Before initiating the purge process, the field meters were calibrated in accordance with manufacturer's guidelines. Field data obtained during the well purging procedure was recorded on field sampling and measurement forms included in Appendix A (for November 2024).

Non-disposable sampling equipment that was exposed to well water (e.g., electronic water level tape) was decontaminated between wells as outlined in the SAP. Decontamination of equipment was completed before leaving each well, thereby minimizing potential cross contamination. Disposable sampling equipment and disposable personal protective equipment (PPE) were removed and

disposed of after each use and prior to leaving each well. Excess purge and sampling water was discharged into the leachate collection pond.

3.2 LEACHATE

Leachate generated from three separate closed municipal waste storage cells is collected and pumped to an arterial force main that discharges to a one-acre leachate pond situated near the western end of the landfill (refer to Figure 2). The force main outfall is located on the north end of the leachate lagoon. Accumulated leachate is treated by aeration. When the leachate elevation in the pond approaches the elevation of the former pond outlet, leachate is removed via pumping and is hauled to nearby wastewater treatment plants.

3.2.1 Leachate Monitoring Locations

Per the EMP and SAP, leachate monitoring is performed at three locations at the facility. Influent leachate sampling station L-INF is situated immediately downstream of the force main outfall on the north end of the leachate collection pond. The OBWL-TD sampling station is located at the Old Barney White Landfill Toe Drain collection sump, which subsequently connects to the leachate pond. Sampling station LP-LCD is located at the pump discharge outlet which periodically returns any accumulated liquids that collect beneath the leachate pond liner system back into the main lagoon.

The locations of the leachate monitoring stations are illustrated on Figure 2.

3.2.2 Monitoring Schedule

The current SAP provides for annual monitoring of the L-INF and OBWL-TD stations and semi-annual monitoring of the LP-LCD station. Leachate samples were collected from L-INF and OBWL-TD during December 2024. The LP-LCD was sampled during each of the May and November 2024 monitoring events.

3.2.3 Parameters and Analytical Methods

A summary of the analyzed parameters for the leachate samples collected at the OVSL is presented in Exhibit 3. In addition to the routine leachate parameter suite, three-year Appendix III parameters were also included in the requested analyses for the L-INF and OBWL-TD samples during the November semi-annual event.

Exhibit 3. 2024 OVSL Leachate Analytical Parameters

Semi-Annual LP-LCD Analytical Program	**Parameter**
Field Measurements	temperature, specific conductivity, pH, dissolved oxygen, and turbidity
Geochemical Indicator Parameters	chloride, sulfate, nitrate/nitrite, calcium, sodium, bicarbonate, alkalinity, magnesium, potassium, iron, and manganese
Leachate Indicator Parameters	ammonia, TOC and TDS

Annual L-INF and OBWL-TD Analytical Program	Parameter
Field Measurements	temperature, specific conductivity, pH, dissolved oxygen, and turbidity
Geochemical Indicator Parameters	chloride, sulfate, nitrate/nitrite, calcium, sodium, bicarbonate, alkalinity, magnesium, potassium, iron, and manganese
Total Metals	antimony, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc
Volatile Organic Compounds	as listed in WAC 173-351 Appendix I
Leachate Indicator Parameters	ammonia, total organic carbon (TOC), and total dissolved solids (TDS)
Additional Appendix III Parameters *	Semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides and herbicides

* Three-year Appendix III parameters were also analyzed for the L-INF and OBWL-TD leachate samples during December 2024.

Laboratory methods are the same methods used for groundwater samples. All laboratory analyses for the leachate samples were completed by Eurofins laboratories in Denver, Colorado and Buffalo, New York.

3.2.4 Leachate Monitoring Field Procedures

Field activities consisted of obtaining field parameter measurements, collecting leachate samples for laboratory analysis, and packaging and shipping the samples to the laboratory. The L-INF and OBWL-TD samples consisted of individual grab samples that were collected directly from their respective sampling stations using a peristatic pump. New disposable plastic tubing was used during the collection of each sample, and was subsequently discarded between sampling locations. The LP-LCD sample was obtained from an inline sampling port attached to the liquid return line that drains back into the leachate pond. All the leachate samples were collected directly into pre-labeled laboratory containers suitable for the chemical parameters being analyzed. Field instruments were calibrated in accordance with manufacturer's guidelines.

Field-measured parameters including temperature, specific conductivity, pH, and dissolved oxygen were measured as described in Standard Methods for the Examination of Water and Wastewater (APAH 2014). Field information obtained during leachate sampling was recorded on Field Information Forms included in Appendix A (for November 2024).

3.3 LANDFILL GAS

Landfill gas monitoring activities at the OVSL consist of obtaining field measurements of primary gas composition (methane, carbon dioxide, and oxygen) at 10 subsurface soil gas detection probes (several with multiple screened intervals) and six locations inside four onsite structures on or immediately adjacent to the landfill. Throughout 2024, all LFG monitoring at the OVSL was conducted by Aspect Consulting, with the data being communicated to SCS for inclusion in the semi-annual and annual monitoring reports.

LFG monitoring is conducted to provide an assessment of the subsurface soil gas conditions at the OVSL and monitor compliance with regulatory criteria for subsurface methane concentrations. At the subsurface gas detection probes (LFG probes) relative soil gas pressure was also measured in the field. LFG monitoring procedures are detailed in the 2021 SAP.

3.3.1 Landfill Gas Monitoring Network

Monitoring is conducted at 10 perimeter LFG probes (GP-7 through GP-16) and four onsite structures (Scale House, South Slope Well House, Electrical Shed and Office) as illustrated on Figure 3. Five of the LFG probes (GP-9 through GP-13) consist of multiple, vertically-discrete, monitoring zones. Probes with dual monitoring zones are designated with an "S" for the shallow zone, and a "D" for the deep zone. Probes with three monitoring zones are designated with an "S" for the shallow zone, "M" for the middle zone, and "D" for the deep zone. Details of all the LFG probes and boring logs can be found in *Report of 2005 Gas Probe and Monitoring Well Installations at OVSL* (SCS Engineers 2006).

3.3.2 Monitoring Schedule

Monitoring at the LFG probes and facility structures was conducted quarterly during February, May, September, and December 2024. LFG monitoring results are reported in Section 4.

3.3.3 Landfill Gas Monitoring Field Procedures and Instrumentation

Field monitoring was conducted in accordance with the 2021 SAP. The LFG probes and building locations were monitored in the field (for all parameters) using a Lantec GEM2000, or equivalent, portable multi-gas analyzer. This portable gas analyzer measures methane and carbon dioxide with a dual wavelength infrared cell with a reference channel. Oxygen is measured with an electro-chemical cell. Pressure was measured with a transducer. The gas analyzer was calibrated prior to each monitoring event.

3.3.4 Field Conditions

General weather conditions were noted for each quarterly LFG monitoring event. Atmospheric pressure fluctuations can influence gas concentrations and pressure in LFG probes. To assist in interpreting the monitoring data, barometric conditions were recorded during and prior to monitoring. The barometric trends for September and December 2024 are included in this report.

4.0 2024 MONITORING RESULTS

4.1 GROUNDWATER

4.1.1 Groundwater Elevation and Flow

All of the monitoring wells in the current compliance program were accessible for the collection of water table elevation information during 2024. Recorded depth-to-water levels are summarized in field documentation included in Appendix A.

Depth-to-water measurements collected during 2024 were used to calculate groundwater elevations in feet relative to MSL. The 2024 records have been compiled and are presented on Table 3. Groundwater elevation surface maps derived from static depth-to-water measurements collected at the OVSL monitoring wells for each of the semi-annual events are presented in Figures 4A and 4B. A hydrograph showing the past 10 years of recorded groundwater elevations is presented on Figure 5.

Groundwater elevations calculated for the OVSL ranged from 132.07 (MW-30A in November) to 241.88 (MW-13A in May) ft. MSL over the 2024 reporting period. Groundwater elevations remained relatively stable throughout the year. However, the November result for MW-30A appears to be anomalously low compared to previous results and may reflect an inaccurate field measurement. Historically, the potentiometric groundwater surface across the OVSL has not shown significant seasonal fluctuations.

The groundwater flow direction over the 2024 reporting period remained consistent with that previously reported at the site. Locally, the groundwater flow direction is to the west/northwest. As summarized below in Exhibit 4, the average hydraulic gradient across the site remained fairly consistent between the wet and dry seasons.

Exhibit 4. Calculated 2024 Hydraulic Gradient and Flow Velocities

East Side of OVSL Facility		
	May 2024	**November 2024**
Well Pair	MW-35/MW-24	
Hydraulic Gradient (ft/ft)	0.0324	0.0335
Flow Velocity (ft/day)	2.81	2.90
West Side of OVSL Facility		
	May 2024	**November 2024**
Well Pair	MW-20/MW-33A	
Hydraulic Gradient (ft/ft)	0.0136	0.0124
Flow Velocity (ft/day)	6.98	6.35

Eastern Hydraulic Conductivity = 26 ft/day (Parametrix 2007)
Western Hydraulic Conductivity = 154 ft/day (Parametrix 2007)
Porosity = 30% (Parametrix 2007)

4.1.2 Groundwater Quality

4.1.2.1 Chemical Analysis

Water quality data for the OVSL are summarized in Tables 4A through 4D. These tables present the data results, segregated by well type, for detected analytes and measured field parameters for the 2024 semi-annual monitoring events. Each table presents the data for a monitoring well category (Compliance, Performance, Downgradient, and Upgradient). A table (4E) summarizing the detected analytes and field parameters for the annual L-INF and OBWL-TD leachate and the semi-annual LP-LCD leak detection monitoring stations is also provided. Appendix III parameter detections for select groundwater and leachate samples are also summarized on Table 4F. In addition, a summary table of VOC detections in groundwater and leachate is presented as Table 5.

As summarized on Table 4F, vinyl chloride was the only detected Appendix III suite parameter reported in the November 2024 groundwater samples collected from Compliance wells MW-15R, MW-34C and MW-42, Performance well MW-19 and Downgradient well MW-32.

4.1.2.2 Data QA/QC

Analytical data from the Eurofins and ARI laboratories were subjected to a quality assurance/quality control (QA/QC) review. The review included field and in-house components. The field portion consisted of the collection and analysis of trip blanks, field replicates, and matrix spike/matrix spike duplicates. The in-house evaluation provided a detailed examination of laboratory data which included sample handling, analysis hold times, and laboratory performance analyses (duplicates, blanks, matrix spikes, matrix spike duplicates and surrogate recoveries). The 2024 data set was determined to be acceptable for the intended purposes. Appendix B contains the data validation report and the analytical laboratory data reports for the November 2024 monitoring event.

4.1.3 Spatial Distribution and Temporal Trends

4.1.3.1 Parameter Distribution

As noted for previous monitoring years, the influence of past waste disposal activities on groundwater quality at the OVSL continues to be observed through groundwater VOC detections, general chemistry, and inorganics and field parameter results. The elevated concentrations of parameters adjacent to the landfill are typically characteristic of influence from either landfill leaching, transport from LFG, or increased mobilization of naturally occurring constituents as a result of the landfill's presence.

Several key parameters (arsenic, iron, manganese, and vinyl chloride) are routinely monitored for their spatial distribution by plotting concentrations on the landfill base map. Exhibit 5 summarizes the spatial distribution of these key OVSL parameters in each of the monitoring well categories.

Exhibit 5. Spatial Distribution of Key OVSL Groundwater Parameters

Total Arsenic (ug/L) - November 2024 (Figure 6A)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	0.115	2.08 *MW-19C*	0.0536	0.125
Locations	*MW-35*		*MW-43*	*MW-33A*
High	0.381		13.4	9.3
Locations	*MW-16*		*MW-34C*	*MW-32*

Total Iron (mg/L) – November 2024 (Figure 6B)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	<0.06	0.15 *MW-19C*	<0.06	<0.06
Locations	*MW-13A, MW-13B, MW-16, MW-35*		*MW-15R, MW-34A*	*MW-36A*
High	NA		38	3.6
Location			*MW-34C*	*MW-29A*

Total Manganese (mg/L) – November 2024 (Figure 6C)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	<0.001	1.0 *MW-19C*	0.0014	<0.001
Locations	*MW-13A, MW-13B, MW-16, MW-35*		*MW-34A*	*MW-36A*
High	NA		37	2.1
Locations			*MW-34C*	*MW-32*

Vinyl Chloride (µg/L) – November 2024 (Figure 6D)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	<0.02	<0.02 *MW-19C*	<0.02	<0.02
Locations	*MW-13A MW-13B, MW-16, MW-35*		*MW-15R, MW-34A, MW-39, MW-43*	*MW-29A, MW-32, MW-33A, MW-33C, MW-36A*
High	*NA*		0.033	*NA*
Locations			*MW-42*	

As noted for previous monitoring years, groundwater impacts are observed in each category of monitoring wells at the site.

The most elevated arsenic concentration (0.381 µg/L) reported in the Upgradient (background) monitoring wells during the November 2024 monitoring event occurred at MW-16. Total iron and manganese were not detected in any of the Upgradient wells during the November event. Vinyl chloride was not reported in any of the Upgradient wells throughout the 2024 reporting period.

Detectable levels of arsenic, total iron and total manganese (2.08 µg/L, 0.15 mg/L and 1.0 mg/L, respectively) were reported during November 2024 in Performance monitoring well MW-19C. Vinyl chloride was not reported in MW-19C during 2024.

The most elevated primary parameter concentrations reported in the Compliance monitoring wells during November 2024 were observed in MW-34C (13.4 µg/L arsenic, 38 mg/L iron and 37 mg/L manganese) and MW-42 (0.033 µg/L vinyl chloride). These same parameters were highest in the Downgradient monitoring wells MW-32 (9.3 µg/L arsenic and 2.1 mg/L manganese) and MW-29A (3.6 mg/L iron). Vinyl chloride was not reported in any of the Downgradient wells during the November event.

4.1.3.2 Temporal Trends

Time series graphs and statistical trend analyses were completed for all Upgradient, Performance, Compliance, and Downgradient monitoring wells using the DUMPStat software package. The statistical data set includes analytical results obtained between 2005 through the present reporting year (2024). This evaluation was conducted for parameters listed in Appendices I and II of WAC 173-351-990 which are organized into two groups: "Trend Test A" and "Trend Test B". The "Trend Test A" time series includes all organic parameters in Appendices I and II that have been detected above the practical quantification limit (PQL) during at least one sampling event in any of the wells since 2005 (currently 25 VOCs). The "Trend Test B" time series includes Appendix I and II inorganic and groundwater quality parameters (currently 32 parameters). To facilitate review of the statistically significant trends, time series sets were developed to show those well/parameter combinations exhibiting either increasing or decreasing trends. These time series graphs are presented in Appendix C along with the other statistical evaluation results. A summary of those parameters showing significant increasing or decreasing concentration trends grouped by well type is provided on Table 6A, and a more detailed summary of parameter trends in specific wells can be found in Table 6B.

As observed in recent prior compliance years, the dominant data trend observed for the majority of water quality parameters monitored at the OVSL is that of stable or gradually decreasing concentrations. This is particularly apparent in the Compliance and Downgradient monitoring wells. However, significant decreases continue to be noted in all well groups for as many as 13 inorganic parameters and two VOCs (as summarized on Tables 6A/6B). Significant increasing trends were also noted for a few field monitored or inorganic parameters in several of the Upgradient, Compliance and Downgradient wells, although the overall number of parameters with increasing trends at the OVSL continues to remain low.

Significant parameter trends calculated for the Compliance monitoring wells are summarized in the following exhibit.

Exhibit 6. Significant Temporal Trends in Compliance Wells (2005-2024)

Increasing		Decreasing	
Parameter	**Wells**	**Parameter**	**Wells**
Chloride	MW-39	Alkalinity, Total	MW-15R, MW-34A, MW-34C, MW-42
Magnesium	MW-39	Ammonia	MW-42, MW-43
pH	MW-34C, MW-42	Barium	MW-15R, MW-42
Potassium, Dissolved	MW-42	Bicarbonate Alkalinity	MW-15R, MW-34A, MW-34C, MW-42
Specific Conductivity	MW-39	Calcium	MW-15R, MW-34A, MW-34C
Temperature	MW-34A, MW-34C	Chloride	MW-15R, MW-34A, MW-34C, MW-42
		Magnesium	MW-15R, MW-34A, MW-34C, MW-42
		Manganese	MW-42, MW-43
		Sodium	MW-15R, MW-34A, MW-34C, MW-42, MW-43
		Specific Conductivity	MW-15R, MW-34A, MW-34C
		Sulfate	MW-42
		Total Dissolved Solids	MW-15R, MW-34A, MW-34C
		Total Organic Carbon	MW-34C
		Vinyl Chloride	MW-34C

4.1.4 Groundwater Geochemistry

The geochemical character of the groundwater, LP-LCD, OBWL-TD and L-INF samples was evaluated by plotting and comparing geochemical parameters using a Piper diagram for the November 2024 analytical results. Water quality samples collected during the November 2024 monitoring event were of similar geochemical water type with clear differences seen between the groundwater and leachate derived samples.

As noted in past monitoring reports, the positions of the sampled wells on the diagram indicate that the dominant anion in site groundwater is bicarbonate, with cations being dominated by calcium and magnesium. The leachate derived samples continue to report significantly higher sodium, calcium and potassium concentrations than groundwater, as well as higher chloride and bicarbonate levels. The November 2024 OBWL-TD sample reported relatively low alkalinity, ammonia, chloride, sulfate, BOD, COD and TOC levels compared to the primary (L-INF) leachate sample. A Piper diagram plotting the November 2024 groundwater and leachate results is presented in Appendix D. The Piper diagram for the May 2024 event of the current compliance year can be found in the corresponding semi-annual monitoring report.

In addition to the Piper diagram, groundwater cation/anion balance calculations were also used to assess geochemical character. Ideally, after the major anions and cations present in a sample are determined, the sum of the positive cations (in milliequivalents per liter [meq/L]) should

approximately equal the sum of the negative anions (Hem 1986). All natural waters should be electroneutral. However, differences can arise between dissolved cations and anions in groundwater as measured by an analytical laboratory due to a number of factors including: presence of colloidal fractions, systematic error in preparation and analysis of samples, malfunction of/poorly calibrated equipment, major species omitted from analysis, the presence of unusually high concentrations of cations/anions, and not all ions present in water are included in the balance calculation. Due to these potential issues, differences in the ion balance can be difficult to assess for imbalances due to groundwater impacts.

The range of the sum of ions and balance of ions observed at the site for the November 2024 monitoring event are summarized in the exhibit below. Positive balance values indicate that the sum of the cations is greater than the sum of the anions. As stated in WAC 173-351-430-5(a), a relative percent difference (RPD) in the charge-balance (ion balance) of greater than ten percent (depending on the concentrations of ions in solution) could potentially indicate impacted groundwater conditions.

Exhibit 7. Cation-Anion Ranges for Groundwater (November 2024)

Well Group	Upgradient	Performance	Compliance	Downgradient
Sum of Cations (meq/L)	1.49 – 1.89	1.63	0.55 – 3.94	0.84 – 3.32
Sum of Anions (meq/L)	1.47 – 2.00	1.60	0.61 – 4.23	0.89 – 3.27
Balance (%)	2.96 – 3.88	3.24	1.16 – 8.18	1.74 – 6.59

Ion balances calculated for the November 2024 event were in a similar range as historically observed at the OVSL. None of these samples reported cation-anion balances outside of +/- ten percent.

4.1.5 Statistical Predication Limit Evaluation

Statistical prediction limits using data from the upgradient monitoring wells are calculated at the end of each monitoring year to provide updated background concentrations for all Appendix I and II inorganic detection monitoring and groundwater quality parameters (a total of 32 parameters). These updated background prediction limit concentrations are used for comparison purposes for compliance and downgradient monitoring wells.

Prediction limits calculated for inorganic parameters through November 2024 were exceeded at least once in six Compliance monitoring wells (MW-15R, MW-34A, MW-34C, MW-39, MW-42 and MW-43), and at five Downgradient monitoring wells (MW-29A, MW-32, MW-33A, MW-33C and MW-36A). Compliance well MW-42 (14 exceedances) and Downgradient well MW-32 (13 exceedances) reported the largest number of prediction limit exceedances for the November event. A summary of the latest prediction limit exceedances for the November 2024 Compliance and Downgradient data sets is presented on Table 7. Prediction limit calculations through 2024 are presented in Appendix C.

As summarized on Tables 6A and 6B, the following Upgradient monitoring wells exhibited statistically significant (increasing) trends over the period for which background prediction limits are calculated: MW-13B (bicarbonate/total alkalinity and specific conductance), and MW-35 (bicarbonate/total alkalinity, nitrate, specific conductance and temperature). Parameter trends in Upgradient monitoring wells are noted because they can impart a bias on the calculated prediction limit for the affected monitoring parameters which, in turn, can affect the number of exceedances identified for those monitoring parameters in Compliance and Downgradient wells. However, visual examination of the time series graphs presented in Appendix C suggests that the increasing trends noted for these

parameters are generally minor. Therefore, any bias to the prediction limit would be expected to be nominal and not significantly change the number of exceedances within this parameter subset.

4.1.6 Point of Compliance and Cleanup Level Exceedances

4.1.6.1 Point of Compliance (POC)

The solid waste regulations (WAC 173-351-300[6]), specify that groundwater quality compliance must be established at a POC located on the landfill property no more than one hundred fifty meters (four hundred ninety two feet) from the waste management unit boundary. At the OVSL, the POC is established as a line of wells located within 150 meters of the landfill waste management unit boundary. As illustrated on Figure 2, the Compliance monitoring wells are colored red and lie west/northwest of the downslope boundary of the landfill.

4.1.6.2 Cleanup Level Exceedances

Site Specific MTCA Cleanup Level

Ten organic and inorganic parameters are regulated under the OVSL Cleanup Action Plan (CAP, Ecology 2010) and have site-specific MTCA cleanup levels. Analytical results are used to calculate an upper confidence limit (95% UCL) of the mean concentration for each parameter for each Compliance and Downgradient monitoring well to assess compliance with their respective cleanup level.

The UCLs are calculated using a three-year moving data window for the ten site-specific chemicals of concern (COC). The UCLs are calculated using MTCAStat; calculation details are presented in Appendix C. The following exhibit and Table 8 summarize the COCs and their 2024 UCL exceedances in the Compliance and Downgradient monitoring wells.

Exhibit 8. 2024 MTCA Exceedances for Chemicals of Concern

Chemicals of Concern	Units	Site-specific MTCA Cleanup Level	Exceedances in 2024 (95% UCL)
1,1-Dichloroethane	µg/L	50	No
1,4-Dichlorobenzene	µg/L	2	No
Ammonia	mg/L	0.19	Yes
Arsenic	µg/L	0.427	Yes
Cis-1,2-Dichloroethene	µg/L	35	No
Ethyl ether	µg/L	50	No
Iron	mg/L	1.9	Yes
Manganese	mg/L	0.73	Yes
Trichloroethene	µg/L	1	No
Vinyl Chloride	µg/L	0.2	Yes

Blue indicates this COC reported a 95% UCL exceedance of its site-specific MTCA Cleanup Levels in at least one Compliance or Downgradient well during 2024.

As note in previous annual monitoring reports, the OVSL continues to report generally stable to improving groundwater quality. The 95% UCL for vinyl chloride remains below the cleanup level in all Compliance wells and all Downgradient wells except MW-32. It is important to note that minor variations in parameter concentrations observed from year to year can cause exceedances to arise

or vanish between reporting periods. This is largely a result of the UCLs hovering very near their site cleanup levels and not an indication of meaningful changes to overall groundwater conditions.

Statistically significant COC trends are also noted on Table 8 in order to provide additional information regarding the status of the UCL relative to the cleanup standard. Trend information may be particularly useful if the calculated UCL value is very close to the cleanup standard (e.g., within 10%). In such cases, trend information may be useful in predicting a change in status of the UCL versus the cleanup level in the relative near term.

Exceedances of the site-specific MTCA cleanup levels were reported in four of the six Compliance well locations during 2024 (refer to Table 8) including MW-34C (arsenic, iron and manganese), MW-39 (ammonia and iron), MW-42 (ammonia, iron and manganese), and MW-43 (iron and manganese). Statistically significant decreasing trends were also noted in several Compliance wells for vinyl chloride (in MW-34C), manganese (in MW-42 and MW-43); and ammonia (in MW-42 and MW-43. No other statistically significant increasing trends were calculated for the site-specific COCs in the remaining Compliance wells. Similar exceedances and trends were reported for these wells during the previous (2023) compliance period. In addition, the 95% UCLs for the VOC COCs remained below the site-specific MTCA cleanup levels in all of the Compliance monitoring wells during 2024.

Exceedances of at least one of the site-specific MTCA cleanup levels were reported in four of the five Downgradient well locations (refer to Table 8) including MW-29A (iron and manganese), MW-32 (arsenic, manganese and vinyl chloride), MW-33A (ammonia and iron), and MW-33C (iron and manganese). Downgradient well MW-33C reported a statistically significant increasing trend for arsenic. However, significant decreasing trends continued to be reported at MW-29A (for ammonia) and MW-32 (for vinyl chloride). With the exception of vinyl chloride in MW-32, the 95% UCLs for the tracked VOCs remained below their site-specific MTCA cleanup levels in all of the Downgradient monitoring wells.

Other Criteria Comparison (Federal MCLs, WAC 173-200, and MTCA)

In addition to the site-specific MTCA cleanup levels, groundwater at the OVSL is also compared to WAC 173-200 Groundwater Quality Protection Standards and State/Federal Primary and Secondary Maximum Contaminant Levels (MCLs). For comparison purposes, site-specific MTCA cleanup levels are also included.

The WAC 173-200 and MCL exceedances for the 2024 reporting period by parameter and well are summarized on Table 9. Criteria for the following seven analytes were exceeded:

- pH
- specific conductance
- ammonia
- arsenic
- iron
- manganese
- vinyl chloride

These parameters are noted to have routinely exceeded their respective regulatory standards over the previous five (2020 through 2024) compliance years. The magnitude of the 2024 exceedances remain generally consistent with previous results.

4.2 LEACHATE MONITORING RESULTS

4.2.1 Leachate Quality

Fall 2024 leachate influent (L-INF) and Old Barney White Landfill Toe Drain (OBWL-TD) sample results are presented on Tables 4E and 4F. Samples were also obtained from the LP-LCD monitoring station and submitted for selected Appendix II parameter and total metals analysis during each of the 2024 semi-annual events (refer to Table 4E).

Similar to previous years, the annual L-INF sample reported relatively elevated concentrations of the typical leachate parameters, including total/bicarbonate alkalinity, ammonia, calcium, chloride, iron, manganese, magnesium, sodium, COD and TOC. In addition, low, but detectable, levels of tert butyl alcohol and tetrahydrofuran were reported in the November 2024 sample. The annual OBWL-TD sample continued to report generally lower leachate indicator results than the leachate influent.

The 2024 semi-annual LP-LCD samples also continued to report lower alkalinity, ammonia, chloride, sulfate, COD and TOC concentrations than routinely observed in the L-INF leachate sample. Low, but detectable, levels of tert butyl alcohol and tetrahydrofuran were reported in the May 2024 LP-LCD sample, but not in the November sample.

As summarized on Table 4F, the L-INF Appendix III sample also reported low-level detections of cyanide, total nickel and BOD, in addition to the previously noted butyl alcohol and tetrahydrofuran detections. No Appendix III detections were reported in the December OBWL-TD leachate sample.

4.2.2 Leachate Generation Rates

Leachate volumes generated at the OVSL have been recorded on a weekly basis since 2008. Over the 2024 reporting period, an estimated 748,582 gallons of leachate were pumped into the leachate collection pond. A total of 49.83 inches of rainfall was recorded at the OVSL weather station during 2024.

Leachate generation at the OVSL has significantly declined over the past decades. Prior to 2013, the facility typically produced over 2 million gallons annually. Between 2013 and 2023, annual leachate generation ranged from a high of 1,106,803 gallons (in 2014) to a low of 681,901 gallons (in 2016). The leachate volume calculated for 2024 remains within this reduced range, and continues to indicate that ongoing improvements to site maintenance and existing infrastructure are reducing leachate generation rates at the OVSL. Annualized rainfall totals at the OVSL and the volumes of leachate produced on a quarterly and annual basis over the last 18 years are presented on Figure 7.

In addition, the liner leak collection/detection system is checked regularly for the presence of any accumulated liquids beneath the OVSL leachate pond. If liquids are present, they are pumped out of the collection system, pass through the LP-LCD monitoring station, and are returned to the leachate pond. The volumes of liquid pumped out of the liner leakage collection system during 2024 are presented on Table 10. A total of 2,205 gallons of liquid were removed from the collection system during 2024. This is a slightly lower LP-LCD volume than was pumped (2,375 gallons) from this system during the preceding year (2023).

4.3 LANDFILL GAS MONITORING RESULTS

LFG monitoring results for the OVSL are discussed in terms of detected methane and/or carbon dioxide (at concentrations of both gases at levels greater than 0.3 percent by volume) and depressed oxygen (less than 20.3 percent by volume). The detection of these gases, as well as elevated gas pressures within the perimeter probes, are indicative of the potential presence of LFG. The reported values represent measurements under stabilized conditions (after purging at least one probe volume from each sampling zone).

Perimeter LFG probes and surface structure locations were monitored quarterly for the presence of LFG. The third and fourth quarter 2024 LFG monitoring results are summarized in Tables 11A and 11B, respectively. A summary of the LFG probe results over the entire 2024 compliance period is also provided on Table 12. In addition, LFG extraction rates and major gas component results for the 2024 operational period are summarized in Appendix E (on Table E-4). An estimated 69.52 million cubic feet of LFG were collected at the OVSL flare inlet over 2024, with an annualized average concentration of 22.27 percent methane (by volume).

4.3.1 Perimeter Gas Probes

None of the perimeter probes at the OVSL reported a detectable methane measurement during 2024. It should be noted that methane concentrations of less than five percent by volume have a reading accuracy of ±0.3 percent by volume.

Carbon dioxide was reported at the majority of LFG probe locations with detected concentration readings during September 2024 ranging from 0.6 (GP-10D) to 11.1 percent by volume (GP-7). LFG probes reported carbon dioxide concentrations ranging between 0.7 (GP-10D) and 9.8 percent by volume (GP-7) during December 2024. Concentrations of carbon dioxide less than five percent by volume also have a reading accuracy of ±0.3 percent by volume.

During the September event depressed oxygen levels (less than 20.3 percent by volume) were measured at the majority of the LFG probes ranging from 0.4 (GP-15) to 19.3 (GP-10S) percent by volume. None of the September probe measurements reported oxygen levels at or above 20.3 percent by volume. Depressed oxygen levels for the December event ranged from 0.2 (GP-15)) to 19.8 (GP-9D) percent by volume. During December, two probes (GP-10S and GP-10D) reported oxygen levels at or above 20.3 percent by volume. The reading accuracy for oxygen with the GEM2000 at concentrations less than 25 percent by volume is ±1 percent by volume.

As reported during previous compliance years, overall LFG production at the closed OVSL has and will continue to decline over time. The observed declines in methane and carbon dioxide levels in the OVSL gas monitoring probes (as well as the increases in oxygen levels) likely also reflect past improvements to the LFG extraction system components (e.g., replacement of gas flares and blower station and the 2011 installation of six additional LFG wells in the Barney White area) and more recent changes to LFG extraction system operations implemented by Waste Management.

Appendix E includes tables and time-series plots of the historical concentrations of methane, carbon dioxide, and oxygen in the currently monitored gas probes, from March 2008 through the end of the 2024 monitoring year.

4.3.2 Structure Monitoring

Methane was not detected above instrument detection levels in the four monitored OVSL structures (Scale House, South Slope Well House, Electrical Shed and Office) during either the September or December LFG monitoring events. The regulatory standard for methane in structures on or near the landfill is 25% of the lower explosive limit (LEL). Similarly, carbon dioxide was not measured in excess of the instrument's 0.3 percent by volume detection level in any of these structures. With the exception of a pair of anomalously depressed readings (19.1 and 19.9 percent by volume at the South Slope Well House and Office Shed) during the September event, the oxygen levels measured in these structures were all ambient, ranging between 20.4 and 21.8 percent by volume over the second half of 2024.

4.3.3 Barometric Pressure Conditions

LFG concentrations and pressures are influenced by fluctuating barometric pressure. Relative to time, the highest LFG concentrations and depressed oxygen concentrations tend to occur shortly after a significantly falling barometric trend. This is due to the effects of the landfill pressures trying to stabilize with the fluctuation in atmospheric (barometric) pressure and the associated lag time for stabilization.

To assist in interpreting data, barometric conditions were recorded prior to and during LFG monitoring. Atmospheric trends recorded during the September and December 2024 LFG monitoring events are presented on Figures 8A and 8B, respectively. LFG probe measurements recorded during September event were obtained during a period of slightly falling barometric pressure. The December measurements were recorded during a period of steady barometric pressure conditions.

5.0 SUMMARY AND CONCLUSIONS

Overall groundwater quality results, LFG concentrations and leachate production rates reported for the OVSL during the 2024 compliance period are consistent with recent past results and continue to indicate the ongoing stabilization of the closed landfill and an overall improvement of environmental site conditions. Groundwater quality data collected over the past decade indicate that historically detected contaminants in groundwater are generally declining, with fewer exceedances of site-specific MTCA cleanup levels reported at POC monitoring wells and downgradient of the site.

Leachate generation volumes for 2024 at the facility were lower than those reported during the preceding year, and continued to remain significantly below pre-2015 levels, demonstrating the ongoing effectiveness of the improved engineering controls being implemented at the facility. The OVSL continued to explore opportunities to minimize any remaining above ground contribution to leachate volumes to maintain the long-term trend of diminishing leachate generation.

LFG production at the OVSL continues to gradually decline, with flow rates decreasing to several orders of magnitude below their modeled production high as the natural depletion of methane and other landfill gases continues at the site. It is anticipated that on-going operations and maintenance (O&M) efforts at the OVSL will continue to show improving environmental conditions and increased landfill stability.

5.1 GROUNDWATER

5.1.1 Groundwater Quality

Consistent with past monitoring results, a single VOC (vinyl chloride) and several general chemistry parameters, inorganic analytes, and field parameters continued to be reported at elevated concentrations at select monitoring wells adjacent to the OVSL. During 2024, site specific MTCA cleanup levels, groundwater protection standards and/or federal MCLs were exceeded for seven analytes: pH, specific conductance, total arsenic, total iron, total manganese, ammonia and vinyl chloride. These results remain consistent with those reported over the past several years, with overall trends showing that the majority of analyte concentrations are stable or decreasing. In addition, the primary federal MCL (2 µg/L) for vinyl chloride, the principal contaminant of concern (COC) at the OVSL, has not been exceeded at the facility since 2006.

During 2024, 95% UCL MTCA cleanup goal exceedances were reported at least once in four OVSL Compliance wells and in four Downgradient monitoring wells. With the exception of vinyl chloride in MW-32, parameters that exceeded the site specific MTCA cleanup goals in these wells were limited to ammonia, arsenic, iron, and manganese.

The majority of parameter exceedances continue to be reported in Compliance wells MW-42 and Downgradient well MW-32. However, an analysis of the 95% UCL for the ten site COCs relative to their respective cleanup levels supports the ongoing overall improvement in groundwater quality. With the exception of arsenic in MW-33C, no statistically significant increasing trends were calculated for the OVSL COCs in these wells over the current reporting year.

Prediction limits for inorganic parameters were exceeded at least once in eleven Compliance and Downgradient wells during 2024. Significantly increasing concentrations trends (using Sen's Non-Parametric Test for Trend) were reported for at least one inorganic parameter at 8 well locations, while significantly decreasing trends occurred at 12 well locations. Significantly decreasing

concentration trends continue to be reported for trichloroethene (MW-19C) and vinyl chloride in wells MW-19C, MW-32 and MW-34C.

The groundwater analytical data, statistical and graphical analyses, and comparison to water quality standards though 2024 continue to indicate similar, but improving conditions to those previously documented at the OVSL, with on-going evidence that natural attenuation continues to be improving the groundwater quality at the site.

5.1.2 Evidence of Natural Attenuation

Natural attention includes a variety of physical, chemical and biological processes that act without human intervention to reduce mass, toxicity, mobility, volume, or concentration of contaminants. Examples of these processes can include biodegradation, dispersion, dilution, sorption, volatilization, chemical transformation, and contaminant destruction. At solid waste landfills, natural attenuation processes are largely controlled by and associated with changes in groundwater chemistry. Typically, for landfills, pathways for aerating subsurface soils and groundwater are impeded, resulting in increasingly anaerobic and reducing conditions. In turn, these conditions promote microbial communities that can degrade organic compounds resulting in the dechlorination of solvents and their daughter products.

Gradual, yet consistent, improvements to water quality continue to be observed at the OVSL. This is illustrated by the overall stability and/or decreasing trends observed in the calculated 95% UCLs for site COCs and through their improving comparison with their respective site-specific MTCA cleanup levels. Overall, these observations continue to support the conclusion that natural attention is occurring as expected at the OVSL. As has been previously noted, significant areas across and immediately downgradient of the OVSL waste cells exhibit a pronounced anaerobic and/or reducing geochemistry. As a result, dissolved oxygen (DO) levels are significantly reduced in the groundwater immediately beneath and downgradient of the unlined Barney White waste cell. The presence of organic rich wetlands northwest of this waste cell is also suspected be contributing to the locally anoxic groundwater conditions.

These geochemical conditions remain prevalent at well locations showing the most elevated contaminant concentrations (e.g., MW-19C, MW-34C and MW-42 with elevated total manganese, vinyl chloride and other redox sensitive parameters). The lingering presence of vinyl chloride beneath the west-central portions of the site is consistent with the ongoing reductive dechlorination of parent compounds (PCE, TCE and DCE isomers). However, further downgradient, along the far western margins of the site (MW-33A and MW-36A) groundwater geochemistry becomes less reductive and more oxidative, which in turn is increasingly supportive of the degradation of vinyl chloride. This has been repeatedly demonstrated by the absence of VOCs, including vinyl chloride, in downgradient OVSL wells MW-29A, MW-33A, MW-33C and MW-36A.

The number of decreasing parameter trends reported for the OVSL provides additional evidence supporting this ongoing and expected natural attenuation. Given the current data and historical trends, natural attenuation at the OVSL can be anticipated to continue throughout the post-closure period and beyond.

5.2 LEACHATE

Comparisons between the 2024 groundwater and L-INF field and water quality results continue to demonstrate that parameters measured and analyzed in the L-INF leachate are elevated relative to the local groundwater. These parameters include total/bicarbonate alkalinity, ammonia, calcium, chloride, iron, manganese, magnesium, sodium, COD and TOC. Low, but detectable, levels of tert butyl alcohol and tetrahydrofuran were reported in the November 2024 sample. Appendix III parameters reported in the L-INF sample included low level detections of cyanide, total nickel and BOD.

The OBWL-TD sample continues to report generally lower leachate indicator results than the landfill influent Appendix III parameters were not detected in the December 2024 sample obtained from this location. The LP-LCD monitoring station was sampled during both semi-annual events. These samples continued to report elevated specific conductivity, alkalinity, calcium, chloride, sodium, sulfate, TDS and TOC compared to the groundwater results.

A total of 748,582 gallons of leachate were generated from the OVSL over the course of the 2024 compliance year. This volume is lower than that observed in the preceding year (929,225 gallons). The 2024 leachate generation volume also remains appreciably less than earlier annualized totals (ranging to over 2 million gallons) reported prior to the implementation of site maintenance and infrastructure improvements initiated in 2013. Liquid volumes recorded at the LP-LCD monitoring station for the leachate pond leakage collection system indicate that approximately 2,205 gallons of liquid were captured and returned to the pond during 2024. The LP-LCD generation volume remains relatively low, and continues to suggest that leakage through the leachate pond liner system is well controlled.

5.3 LANDFILL GAS

Methane was not detected above state regulatory standards in any of the LFG monitoring probes or in any of the landfill structures during 2024. Perimeter LFG probe monitoring results continue to demonstrate that the facility is in compliance with respect to subsurface landfill soil gas migration criteria (less than 5% by volume of methane in soil at the property boundary). Methane was not detected in any of the onsite structures that were monitored over the reporting period.

LFG extraction rates and major gas component results over the 2024 operational period are summarized in Appendix E. An estimated 69.52 million cubic feet of LFG were collected at the OVSL flare inlet over 2024, with an annualized average concentration of 22.27 percent methane (by volume). Improvements (discussed above and in previous reports) to the OVSL LFG extraction system and associated infrastructure have reduced and/or stabilized LFG levels at both perimeter soil gas probe and structural monitoring locations. The LFG collection system will continue to be monitored and optimized to enhance its performance.

6.0 REFERENCES

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Tables

Table 1. Groundwater Well Construction Details
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well ID	Northing	Easting	Measuring Point Elevation (ft. MSL)	Well Depth (ft. bgs)	Top of Screen Elevation (ft. MSL)	Bottom of Screen Elevation (ft. MSL)	Screen Length (ft.)
Water Quality Monitoring Wells							
MW-13A	188233.33	1159346.53	288.74	155	141	131	10
MW-13B	188223.33	1159346.53	288.66	260	36	26	10
MW-15R	189905.03	1157711.29	180.66	33	157	147	10
MW-16	190804.53	1159350.37	240.01	70	178	168	10
MW-19C	188520.03	1157025.96	196.96	90	111	106	5
MW-29A	188570.27	1156121.6	160.21	25	140	135	5
MW-32	188908.88	1156388.52	152.36	21	135	130	5
MW-33A	189304.18	1155636.34	147.68	20	140	125	15
MW-33C	189284.18	1155636.34	147.59	65	89	79	10
MW-34A	189391.16	1156929.63	197.95	48	168	148	20
MW-34C	189391.16	1156943.77	199.89	98	114	99	15
MW-35	188917.42	1159762.03	302.69	149	161	151	10
MW-36A	189754.10	1156935.2	192.68	50	147	142	5
MW-39	190362.60	1158325.32	189.92	25	174	164	10
MW-42	188690.50	1156617.9	187.43	33	159	154	5
MW-43	188407.60	1156636.6	186.42	30	161	156	5
Water Level Measurement Only Wells							
MW-2B1	189232.23	1157544.63	172.94	18	163	153	10
MW-2A1	189242.23	1157544.63	174.22	38	143	133	10
MW-4	188298.52	1156887.57	175.78	34	149	139	10
MW-10	188737.81	1156265.18	155.12	17.5	142	137	5
MW-20	188850.01	1157062.68	198.41	49	165	150	15
MW-21	188737.81	1156245.18	156.03	15	150	140	10
MW-23A	189485.84	1158085.12	182.28	23	172	157	15
MW-24	189795.14	1158383.22	208.24	42	176	161	15
MW-29C	188479.36	1156072.97	156.92	50	111	106	5
MW-30A	188623.50	1155612.45	166.74	35	136	131	5
MW-36	189751.87	1156955.77	189.39	100	99	89	10
MW-41A	188106.83	1157522.05	199.43	35.7	168	163	5
MW-41B	188104.34	1157530.68	200.64	79	126	121	5
MW-41C	188101.13	1157541.93	199.67	117	87	82	5

Table 2. Summary of Analytical Parameters
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well	Volatile Organic Compounds		Geochemical Indicator Parameters**	Leachate Indicator Parameters			Field Parameters	Metals* and Nitrate		Appendix III Parameters [c]
	WAC 173-351 Appendix I	Vinyl Chloride (SIM)	Cl, Fe, Mn, SO_4, Ca, Mg, Na, K, Alkalinity, Bicarbonate Alkalinity	Ammonia	TOC, TDS	BOD, COD	Dissolved Oxygen, ORP, pH, Specific Conductivity, Temperature, Turbidity	As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, V, Zn, NO_3	TSS	Cyanide, Hg, PCBs, Pest/Herb, Sn, Sulfide, SVOCs, VOCs
Compliance Monitoring Locations										
MW-15R	✓	✓	✓	✓	✓		✓	✓	✓	
MW-34A										
MW-34C										
MW-39										
MW-42										
MW-43										
Performance Monitoring Locations										
MW-19C	✓	✓	✓	✓	✓		✓	✓	✓	✓
Downgradient Monitoring Locations										
MW-29A	✓	✓	✓	✓	✓		✓	✓	✓	✓
MW-32										
MW-33A										
MW-33C										
MW-36A										
Upgradient Monitoring Locations										
MW-13A[a]	✓	✓	✓	✓	✓		✓	✓	✓	
MW-13B[a]										
MW-35[a]										
MW-16[a]										
Leachate Monitoring Locations										
L-INF [b]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LP-LCD	✓	✓	✓	✓	✓	✓	✓	✓		
OBWL-TD [b]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes

✓ Indicates wells were sampled for selected parameters.

* The Appendix I metals in the groundwater samples were analyzed for only total metals fractions.

** Only Iron and Manganese were analyzed for both total and dissolved fractions.

[a] Water quality monitoring at the Upgradient wells was limited to Appendix II field parameters during the Semi-annual # 1 event (in May).

[b] Sampled annually (November 2024).

[c] Appendix III parameters were run for select groundwater samples (MW-19C, MW-32, MW-34C, MW-42 and MW-15R) and leachate samples (L-INF and OBWL-TD) during the 2024 Semi-annual # 2 event (in November).

Table 3. Groundwater Elevations
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Location ID	Measuring Point Elevation (ft. MSL)	Semi-Annual #1 May 2024		Semi-Annual #2 November 2024	
		DTW	WLE	DTW	WLE
Water Quality Monitoring Wells					
MW-13A	288.74	46.86	241.88	48.40	240.34
MW-13B	288.66	60.47	228.19	62.21	226.45
MW-15R	180.66	18.86	161.80	19.21	161.45
MW-16	240.01	56.17	183.84	61.72	178.29
MW-19C	196.96	33.55	163.41	34.65	162.31
MW-29A	160.21	13.72	146.49	12.69	147.52
MW-32	152.36	1.51	150.85	1.51	150.85
MW-33A	147.68	5.34	142.34	3.93	143.75
MW-33C	147.59	2.11	145.48	1.69	145.90
MW-34A	197.95	39.79	158.16	40.40	157.55
MW-34C	199.89	49.41	150.48	42.22	157.67
MW-35	302.69	72.20	230.49	73.31	229.38
MW-36A	192.68	31.26	161.42	31.70	160.98
MW-39	189.92	20.33	169.59	21.04	168.88
MW-42	187.43	27.91	159.52	27.16	160.27
MW-43	186.42	25.06	161.36	20.41	166.01
Water Level Measurement Only Wells					
MW-2A1	174.22	7.81	166.41	5.63	168.59
MW-2B1	172.94	6.73	166.21	7.38	165.56
MW-4	175.78	14.81	160.97	12.44	163.34
MW-10	155.12	4.27	150.85	2.95	152.17
MW-20	198.41	35.75	162.66	36.17	162.24
MW-21	156.03	5.49	150.54	4.25	151.78
MW-23A	182.28	13.73	168.55	--	--
MW-24	208.25	31.24	177.01	34.11	174.14
MW-29C[1]	156.92	12.07	144.85	--	--
MW-30A	166.74	24.28	142.46	34.67	132.07
MW-36	189.39	31.34	158.05	31.80	157.59
MW-41A[2]	199.43	23.96	175.47	27.31	172.12
MW-41B	200.64	24.25	176.39	27.58	173.06
MW-41C	199.67	25.81	173.86	28.66	171.01

Notes:

Elevations, ft. MSL

WLE = Water level elevation

DTW = Depth to Water (ft)

Table 4A. Detections and Field Measurements - Compliance Monitoring Wells
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-15R 5/14/2024	MW-15R 11/14/2024	MW-34A 5/14/2024	MW-34A 11/13/2024	MW-34C 5/14/2024	MW-34C 11/13/2024	MW-39 5/15/2024	MW-39 11/14/2024	MW-42 5/14/2024	MW-42 11/13/2024	MW-43 5/14/2024	MW-43 11/13/2024
Field Parameter													
Dissolved Oxygen	mg/L	0.6	0.8	5.4	0.7	0.2	0.7	0.1	0.5	0.7	0.4	3	3.5
Oxidation Reduction Potential	mV	308.7	20.7	312.7	7.5	263.1	-25.4	45.2	-60.8	-93.7	-117.9	179.2	126.3
pH	SU	6.39	6.36	5.81	6.14	6.52	6.45	5.87	6.03	6.37	6.38	5.73	5.58
Specific Conductivity	umhos/cm	154	159	132	206	184	186	300	271	462	451	45	54
Temperature	deg C	9.9	10.0	11.4	11.6	12.5	12.4	9.9	11.7	12.3	11.9	9.5	11.2
Turbidity	NTU	3.1	3.0	2.5	3.1	28.5	247.9	11.9	3.8	22.5	65	5.1	4.9
General Chemistry													
Alkalinity, Bicarbonate (As CaCO3)	mg/L	72	73	62	91	91	86	83	84	190	180	15	21
Alkalinity, Total (As CaCO3)	mg/L	72	73	62	91	91	86	83	84	190	180	15	21
Ammonia (as N)	mg/L	0.031	--	--	--	--	0.042	0.45	0.42	3.0	2.5	0.044	--
Calcium, Dissolved	mg/L	13	14	12	19	17	18	14	14	38	40	4.0	4.8
Chloride	mg/L	--	3.0	--	3.8	3.1	3.5	6.1	5.1	13	8.9	--	--
Iron, Dissolved	mg/L	--	--	--	--	0.64	0.56	40	39	24	23	--	--
Iron, Total	mg/L	0.065	--	--	--	11	38	40	35	23	20	0.47	0.13
Magnesium, Dissolved	mg/L	8.7	8.9	5.3	9.5	7.6	7.8	8.7	8.6	13	14	1.7	2.0
Manganese, Dissolved	mg/L	0.0023	0.0025	--	--	0.37	0.38	0.48	0.51	3.4	3.4	0.003	0.0035
Manganese, Total	mg/L	0.0033	0.0026	--	0.0014	1.8	37	0.51	0.45	3.4	3.0	0.029	0.0091
Nitrate (As N)	mg/L	0.13	0.15	--	0.89	--	--	--	--	--	--	0.74	0.78
Potassium, Dissolved	mg/L	--	1.0	--	--	--	1.2	--	--	7.7	8.6	--	--
Sodium, Dissolved	mg/L	5.2	5.2	7.8	9.7	9.6	9.5	9.3	9.2	17	17	1.8	2.8
Sulfate	mg/L	7.0	5.4	--	--	--	--	--	--	8.7	7.3	--	--
Total Dissolved Solids (TDS)	mg/L	93	120	99	140	150	150	110	130	210	230	29	39
Total Organic Carbon (TOC)	mg/L	--	--	--	1.6	--	1.8	2.9	2.8	6.7	5.6	1.5	1.8
Total Suspended Solids (TSS)	mg/L	--	--	--	--	72	48	52	15	36	28 H	--	--
Metals													
Antimony, Total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic, Total	ug/L	0.216	0.238	0.438	3.0	5.09	13.4	2.32	1.23	1.52	2.5	0.041	0.0536
Barium, Total	ug/L	3.5	4.6	3.3	4.4	51	340	14	14	88	81	2.8	3.8
Chromium, Total	ug/L	--	--	--	--	--	0.49	--	--	--	--	--	--
Cobalt, Total	ug/L	--	--	4.8	--	--	25	--	7.9	--	--	--	--
Copper, Total	ug/L	--	--	--	--	--	4.4	7.3	--	--	--	--	--
Lead, Total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Nickel, Total	ug/L	--	--	--	--	--	5.0	--	--	--	--	--	--
Selenium, Total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium, Total	ug/L	--	2.9	--	4.1	--	9.3	--	--	--	--	--	--
Zinc, Total	ug/L	3.4	--	4.1	--	--	10	--	--	--	--	--	--
Volatile Organic Compounds													
Vinyl chloride	ug/L	--	--	--	--	--	--	--	--	--	0.033	--	--

Notes:

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

$CaCO_3$ = Calcium carbonate
deg-C = Degrees Celcius
J = Concentration is estimated
µmhos/cm = Microhms per centimeter
µg/L = Micrograms per liter
mg/L = Miligrams per liter
mV = Milivolts
N = Nitrogen
NTU = Nephelometric turbidity units
SU = Standard units
-- = Parameter not detected above the project-specific reporting limit

Table 4B. Detections and Field Measurements - Performance Monitoring Wells
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-19C 5/14/2024	MW-19C 11/13/2024
Field Parameter			
Dissolved Oxygen	mg/L	0.9	1.1
Oxidative Reduction Potential	mV	15.5	302.9
pH	SU	6.67	6.30
Specific Conductivity	umhos/cm	143	179
Temperature	deg C	11.3	10.2
Turbidity	NTU	2.9	3.6
General Chemistry			
Alkalinity, Bicarbonate (As CaCO3)	mg/L	70	72
Alkalinity, Total (As CaCO3)	mg/L	70	72
Ammonia (as N)	mg/L	0.4	0.43
Calcium, Dissolved	mg/L	13	14
Chloride	mg/L	--	--
Iron, Dissolved	mg/L	0.13	0.12
Iron, Total	mg/L	0.21	0.15
Magnesium, Dissolved	mg/L	6.8	7.5
Manganese, Dissolved	mg/L	0.89	1.0
Manganese, Total	mg/L	0.98	1.0
Nitrate (As N)	mg/L	--	--
Potassium, Dissolved	mg/L	1.1	1.3
Sodium, Dissolved	mg/L	5.4	5.7
Sulfate	mg/L	--	--
Total Dissolved Solids (TDS)	mg/L	91	100
Total Organic Carbon (TOC)	mg/L	--	--
Total Suspended Solids (TSS)	mg/L	--	--
Metals			
Antimony, Total	ug/L	--	--
Arsenic, Total	ug/L	2.07	2.08
Barium, Total	ug/L	3.5	3.3
Chromium, Total	ug/L	--	--
Cobalt, Total	ug/L	--	--
Copper, Total	ug/L	--	--
Lead, Total	ug/L	--	--
Nickel, Total	ug/L	--	--
Selenium, Total	ug/L	--	--
Vanadium, Total	ug/L	--	--
Zinc, Total	ug/L	--	--
Volatile Organic Compounds			
Vinyl chloride	ug/L	--	--

Notes:

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

$CaCO_3$ = Calcium carbonate

deg-C = Degrees Celcius

B = Analyte detected in sample blank

J = Concentration is estimated

µmhos/cm = Microhms per centimeter

µg/L = Micrograms per liter

mV = Milivolts

N = Nitrogen

NTU = Nephelometric turbidity units

SU = Standard units

mg/L = Miligrams per liter

-- = Parameter not detected above the project-specific reporting limit

Table 4C. Detections and Field Measurements - Downgradient Monitoring Wells
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-29A 5/14/2024	MW-29A 11/13/2024	MW-32 5/14/2024	MW-32 11/13/2024	MW-33A 5/15/2024	MW-33A 11/14/2024	MW-33C 5/15/2024	MW-33C 11/14/2024	MW-36A 5/14/2024	MW-36A 11/14/2024
Field Parameter											
Dissolved Oxygen	mg/L	1.0	0.9	1.1	0.8	0.9	1.2	0.8	0.9	1.3	4.0
Oxidative Reduction Potential	mV	28.4	263.8	-20.8	287.6	-56.7	304.1	-47.3	286.1	293	105.7
pH	SU	5.90	5.98	6.70	6.56	6.67	6.02	7.73	7.18	5.89	5.92
Specific Conductivity	umhos/cm	94	103	239	308	133	151	156	216	135	125
Temperature	deg C	9.2	11	11.9	11.6	9.6	9.7	10.3	9.1	9.6	9.6
Turbidity	NTU	3.2	4.0	2.5	3.4	12	9.1	4.0	7.1	2.7	2.7
General Chemistry											
Alkalinity, Bicarbonate (As CaCO3)	mg/L	42	36	110	140	58	48	67	70	69	59
Alkalinity, Total (As CaCO3)	mg/L	42	36	110	140	58	48	67	70	69	59
Ammonia (as N)	mg/L	0.065	--	0.051	0.15	0.085	0.049	--	--	0.041	--
Calcium, Dissolved	mg/L	6.4	6.2	21	30	12	11	16	18	10	10
Chloride	mg/L	--	--	6.5	8.7	--	--	3.3	3.2	--	--
Iron, Dissolved	mg/L	4.1	3.7	0.46	0.68	2.8	0.13	--	--	--	--
Iron, Total	mg/L	4.6	3.6	0.52	0.69	7.1	1.3	0.46	0.26	--	--
Magnesium, Dissolved	mg/L	3.9	3.8	11	15	6.0	4.9	6.8	7.3	7.0	6.9
Manganese, Dissolved	mg/L	1.3	1.2	1.6	2.2	0.053	0.03	0.13	0.14	--	--
Manganese, Total	mg/L	1.3	1.2	1.6	2.1	0.028	0.038	0.28	0.22	--	--
Nitrate (As N)	mg/L	--	--	--	--	--	0.22	--	--	0.54	0.46
Potassium, Dissolved	mg/L	--	--	--	1.2	--	--	1.2	1.4	--	--
Sodium, Dissolved	mg/L	3.2	3.5	10	11	3.7	3.2	3.9	4.1	7.1	6.4
Sulfate	mg/L	--	--	9.2	13	--	--	7.8	8.6	--	--
Total Dissolved Solids (TDS)	mg/L	53	56	160	210	85	81	96	100	97	100
Total Organic Carbon (TOC)	mg/L	2.0	--	1.3	1.6	2.6	3.1	--	--	1.0	1.0
Total Suspended Solids (TSS)	mg/L	--	--	--	--	14 H	--	15	4.4	--	--
Metals											
Antimony, Total	ug/L	--	--	--	--	--	--	--	--	--	--
Arsenic, Total	ug/L	1.73	2.2	9.27	9.3	0.76	0.125	2.74	2.7	0.562	0.499
Barium, Total	ug/L	4.9	5.2	3.6	5.4	4.0	2.3	5.8	5.0	1.8	2.1
Chromium, Total	ug/L	--	--	--	--	--	--	--	--	--	--
Cobalt, Total	ug/L	--	--	--	--	--	--	--	--	8.5	--
Copper, Total	ug/L	--	--	--	--	--	--	--	--	--	--
Lead, Total	ug/L	--	--	--	--	--	--	--	--	--	--
Nickel, Total	ug/L	--	--	--	--	--	--	--	--	--	--
Selenium, Total	ug/L	--	--	--	--	--	--	--	--	--	--
Vanadium, Total	ug/L	--	--	--	--	--	--	--	--	1.6	--
Zinc, Total	ug/L	--	--	--	--	8.6	--	--	--	2.7	--
Volatile Organic Compounds											
Vinyl chloride	ug/L	--	--	0.2	--	--	--	--	--	--	--

Notes:
Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

$CaCO_3$ = Calcium carbonate
deg-C = Degrees Celcius
J = Concentration is estimated
µmhos/cm = Microhms per centimeter
µg/L = Micrograms per liter
mg/L = Miligrams per liter
mV = Milivolts
N = Nitrogen
NTU = Nephelometric turbidity units
SU = Standard units
-- = Parameter not detected above the project-specific reporting limit

Table 4D. Detections and Field Measurements - Upgradient Monitoring Wells
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-13A 5/14/2024	MW-13A 11/14/2024	MW-13B 5/14/2024	MW-13B 11/14/2024	MW-16 5/14/2024	MW-16 11/14/2024	MW-35 5/14/2024	MW-35 11/14/2024
Field Parameter									
Dissolved Oxygen	mg/L	6.9	6.8	7.4	7.4	8.0	7.8	7.4	6.9
Oxidative Reduction Potential	mV	286.1	348.5	291.9	345.0	205.8	377.6	155.3	356.6
pH	SU	6.85	6.57	7.64	7.21	6.32	6.11	7.20	7.03
Specific Conductivity	umhos/cm	170	239	169	236	103	189	161	226
Temperature	deg C	9.6	9.1	10.0	9.2	10.4	9.2	11.9	10.1
Turbidity	NTU	2.8	3.7	3.0	4.2	2.9	4.5	2.8	5.0
General Chemistry									
Alkalinity, Bicarbonate (As CaCO3)	mg/L	NA	87	NA	87	NA	65	NA	81
Alkalinity, Total (As CaCO3)	mg/L	NA	87	NA	87	NA	65	NA	81
Ammonia (as N)	mg/L	NA	--	NA	--	NA	--	NA	--
Calcium, Dissolved	mg/L	NA	17	NA	18	NA	13	NA	16
Chloride	mg/L	NA	--	NA	6.3	NA	--	NA	--
Iron, Dissolved	mg/L	NA	--	NA	--	NA	--	NA	--
Iron, Total	mg/L	NA	--	NA	--	NA	--	NA	--
Magnesium, Dissolved	mg/L	NA	9.6	NA	8.9	NA	7.1	NA	9.4
Manganese, Dissolved	mg/L	NA	--	NA	--	NA	--	NA	--
Manganese, Total	mg/L	NA	--	NA	--	NA	--	NA	--
Nitrate (As N)	mg/L	NA	0.55	NA	0.45	NA	0.13	NA	0.43
Potassium, Dissolved	mg/L	NA	--	NA	--	NA	1.0	NA	--
Sodium, Dissolved	mg/L	NA	5.3	NA	5.2	NA	5.4	NA	5.3
Sulfate	mg/L	NA	--	NA	--	NA	--	NA	--
Total Dissolved Solids (TDS)	mg/L	NA	110	NA	110	NA	100	NA	100
Total Organic Carbon (TOC)	mg/L	NA	--	NA	--	NA	--	NA	--
Total Suspended Solids (TSS)	mg/L	NA	--	NA	--	NA	--	NA	--
Metals									
Arsenic, Total	ug/L	NA	0.208	NA	0.33	NA	0.381	NA	0.115
Barium, Total	ug/L	NA	3.0	NA	3.6	NA	3.9	NA	3.2
Beryllium, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Chromium, Total	ug/L	NA	--	NA	--	NA	8.1	NA	--
Cobalt, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Copper, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Lead, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Nickel, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Selenium, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Silver, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Thallium, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Vanadium, Total	ug/L	NA	3.4	NA	5.3	NA	3.2	NA	4.1
Zinc, Total	ug/L	NA	--	NA	--	NA	--	NA	--
Volatile Organic Compounds									
Vinyl Chloride	ug/L	NA	--	NA	--	NA	--	NA	--

Notes:

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

* = Only field parameters analyzed at upgradient wells during Semi-annual #1 event

$CaCO_3$ = Calcium carbonate

deg-C = Degrees Celcius

J = Conentration is estimated

µmhos/cm = Microhms per centimeter

µg/L = Micrograms per liter

mg/L = Miligrams per liter

mV = Milivolts

N = Nitrogen

NTU = Nephelometric turbidity units

SU = Standard units

-- = Parameter not detected above the project-specific reporting limit

Table 4E. Detections and Field Measurements - Leachate and Leak Detection Locations
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	L-INF 12/2/2024	OBWL-TD 12/9/2025	LP-LCD 5/15/2024	LP-LCD 11/19/2024
Field Parameter					
Dissolved Oxygen	mg/L	2.9	7.2	7.8	9.08
Oxidative Reduction Potential	mV	91.9	172.8	220.1	95.6
pH	SU	7.13	6.26	6.83	7.26
Specific Conductivity	umhos/cm	6,929	150.9	3,414	3597
Temperature	Deg C	11.1	7.1	15.8	5.6
Turbidity	NTU	22	14.2	0.3	1.48
General Chemistry					
Alkalinity, Bicarbonate (As CaCO3)	mg/L	1,500	47	890	950
Alkalinity, Total (As CaCO3)	mg/L	1,500	47	890	950
Ammonia (as N)	mg/L	230	0.39	5.7	5.7
Calcium, Dissolved	mg/L	130	18	78	69
Chemical Oxygen Demand	mg/L	470	11	120	170
Chloride	mg/L	1,200	--	500	640
Iron, Dissolved	mg/L	0.69	0.07	0.14	0.1
Iron, Total	mg/L	2.1	0.58	0.26	0.10
Magnesium, Dissolved	mg/L	82	3.1	47	42
Manganese, Dissolved	mg/L	1.9	0.029	0.66	0.57
Manganese, Total	mg/L	1.9	0.032	0.73	0.53
Nitrate (As N)	mg/L	13	0.48	1.6	2.6
Potassium, Dissolved	mg/L	150	1.7	79	91
Sodium, Dissolved	mg/L	860	5.1	650	750
Sulfate	mg/L	240	25	140	140
Total Dissolved Solids (TDS)	mg/L	3,400	84	2300	2300
Total Organic Carbon (TOC)	mg/L	160	2.2	55	54
Metals					
Antimony, Total	ug/L	1.2	1.3	1.9	1.7
Arsenic, Total	ug/L	5.3	0.635	17	18.6
Barium, Total	ug/L	220	9.2	130	110
Chromium, Total	ug/L	8.1	--	0.48	3.0
Cobalt, Total	ug/L	27	--	13	13
Copper, Total	ug/L	23	4.8	9.6	21
Lead, Total	ug/L	--	--	3.4	2.0
Nickel, Total	ug/L	120	--	99	100
Vanadium, Total	ug/L	12	--	6.8	5.9
Zinc, Total	ug/L	270	65	28	27
Volatile Organic Compounds					
Butyl alcohol, tert-	ug/L	220	--	78	--
Tetrahydrofuran	ug/L	58	--	12	--

Notes:

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year.

* = Not analyzed

$CaCO_3$ = Calcium carbonate

deg-C = Degrees Celcius

H = Analyzed beyond hold time

J = Concentration is estimated

mg/L = Miligrams per liter

µg/L = Micrograms per liter

µmhos/cm = Microhms per centimeter

mV = Milivolts

N = Nitrogen

NTU = Nephelometric turbidity units

SU = Standard units

-- = Parameter not detected above the project-specific reporting limit

Table 4F. Detected Analytical Results for Appendix III Parameters
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-15R 11/14/2024	MW-19C 11/13/2024	MW-32 11/13/2024	MW-34C 11/13/2024	MW-42 11/13/2024	L-INF 12/9/2024	OBWL-TD 12/9/2024
Volatile Organic Compounds								
Butyl alcohol, tert-	ug/L	--	--	--	--	--	220	--
tetrahydrofuran	ug/L	--	--	--	--	--	58	--
Trichloroethene	ug/L	--	--	--	--	--	--	--
Vinyl chloride	ug/L	--	--	--	--	0.033	--	--
Additional Parameters								
Cyanide	mg/L	--	--	--	--	--	0.015	--
Biochemical Oxygen Demand	mg/L	--	--	--	--	--	40	--
2,4,5-TP (Silvex)	ug/L	--	--	--	--	--	--	--
Nickel, Total	ug/L	--	--	--	--	--	130	--

Notes:

Results presented are detections for the Appendix III parameters. Analytes by Appendix I or II are presented on Table 4.

2,4,5-TP (Silvex): Parameter included in method 8151A-Herbicides

mg/L = Miligrams per liter

µg/L = Micrograms per liter

H = Parameter analyzed outside of specified holding time

J = Concentration is estimated

-- = Parameter not detected above the project-specific reporting limit

Table 5. 2024 Groundwater and Leachate VOC Detections
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Event	Well Type	Well	Result
Butyl alcohol, tert-	Q224	System	LP-LCD	78
	Q424	System	L-INF	220
Tetrahydrofuran	Q224	System	LP-LCD	12
	Q424	System	L-INF	58
Vinyl Chloride	Q224	Downgradient	MW-32	0.20
	Q424	Compliance	MW-42	0.033

Notes:
All VOCs measured in micrograms per liter (ug/L)

Table 6A. Summary of Significant Parameter Trends by Well Type
2024 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Significant VOC Trends		Significant Inorganic Parameter Trends	
Increasing	**Decreasing**	**Increasing**	**Decreasing**
Upgradient Wells			
None	None	Alkalinity, Bicarbonate Alkalinity, Total Nitrate (MW-35 only) Specific Conductivity Temperature (MW-35 only)	Magnesium, Dissolved Nitrate Sulfate
Performance Wells			
None	Trichloroethene Vinyl Chloride	None	Arsenic, Total Ammonia (as N) Chloride Sodium, Dissolved Sulfate
Compliance Wells			
None	Vinyl Chloride	Chloride (MW-39 only) Magnesium, Dissolved (MW-39 only) pH Potassium, Dissolved (MW-42 only) Specific Conductivity (MW-39 only) Temperature	Alkalinity, Bicarbonate Alkalinity, Total Ammonia (as N) Barium, Total Calcium, Dissolved Chloride Magnesium, Dissolved Manganese, Total Sodium, Dissolved Specific Conductivity Sulfate Total Dissolved Solids Total Organic Carbon (MW-34C only)
Downgradient Wells			
None	Vinyl Chloride	Arsenic, Total (MW-33C ony) Specific Conductivity (33C only) Sulfate (MW-33A only)	Alkalinity, Bicarbonate Alkalinity, Total Ammonia (as N) Barium, Total Calcium, Dissolved Chloride Magnesium, Dissolved Sodium, Dissolved Specific Conductivity Sulfate Total Dissolved Solids

Table 6B. Summary of Trends in Groundwater (2005 - 2024)
2024 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Results of Sen's Non-Parametric Test for Trend

Trend Test Period: January 2005 through December 2024

Trend Test Wells:

- Compliance Wells: MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43
- Performance Wells: MW-19C
- Downgradient Wells: MW-29A, MW-32, MW-33A, MW-33C, MW-36A
- Upgradient Wells* MW-13A, MW-13B, MW-16, MW-35

*trend status shown is based on most recent event with reported data, as shown

Trend Test A *= all organic parameters listed in Appendix I and Appendix II of WAC 173-351-990 that have been detected at least once in at least one of 16 wells comprising the network of 1) compliance, 2) performance, 3) downgradient, and 4) upgradient site monitoring wells, during the trend test period. This includes the following constituents:*

	Significant Increasing Trends	Significant Decreasing Trends
1,2-Dichloroethene (total)	None	None
1,2-Dichlorobenzene	None	None
1,4-Dichlorobenzene	None	None
2-Butanone (MEK)	None	None
Acetone	None	None
Carbon Disulfide	None	None
Chlorobenzene	None	None
Chlorodifluoromethane	None	None
Chloroform	None	None
Chloromethane	None	None
cis-1,2-dichloroethene	None	None
Dichlorodifluoromethane	None	None
Dichlorofluoromethane	None	None
Ethyl Ether	None	None
Methylene Chloride	None	None
Naphthalene	None	None
n-Butyl Alcohol	None	None
tert-Butyl Alcohol	None	None
Tetrahydrofuran	None	None
trans-1,2-Dichloroethene	None	None
Trichloroethene	None	MW-19C (graph 325)
Vinyl Chloride	None	MW-19C (graph 341) MW-32 (graph 343) MW-34C (graph 347)

Table 6B. Summary of Trends in Groundwater (2005 - 2024)
2024 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Trend Test B *= all metals and groundwater quality parameters listed in Appendix I and Appendix II of WAC (173-351-990)*		
	Significant Increasing Trends	Significant Decreasing Trends
Alkalinity, bicarbonate (as CaCO3)	MW-13B (graph 2) MW-35 (graph 12)	MW-15R (graph 3) MW-34A (graph 10) MW-34C (graph 11) MW-36A (graph 13) MW-42 (graph 15)
Alkalinity, total (as CaCO3)	MW-13B (graph 18) MW-35 (graph 28)	MW-15R (graph 19) MW-34A (graph 26) MW-34C (graph 27) MW-36A (graph 29) MW-42 (graph 31)
Ammonia (as N)	None	MW-19C (graph 37) MW-29A (graph 38) MW-42 (graph 47) MW-43 (graph 48)
Antimony, total	None	None
Arsenic, total	MW-33C (graph 73)	MW-19C (graph 69)
Barium, total	None	MW-15R (graph 83) MW-29A (graph 86) MW-42 (graph 95)
Beryllium, total	None	None
Cadmium, total	None	None
Calcium, dissolved	None	MW-15R (graph 131) MW-29A (graph 134) MW-32 (graph 135) MW-34A (graph 138) MW-34C (graph 139) MW-36A (graph 141)

Table 6B. Summary of Trends in Groundwater (2005 - 2024)
2024 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Trend Test B *= all metals and groundwater quality parameters listed in Appendix I and Appendix II of WAC (173-351-990)*		
	Significant Increasing Trends	Significant Decreasing Trends
Chloride	MW-39 (graph 158)	MW-15R (graph 147) MW-19C (graph 149) MW-32 (graph 151) MW-34A (graph 154) MW-34C (graph 155) MW-42)graph 159)
Chromium, total	None	None
Cobalt, total	None	None
Copper, total	None	None
Iron, total	None	None
Lead, total	None	None
Magnesium, dissolved	MW-39 (graph 254)	MW-15R (graph 243) MW-33A (graph 248) MW-34A (graph 250) MW-34C (graph 251) MW-42 (graph 255)
Manganese, total	None	MW-42 (graph 271) MW-43 (graph 272)
Nickel, total	None	None
Nitrate (as N)	MW-35 (graph 300)	MW-13B (graph 290) MW-16 (graph 292)
pH	MW-34C (graph 315) MW-42 (graph 319)	None
Potassium, dissolved	MW-42 (graph 335)	None
Selenium, total	None	None
Silver, total	None	None

Table 6B. Summary of Trends in Groundwater (2005 - 2024)
2024 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Trend Test B *= all metals and groundwater quality parameters listed in Appendix I and Appendix II of WAC (173-351-990)*		
	Significant Increasing Trends	Significant Decreasing Trends
Sodium, dissolved	None	MW-15R (graph 371) MW-19C (graph 373) MW-32 (graph 375) MW-34A (graph 378) MW-34C (graph 379) MW-36A (graph 381) MW-42 (graph 383) MW-43 (graph 384)
Specific Conductivity	MW-13B (graph 386) MW-33C (graph 393) MW-35 (graph 396) MW-39 (graph 398)	MW-15R (graph 387) MW-33A (graph 392) MW-34A (graph 394) MW-34C (graph 395)
Sulfate	MW-33A (graph 408)	MW-13B (graph 402) MW-19C (graph 405) MW-32 (graph 407) MW-42 (graph 415)
Temperature	MW-34A (graph 426) MW-34C (graph 427) MW-35 (graph 428)	None
Thallium, total	None	None
Total Dissolved Solids	None	MW-15R (graph 451) MW-32 (graph 455) MW-33A (graph 456) MW-34A (graph 458) MW-34C (graph 459)
Total Organic Carbon	None	MW-34C (graph 475)
Vanadium, total	None	None
Zinc, total	None	None

Table 7. November 2024 Prediction Limit Exceedances
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well Type	Well Location	Date Sampled	Parameter	Units	Result	Prediction Limit
Compliance	MW-15R	11/14/2024	Barium, total	mg/L	0.0046	0.0045
	MW-34A	11/13/2024	Arsenic, total	ug/L	3	0.481
	MW-34A	11/13/2024	Calcium, dissolved	mg/L	19	18
	MW-34A	11/13/2024	Sodium, dissolved	mg/L	9.7	7.7
	MW-34A	11/13/2024	Specific conductivity	mS/cm	0.206	0.186
	MW-34C	11/13/2024	Arsenic, total	ug/L	13.4	0.481
	MW-34C	11/13/2024	Barium, total	mg/L	0.34	0.0045
	MW-34C	11/13/2024	Cadmium, total	mg/L	0.0005	0.0003
	MW-34C	11/13/2024	Cobalt, total	mg/L	0.025	0.003
	MW-34C	11/13/2024	Copper, total	mg/L	0.0044	0.0021
	MW-34C	11/13/2024	Iron, total	mg/L	38	0.31
	MW-34C	11/13/2024	Manganese, total	mg/L	37	0.11
	MW-34C	11/13/2024	Sodium, dissolved	mg/L	9.5	7.7
	MW-34C	11/13/2024	Vanadium, total	mg/L	0.0093	0.009
	MW-34C	11/13/2024	Zinc, total	mg/L	0.01	0.0056
	MW-39	11/14/2024	Ammonia (as n)	mg/L	0.42	0.28
	MW-39	11/14/2024	Arsenic, total	ug/L	1.23	0.481
	MW-39	11/14/2024	Barium, total	mg/L	0.014	0.0045
	MW-39	11/14/2024	Chloride	mg/L	5.1	4.4
	MW-39	11/14/2024	Cobalt, total	mg/L	0.0079	0.003
	MW-39	11/14/2024	Iron, total	mg/L	35	0.31
	MW-39	11/14/2024	Manganese, total	mg/L	0.45	0.11
	MW-39	11/14/2024	Sodium, dissolved	mg/L	9.2	7.7
	MW-39	11/14/2024	Specific conductivity	mS/cm	0.271	0.186
	MW-42	11/13/2024	Alkalinity, bicarbonate (as caco3)	mg/L	180	96
	MW-42	11/13/2024	Alkalinity, total (as caco3)	mg/L	180	96
	MW-42	11/13/2024	Ammonia (as n)	mg/L	2.5	0.28
	MW-42	11/13/2024	Arsenic, total	ug/L	2.5	0.481
	MW-42	11/13/2024	Barium, total	mg/L	0.081	0.0045
	MW-42	11/13/2024	Calcium, dissolved	mg/L	40	18
	MW-42	11/13/2024	Chloride	mg/L	8.9	4.4
	MW-42	11/13/2024	Iron, total	mg/L	20	0.31
	MW-42	11/13/2024	Magnesium, dissolved	mg/L	14	11.17
	MW-42	11/13/2024	Manganese, total	mg/L	3	0.11
	MW-42	11/13/2024	Potassium, dissolved	mg/L	8.6	1.4
	MW-42	11/13/2024	Sodium, dissolved	mg/L	17	7.7
	MW-42	11/13/2024	Specific conductivity	mS/cm	0.451	0.186
	MW-42	11/13/2024	Total dissolved solids (tds)	mg/L	230	175
	MW-43	11/13/2024	pH	pH Units	5.58	5.82 - 8.20

Table 7. November 2024 Prediction Limit Exceedances
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well Type	Well Location	Date Sampled	Parameter	Units	Result	Prediction Limit
Downgradient	MW-29A	11/13/2024	Arsenic, total	ug/L	2.2	0.481
	MW-29A	11/13/2024	Barium, total	mg/L	0.0052	0.0045
	MW-29A	11/13/2024	Iron, total	mg/L	3.6	0.31
	MW-29A	11/13/2024	Manganese, total	mg/L	1.2	0.11
	MW-32	11/13/2024	Alkalinity, bicarbonate (as caco3)	mg/L	140	96
	MW-32	11/13/2024	Alkalinity, total (as caco3)	mg/L	140	96
	MW-32	11/13/2024	Arsenic, total	ug/L	9.3	0.481
	MW-32	11/13/2024	Barium, total	mg/L	0.0054	0.0045
	MW-32	11/13/2024	Calcium, dissolved	mg/L	30	18
	MW-32	11/13/2024	Chloride	mg/L	8.7	4.4
	MW-32	11/13/2024	Iron, total	mg/L	0.69	0.31
	MW-32	11/13/2024	Magnesium, dissolved	mg/L	15	11.17
	MW-32	11/13/2024	Manganese, total	mg/L	2.1	0.11
	MW-32	11/13/2024	Sodium, dissolved	mg/L	11	7.7
	MW-32	11/13/2024	Specific conductivity	mS/cm	0.308	0.186
	MW-32	11/13/2024	Sulfate	mg/L	13	9.9
	MW-32	11/13/2024	Total dissolved solids (tds)	mg/L	210	175
	MW-33A	11/14/2024	Iron, total	mg/L	1.3	0.31
	MW-33C	11/14/2024	Arsenic, total	ug/L	2.7	0.481
	MW-33C	11/14/2024	Barium, total	mg/L	0.005	0.0045
	MW-33C	11/14/2024	Manganese, total	mg/L	0.22	0.11
	MW-33C	11/14/2024	Specific conductivity	mS/cm	0.216	0.186
	MW-36A	11/14/2024	Arsenic, total	ug/L	0.499	0.481

Notes:

Contents prepared by GeoChem Applications

deg C = degrees Celcius

CaCO3 = calcium carbonate

N = nitrogen

µg/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milliSiemens per centimeter

Table 8. 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat
Data Input (general): 3-year "moving window", updated annually
Data Input (specific): January 1, 2021 through December 31, 2024
Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well Type	Monitoring Well	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
Compliance	MW-15R	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-15R	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-15R	Arsenic, total	6	100%	0.257	0.250	ug/L	LN	4.27	ug/L	No	No
	MW-15R	Iron, total	6	17%	0.065	0.065	mg/L	A	1.90	mg/L	No	No
	MW-15R	Manganese, total	6	100%	0.0051	0.0042	mg/L	LN	0.73	mg/L	No	No
	MW-15R	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-15R	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-15R	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-15R	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-15R	Ammonia as N	6	33%	0.045	0.05	mg/L	A	0.19	mg/L	No	No
	MW-34A	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-34A	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-34A	Arsenic, total	6	100%	3.000	1.573	ug/L	Z	4.27	ug/L	No	No
	MW-34A	Iron, total	6	0%	0.06 (ND)	0.06	mg/L	B	1.90	mg/L	No	No
	MW-34A	Manganese, total	6	33.3%	0.0014	0.0014	mg/L	A	0.73	mg/L	No	No
	MW-34A	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-34A	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-34A	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-34A	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-34A	Ammonia as N	6	33.3%	0.075	0.075	mg/L	A	0.19	mg/L	No	No
	MW-34C	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-34C	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-34C	Arsenic, total	6	100%	21.9	31.6	ug/L	LN	4.27	ug/L	**Yes**	No
	MW-34C	Iron, total	6	100%	44	44.0	mg/L	A**	1.90	mg/L	**Yes**	No
	MW-34C	Manganese, total	6	100%	37.0	17.5	mg/L	Z	0.73	mg/L	**Yes**	No
	MW-34C	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-34C	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-34C	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-34C	Vinyl Chloride	6	17%	0.022	0.02	ug/L	A	0.20	ug/L	No	**Yes (▼)**
	MW-34C	Ammonia as N	6	50.0%	0.042	0.042	mg/L	A	0.19	mg/L	No	No

Table 8. 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Monitoring Well Type	Monitoring Well	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
Compliance	MW-39	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-39	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-39	Arsenic, total	6	100%	2.68	2.45	ug/L	N	4.27	ug/L	No	No
	MW-39	Iron, total	6	100%	41	39.6	mg/L	LN	1.90	mg/L	**Yes**	No
	MW-39	Manganese, total	6	100%	0.52	0.50	mg/L	Z	0.73	mg/L	No	No
	MW-39	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-39	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-39	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-39	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-39	Ammonia as N	6	100%	0.94	0.68	mg/L	Z	0.19	mg/L	**Yes**	No
	MW-42	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-42	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-42	Arsenic, total	6	100%	2.50	2.26	ug/L	LN	4.27	ug/L	No	No
	MW-42	Iron, total	6	100%	29	27.1	mg/L	LN	1.90	mg/L	**Yes**	No
	MW-42	Manganese, total	6	100%	4.0	3.9	mg/L	LN	0.73	mg/L	**Yes**	**Yes (▼)**
	MW-42	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-42	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-42	Trichloroethene	6	0.0%	0.46 (ND)	0.47	ug/L	A	1.0	ug/L	No	No
	MW-42	Vinyl Chloride	6	83.3%	0.1	0.14	ug/L	LN	0.20	ug/L	No	No
	MW-42	Ammonia as N	6	100%	7.3	4.8	mg/L	Z	0.19	mg/L	**Yes**	**Yes (▼)**
	MW-43	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-43	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-43	Arsenic, total	6	83.3%	0.157	0.322	ug/L	LN	4.27	ug/L	No	No
	MW-43	Iron, total	6	83%	6.6	6.6	mg/L	A**	1.90	mg/L	**Yes**	No
	MW-43	Manganese, total	6	100%	0.14	0.75	mg/L	LN	0.73	mg/L	**Yes**	**Yes (▼)**
	MW-43	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-43	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-43	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-43	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-43	Ammonia as N	6	33.3%	0.044	0.044	mg/L	A	0.19	mg/L	No	**Yes (▼)**

Table 8. 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Monitoring Well Type	Monitoring Well	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
Downgradient	MW-29A	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-29A	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-29A	Arsenic, total	6	100%	2.25	2.09	ug/L	Z	4.27	ug/L	No	No
	MW-29A	Iron, total	6	100%	5.0	4.73	mg/L	LN	1.90	mg/L	**Yes**	No
	MW-29A	Manganese, total	6	100%	1.4	1.34	mg/L	LN	0.73	mg/L	**Yes**	No
	MW-29A	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-29A	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-29A	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-29A	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-29A	Ammonia as N	6	100%	0.15	0.15	mg/L	LN	0.19	mg/L	No	**Yes (▼)**
	MW-32	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-32	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-32	Arsenic, total	6	100%	11.4	10.5	ug/L	Z	4.27	ug/L	**Yes**	No
	MW-32	Iron, total	6	100%	1.10	0.84	mg/L	Z	1.90	mg/L	No	No
	MW-32	Manganese, total	6	100%	2.1	2.1	mg/L	LN	0.73	mg/L	**Yes**	No
	MW-32	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-32	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-32	Trichloroethene	6	50.0%	0.51	0.58	ug/L	LN	1.0	ug/L	No	No
	MW-32	Vinyl Chloride	6	100%	0.28	0.25	ug/L	LN	0.20	ug/L	**Yes**	**Yes (▼)**
	MW-32	Ammonia as N	6	100.0%	0.15	0.15	mg/L	LN	0.19	mg/L	No	No
	MW-33A	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-33A	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-33A	Arsenic, total	6	100%	1.270	2.412	ug/L	LN	4.27	ug/L	No	No
	MW-33A	Iron, total	6	100%	8.9	6.4	mg/L	Z	1.90	mg/L	**Yes**	No
	MW-33A	Manganese, total	6	100%	0.080	0.053	mg/L	Z	0.73	mg/L	No	No
	MW-33A	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-33A	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-33A	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-33A	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-33A	Ammonia as N	6	100%	0.38	0.20	mg/L	Z	0.19	mg/L	**Yes**	No

Table 8. 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Monitoring Well Type	Monitoring Well	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
Downgradient	MW-33C	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-33C	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-33C	Arsenic, total	6	100%	4.31	3.70	ug/L	Z	4.27	ug/L	No	Yes (▲)
	MW-33C	Iron, total	6	100%	1.7	4.51	mg/L	LN	1.9	mg/L	Yes	No
	MW-33C	Manganese, total	6	100%	0.96	0.87	mg/L	LN	0.73	mg/L	Yes	No
	MW-33C	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-33C	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-33C	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-33C	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-33C	Ammonia as N	6	17%	0.059	0.059	mg/L	A	0.19	mg/L	No	No
	MW-36A	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
	MW-36A	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
	MW-36A	Arsenic, total	6	100%	0.667	0.635	ug/L	LN	4.27	ug/L	No	No
	MW-36A	Iron, total	6	33%	0.096	0.10	mg/L	A	1.9	mg/L	No	No
	MW-36A	Manganese, total	6	50%	0.0047	0.018	mg/L	LN	0.73	mg/L	No	No
	MW-36A	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
	MW-36A	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
	MW-36A	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
	MW-36A	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-36A	Ammonia as N	6	33%	0.053	0.053	mg/L	A	0.19	mg/L	No	No

NOTES:

[1] N = number of data points used for UCL calculation of the mean; only SIM results used for Vinyl Chloride (e.g., duplicate results with higher RLs by non-SIM were omitted).

[2] MAX = maximum detected result in the data set; if no detected results, then = maximum reporting limit for non-detect results (indicated with ND).

[3] A 3-year moving data set is used for calculation of the UCL.

[4] ug/L - micrograms per liter; mg/L = milligrams per liter.

[5] Groundwater Cleanup Levels for VOCs are from Table 3 of the Oct 2010 Draft Cleanup Action Plan; and for As, Fe, Mn and Ammonia-N from the July 15, 2021 Ecology letter approving Groundwater Quality

[6] Trend analysis results are based on data for the period January 2005 through December 2024; arrows indicated increasing (▲) or decreasing (▼) trends.

A = Detection frequency of data set too low and/or N too few to calculate 95% UCL of mean; therefore, the highest detected result in the data set used to represent 95% UCL of mean.

A* = Same as note "A" except that the highest value in the data set is below the reporting limit of one or more non-detected results; therefore, the highest reporting limit is used to represent the 95% UCL of the r

A** = MTCAStat suggests use of lognormal formula but calculation of 95% UCL of mean by Land's formula provides unrealistic result; therefore, the highest detected result is used to represent the 95% UCL of the

A*** = MTCAStat suggests use of the Z-score method but then cites inability to calculate due to presence of censored values; therefore, the highest detected result is used to represent the 95% UCL of the mean

B = Detection frequency = 0; therefore, the highest reporting limit in the data set is used to represent the 95% UCL of mean.

LN = The 95% UCL of the mean is calculated using Land's formula since lognormal distribution is indicated.

N = The 95% UCL of the mean is calculated using a normal-based t-statistic since a normal distribution is indicated.

Z = the 95% UCL of the mean is calculated using the Z-score method in MTCAStat since neither normal nor lognormal distribution can be determined.

Table 9. Groundwater Quality Criteria and Site-Specific Cleanup Level Exceedances
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Comparison Criteria			Field Parameters		General Chemistry				VOCs
			pH (SU)	Specific Conductivity	Ammonia (mg N/L)	Arsenic, Total (ug/L)	Iron, Total (mg/L)	Manganese, Total (mg/L)	Vinyl Chloride (µg/L)
WAC 173-200			6.5< >8.5	--	0.19*	4.27*	1.9*	0.73*	0.02
Primary Federal MCL			--	--	--	10	--	--	2
Secondary Federal MCL			6.5< >8.5	700	--	--	0.3	0.05	--
Site-specific MTCA Cleanup Levels			--	--	0.19	0.462	--	--	0.2
Well, Location, and Sample Events									
Upgradient	MW-13A	SA #1	--	--	NA	NA	NA	NA	NA
		SA #2	--	--	--	--	--	--	--
	MW-13B	SA #1	--	--	NA	NA	NA	NA	NA
		SA #2	--	--	--	--	--	--	--
	MW-16	SA #1	6.32	--	NA	NA	NA	NA	NA
		SA #2	6.11	--	--	--	--	--	--
	MW-35	SA #1	--	--	NA	NA	NA	NA	NA
		SA #2	--	--	--	--	--	--	--
	MW-19C	SA #1	--	--	0.4	2.07	0.21	0.98	--
		SA #2	6.30	--	0.43	2.08	0.15	1.0	--
Compliance Monitoring	MW-15R	SA #1	6.39	--	--	--	--	--	--
		SA #2	6.36	--	--	--	--	--	--
	MW-34A	SA #1	5.81	--	--	--	--	--	--
		SA #2	6.14	--	--	3.0	--	--	--
	MW-34C	SA #1	6.52	--	--	5.09	11	1.8	--
		SA #2	6.45	--	--	13.4	38	37	--
	MW-39	SA #1	5.87	--	0.45	2.32	40	0.51	--
		SA #2	6.03	--	0.42	1.23	35	0.45	--
	MW-42	SA #1	6.37	--	3.0	1.52	23	3.4	--
		SA #2	6.38	--	2.5	2.50	20	3.0	0.033
	MW-43	SA #1	5.73	--	--	--	0.47	--	--
		SA #2	5.58	--	--	--	--	--	--
Downgradient	MW-29A	SA #1	5.90	--	--	1.73	4.6	1.3	--
		SA #2	5.98	--	--	2.2	3.6	1.2	--
	MW-32	SA #1	--	--	--	9.27	0.52	1.6	0.2
		SA #2	--	--	--	9.3	0.69	2.1	--
	MW-33A	SA #1	--	--	--	0.76	7.1	--	--
		SA #2	6.02	--	--	1.25	1.3	--	--
	MW-33C	SA #1	--	--	--	2.74	0.46	0.28	--
		SA #2	--	--	--	2.7	--	0.22	--
	MW-36A	SA #1	5.89	--	--	0.562	--	--	--
		SA #2	5.92	--	--	0.499	--	--	--

Notes:

SA #1 = Semi-annual Event No. 1
SA #2 = Semi-annual Event No. 2
mg N/L = miligrams of Nitrogen per liter
mg/L = milligrams per liter
SU = standard units
µg/L = micrograms per liter
B = estimated value due to potential blank contribution
* = Updated site specific groundwater protection standards based on Ecology's recommendations (7/15/21)
NA = upgradient monitoring wells were only sampled for Appendix II field parameters during Semi-annual No. 1 Event

0.00141 = exceeds Site-specific MTCA Cleanup Levels
0.035 = exceeds WAC 173-200 Groundwater Quality Criteria
0.51 = exceeds Federal MCL criteria
0.49 = exceeds Site-specific MTCA Cleanup Levels and WAC 173-200 Criteria
6.44 = exceeds Federal MCL and WAC 173-200 Groundwater Quality Criteria
0.0014 = exceeds Federal MCLs, Site-specific MTCA Cleanup Levels, and WAC 173-200 Criteria

Table 10. Cumulative 2024 Leak Detection System Volumes
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Date	Total Volume (Gals)	Comments
1/31/2024	300	Pumped dry.
2/29/2024	180	Pumped dry.
3/31/2024	70	Pumped dry.
4/30/2024	165	Pumped dry.
5/31/2024	200	LP-LCD sample collected on May 15, 2024.
6/30/2024	180	Pumped dry.
7/31/2024	185	Pumped dry.
8/31/2024	230	Pumped dry.
9/30/2024	245	Pumped dry.
10/31/2024	40	* See note below
11/30/2024	0	* See note below
12/31/2024	410	LP-LCD sample collected on November 19, 2024.
TOTAL	**2,205**	**Volume for period between 1/1/24 through 12/31/2024.**

Notes:

Table 11A. Landfill Gas Measurement Results - September 2024
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County Washington

Waste Management Incorporated

Location Reference Designation	Date	Time	Instrument Readings: Pressure (in H_2O)	CH_4 (% vol.)	CO_2 (% vol.)	O_2 (% vol.)	Comments: CH_4 Spike *Note 1* (% vol.)	CO_2 Spike *Note 1* (% vol.)	Depth to Water TOP (ft)	Exposed Portion of Perforations (*Note 2*) (ft)	(%)	Other
Subsurface Landfill Gas Detection Wells (Gas Probes):												
GP-7	9/24/24	10:49	-0.01	0.00	11.10	7.70			15.22	4.62	92.4%	
GP-8	9/24/24	10:22	0.01	0.00	6.30	9.70			DRY	0.00	100.0%	
GP-9S	9/24/24	15:37	0.01	0.00	1.80	18.60						
GP-9D	9/24/24	15:45	0.03	0.00	1.20	18.80			DRY	0.00	100.0%	
GP-10S	9/24/24	14:49	0.03	0.00	0.70	19.30						
GP-10D	9/24/24	15:04	0.17	0.00	0.60	17.90			DRY	5.00	100.0%	
GP-11S	9/24/24	14:25	0.01	0.00	3.20	17.10						
GP-11D	9/24/24	14:37	0.02	0.00	2.00	17.70			DRY	0.00	100.0%	
GP-12S	9/24/24	13:50	0.13	0.00	1.60	16.40						
GP-12M	9/24/24	14:01	0.01	0.00	1.30	17.30						
GP-12D	9/24/24	14:12	0.15	0.00	1.30	15.10			50.01	4.61	92.2%	
GP-13S	9/24/24	13:08	0.02	0.00	4.40	16.60						
GP-13M	9/24/24	13:16	0.40	0.00	4.00	15.90						
GP-13D	9/24/24	13:28	0.45	0.00	3.90	15.80			51.21	6.01	60.1%	
GP-14	9/24/24	12:34	0.06	0.00	7.50	7.30			DRY	0.00	100.0%	
GP-15	9/24/24	11:48	0.05	0.30	11.00	0.40			DRY	0.00	100.0%	
GP-16	9/24/24	11:25	-0.04	0.00	3.10	17.70			14.79	4.59	91.8%	
Onsite Building Interiors:												
SH-SS	9/24/24	15:55	--	0.00	0.00	21.10						
SH-NS	9/24/24	15:58	--	0.00	0.00	21.10						
SH-IN	9/24/24	15:58	--	0.00	0.00	21.10						
SS-WH	9/24/24	15:24	--	0.00	0.00	19.10						
EL-SH	9/24/24	10:35	--	0.00	0.10	20.40						
TL-OF	9/24/24	10:05	--	0.00	0.10	19.90						

Weather Conditions

Monitoring Date:	9/24/2024	Sky Cover:	Sunny
Monitored By:	P. Bannister (Aspect)	Wind/Rain/Snow:	0
Instrument:	GEM 2NAV	Temperature (°F):	61
Calibration Date:	9/24/2024	Preceding 24-hr Barometric Trend:	Steady

Notes:
1. Measurement for spike concentrations of CH4 and CO2 are recorded if observed during sampling.
2. Exposed perforations = perforated pipe section not submerged by water.
3. Readings not reported: Screened interval completely submerged.

CH_4 = Methane
CO_2 = Carbon Dioxide
O_2 = Oxygen
GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
TOP = From Top of Pipe

SH-SS = Scale House - South Side Exterior
SH-NS = Scale House - North Side Exterior
SH-IN = Scale House - Office Interior
SS-WH = South Slope Well House
EL-SH = Electrical Shed
TL-OF = Office
-- = Measurements not taken
NA = Not Applicable

Depressed O2 < 20.3% vol.
Detected CO2 > 0.3 % vol.
Detected CH4 > 0.3 % vol.

Table 11B. Landfill Gas Measurement Results - December 2024
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Olympic View Sanitary Landfill, Kitsap County Washington

Waste Management Incorporated

	Instrument Readings						Comments					
Location Reference Designation	**Date**	**Time**	**Pressure (in H_2O)**	**CH_4 (% vol.)**	**CO_2 (% vol.)**	**O_2 (% vol.)**	**CH_4 Spike *Note 1* (% vol.)**	**CO_2 Spike *Note 1* (% vol.)**	**Depth to Water TOP (ft)**	**Exposed Portion of Perforations (*Note 2*) (ft)**	**(%)**	**Other**
Subsurface Landfill Gas Detection Wells (Gas Probes):												
GP-7	12/5/24	10:26	-0.05	0.00	9.80	5.90			0.00	0.00	0.0%	
GP-8	12/5/24	9:52	-0.20	0.00	5.30	9.00			17.44	4.64	92.8%	
GP-9S	12/5/24	14:15	0.01	0.00	2.30	18.90						
GP-9D	12/5/24	14:23	0.02	0.00	1.60	19.80			DRY	0.00	100.0%	
GP-10S	12/5/24	13:55	0.00	0.00	0.90	20.70						
GP-10D	12/5/24	14:02	-0.05	0.00	0.70	20.30			DRY	0.00	100.0%	
GP-11S	12/5/24	13:33	-0.07	0.00	3.20	17.90						
GP-11D	12/5/24	13:45	-0.03	0.00	2.70	18.80			26.08	0.78	15.6%	
GP-12S	12/5/24	13:00	0.10	0.00	1.00	18.60						
GP-12M	12/5/24	13:07	0.06	0.00	0.90	19.30						
GP-12D	12/5/24	13:22	NA	NA	NA	NA			48.38	2.98	59.6%	Note 3
GP-13S	12/5/24	11:54	0.04	0.00	4.50	15.40						
GP-13M	12/5/24	12:02	0.15	0.00	4.20	15.90						
GP-13D	12/5/24	12:19	0.12	0.00	4.10	16.50			51.88	6.68	66.8%	
GP-14	12/5/24	11:22	0.03	0.00	5.80	8.00			DRY	0.00	100.0%	
GP-15	12/5/24	11:04	-1.42	0.00	8.10	0.20			13.26	2.86	57.2%	
GP-16	12/5/24	10:41	-0.03	0.00	3.30	18.10			DRY	0.00	100.0%	
Onsite Building Interiors:												
SH-SS	12/5/24	12:29	--	0.00	0.10	21.00						
SH-NS	12/5/24	12:32	--	0.00	0.10	21.00						
SH-IN	12/5/24	12:34	--	0.00	0.10	21.00						
SS-WH	12/5/24	14:33	--	0.00	0.10	21.20						
EL-SH	12/5/24	10:03	--	0.00	0.10	21.80						
TL-OF	12/5/24	9:32	--	0.00	0.10	21.40						

		Weather Conditions	
Monitoring Date:	12/5/24	Sky Cover:	Overcast
Monitored By:	P. Bannister (Aspect)	Wind/Rain/Snow:	0
Instrument:	GEM 2NAV	Temperature (°F):	35
Calibration Date:	12/5/24	Preceding 24-hr Barometric Trend:	Steady

Notes:
1. Measurement for spike concentrations of CH4 and CO2 are recorded if observed during sampling.
2. Exposed perforations = perforated pipe section not submerged by water.
3. Readings not reported: Screened interval completely submerged.

CH_4 = Methane	SH-SS = Scale House - South Side Exterior	Depressed O2 < 20.3% vol.
CO_2 = Carbon Dioxide	SH-NS = Scale House - North Side Exterior	Detected CO2 > 0.3 % vol.
O_2 = Oxygen	SH-IN = Scale House - Office Interior	Detected CH4 > 0.3 % vol.
GP = Gas Probe	SS-WH = South Slope Well House	
S = Shallow Monitoring Zone	EL-SH = Electrical Shed	
M = Middle Monitoring Zone	TL-OF = Office	
D = Deep Monitoring Zone	-- = Measurements not taken	
TOP = From Top of Pipe	NA = Not Applicable	

Table 12. Landfill Gas Monitoring Results - 2024
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

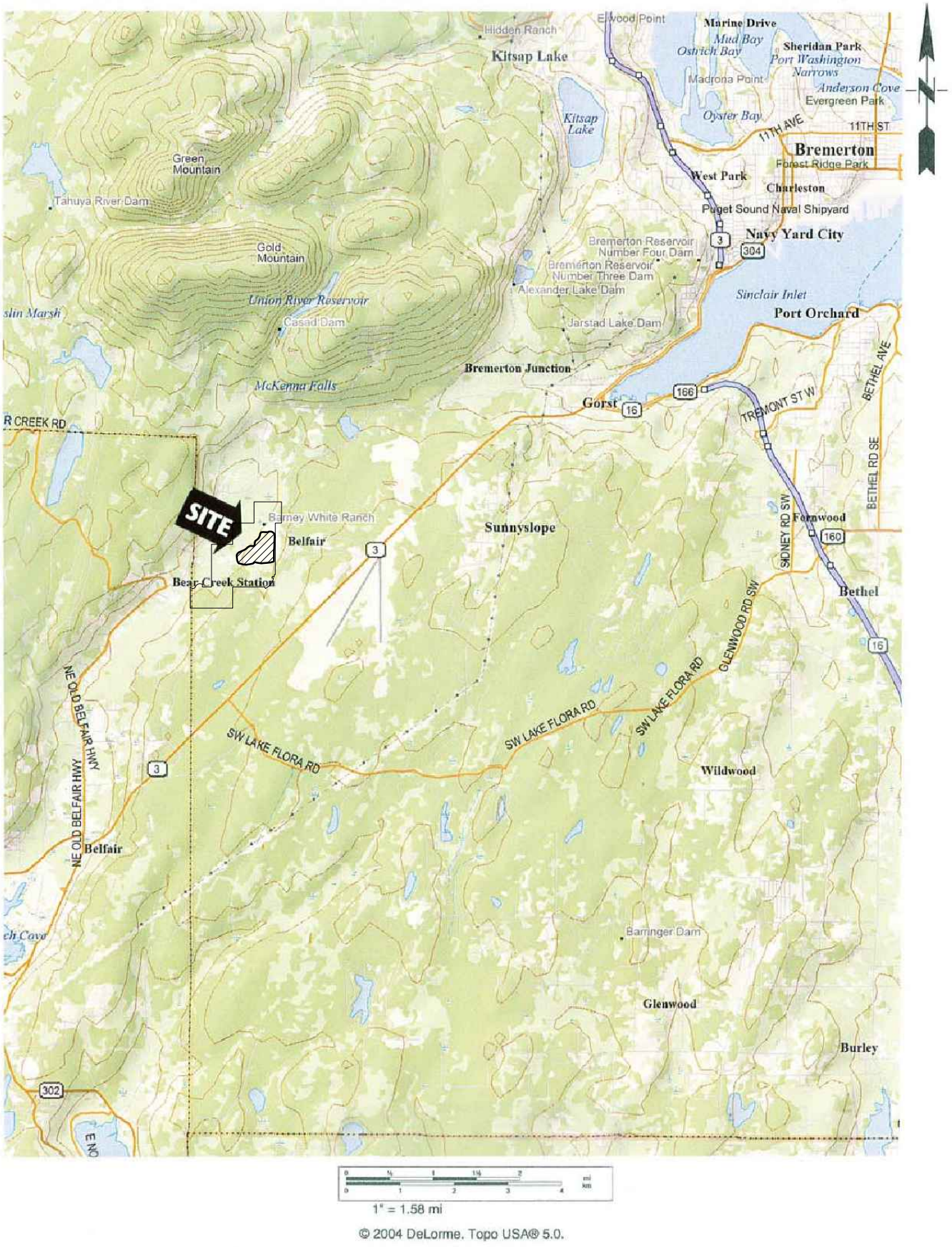
Location	Date	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-7	2/1/2024	0.0	6.2	5.8
	5/15/2024	0.0	7.2	5.7
	9/24/2024	0.0	11.1	7.7
	12/5/2024	0.0	9.8	5.9
GP-8	2/1/2024	0.0	4.0	6.2
	5/15/2024	0.0	3.6	10.7
	9/24/2024	0.0	6.3	9.7
	12/5/2024	0.0	5.3	9.0
GP-9S	2/1/2024	0.0	1.8	17.9
	5/15/2024	0.0	1.7	18.7
	9/24/2024	0.0	1.8	18.6
	12/5/2024	0.0	2.3	18.9
GP-9D	2/1/2024	0.0	1.5	18.9
	5/15/2024	0.0	1.1	18.1
	9/24/2024	0.0	1.2	18.8
	12/5/2024	0.0	1.6	19.8
GP-10S	2/1/2024	0.0	0.8	19.9
	5/15/2024	0.0	0.7	19.5
	9/24/2024	0.0	0.7	19.3
	12/5/2024	0.0	0.9	20.7
GP-10D	2/1/2024	0.0	0.7	18.5
	5/15/2024	0.0	0.6	18.6
	9/24/2024	0.0	0.6	17.9
	12/5/2024	0.0	0.7	20.3
GP-11S	2/1/2024	0.0	2.6	18.5
	5/15/2024	0.0	2.7	17.3
	9/24/2024	0.0	3.2	17.1
	12/5/2024	0.0	3.2	17.9
GP-11D	2/1/2024	0.0	1.9	18.8
	5/15/2024	0.0	1.7	16.9
	9/24/2024	0.0	2.0	17.7
	12/5/2024	0.0	2.7	18.8
GP-12S	2/1/2024	0.0	2.1	16.9
	5/15/2024	0.0	1.0	18.7
	9/24/2024	0.0	1.6	16.4
	12/5/2024	0.0	1.0	18.6
GP-12M	2/1/2024	0.0	2.1	16.9
	5/15/2024	0.0	1.0	18.9
	9/24/2024	0.0	1.3	17.3
	12/5/2024	0.0	0.9	19.3
GP-12D	2/1/2024	0.0	1.2	17.4
	5/15/2024	0.0	0.8	17.2
	9/24/2024	0.0	1.3	15.1
	12/5/2024	0.0	1.4	17.1

Table 12. Landfill Gas Monitoring Results - 2024
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Location	Date	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-13S	2/1/2024	0.0	5.2	15.9
	5/15/2024	0.0	4.6	16.1
	9/24/2024	0.0	4.4	16.6
	12/5/2024	0.0	4.5	15.4
GP-13M	2/1/2024	0.0	4.0	16.7
	5/15/2024	0.0	3.4	16.3
	9/24/2024	0.0	4.0	15.9
	12/5/2024	0.0	4.2	15.9
GP-13D	2/1/2024	0.0	3.9	16.8
	5/15/2024	0.0	3.3	16.5
	9/24/2024	0.0	3.9	15.8
	12/5/2024	0.0	4.1	16.5
GP-14	2/1/2024	0.0	3.8	7.5
	5/15/2024	0.0	4.1	6.2
	9/24/2024	0.0	7.5	7.3
	12/5/2024	0.0	5.8	8.0
GP-15	2/1/2024	0.0	3.5	6.0
	5/15/2024	0.0	5.1	5.1
	9/24/2024	0.3	11.0	0.4
	12/5/2024	0.0	8.1	0.2
GP-16	2/1/2024	0.0	2.5	18.2
	5/15/2024	0.0	2.9	16.8
	9/24/2024	0.0	3.1	17.7
	12/5/2024	0.0	3.3	18.1

Notes:
CH4 = Methane
CO2 = Carbon dioxide
O2 = Oxygen
-- = Screened portion of well completely submerged in water. Readin

Figures



1" = 1.58 mi

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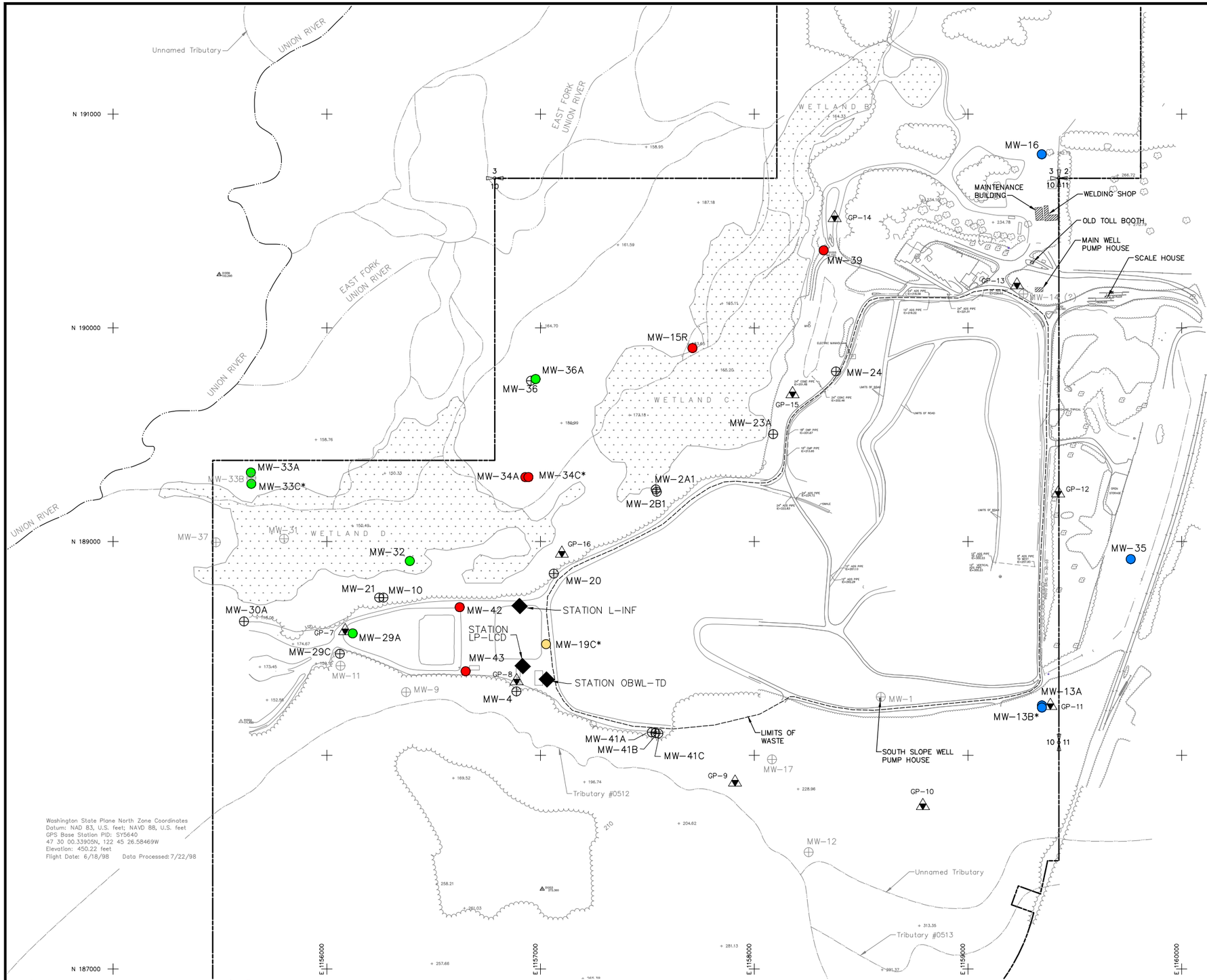
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SCALE 1:100,000	CHK BY D.V.
CAD FILE FIGURE 1	APP BY G.H.

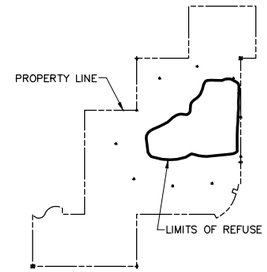
SITE LOCATION MAP

OLYMPIC VIEW SANITARY LANDFILL
KITSAP COUNTY, WASHINGTON

DATE MARCH 2025

FIGURE 1

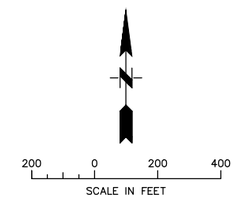




KEY MAP

LEGEND

- MW-35 — UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
- MW-32 — DOWNGRADIENT GROUNDWATER MONITORING WELL
- MW-19C — PERFORMANCE GROUNDWATER MONITORING WELL
- MW-43 — COMPLIANCE GROUNDWATER MONITORING WELL
- MW-10 — GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
- MW-32 — SHALLOW MONITORING WELL
- * — DEEP MONITORING WELL
- MW-1 — INACTIVE GROUNDWATER WELL
- GP-10 — LANDFILL GAS PROBE
- L-INF — LEACHATE MONITORING STATION
- PROPERTY LINE (ASSUMED)



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PROJECT NO.	04204027.28
DES BY	J.E.
SCALE	AS SHOWN
CHK BY	D.V.
CAD FILE	FIGURE 2
APP BY	G.H.

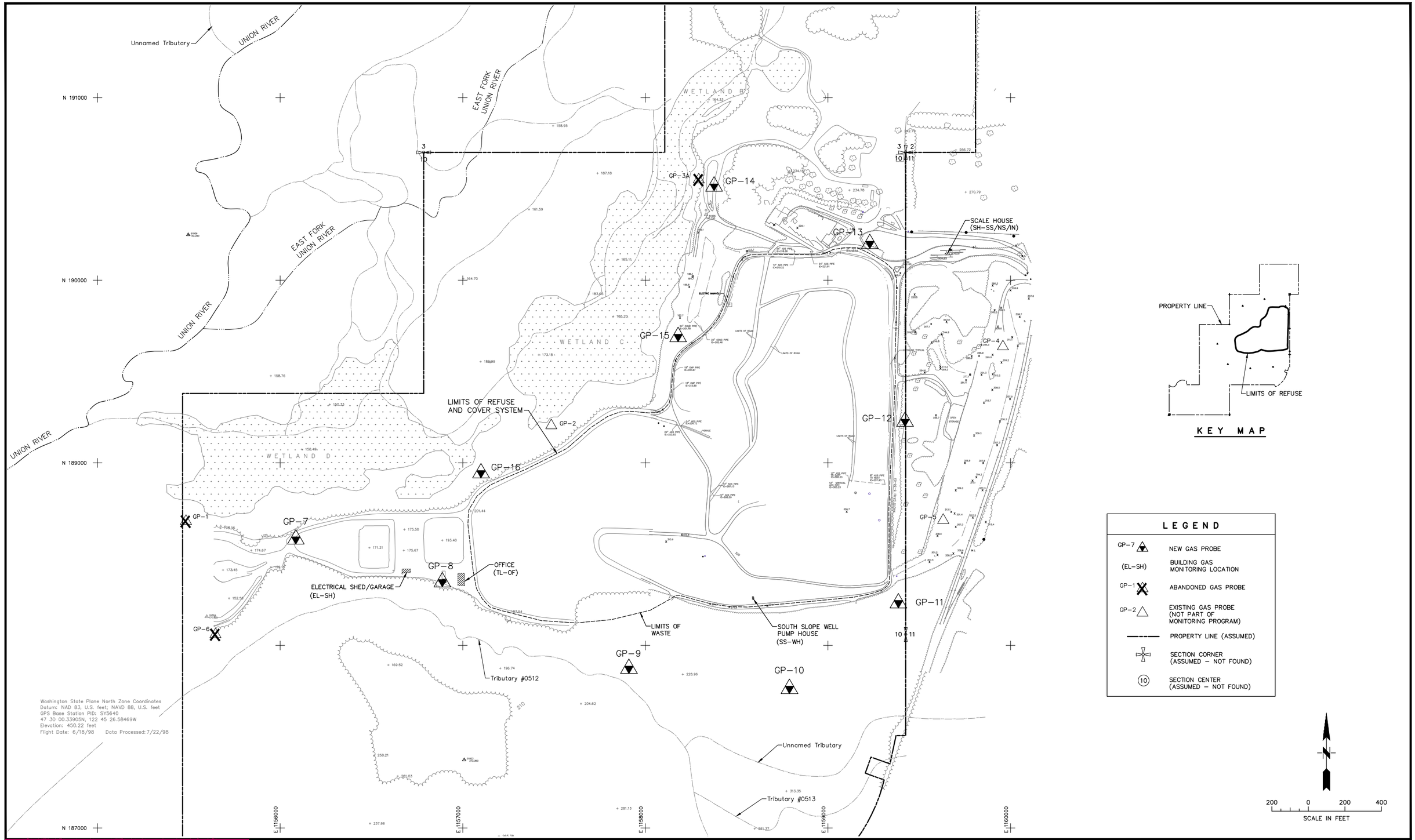
GROUNDWATER MONITORING WELL NETWORK AND LEACHATE MONITORING LOCATIONS

OLYMPIC VIEW SANITARY LANDFILL
KITSAP COUNTY, WASHINGTON

DATE: MARCH 2025

FIGURE: 2

G:\04204027.28\Deliverables\Figures\2025 Annual Figures\Dwgs\Figure 2 OVSL GW - GA12-2025 Leachate Locations.dwg Layout1, 3/13/2025 11:35:24 AM, DWG To PDF.pc3



Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98

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PROJECT NO. 04204027.28	DES BY J.E.
SCALE AS SHOWN	CHK BY D.V.
CAD FILE FIGURE 3	APP BY G.H.

SUBSURFACE GAS MIGRATION MONITORING PROBES AND BUILDING MONITORING LOCATIONS

OLYMPIC VIEW SANITARY LANDFILL
PORT ORCHARD, WASHINGTON

DATE MARCH 2025

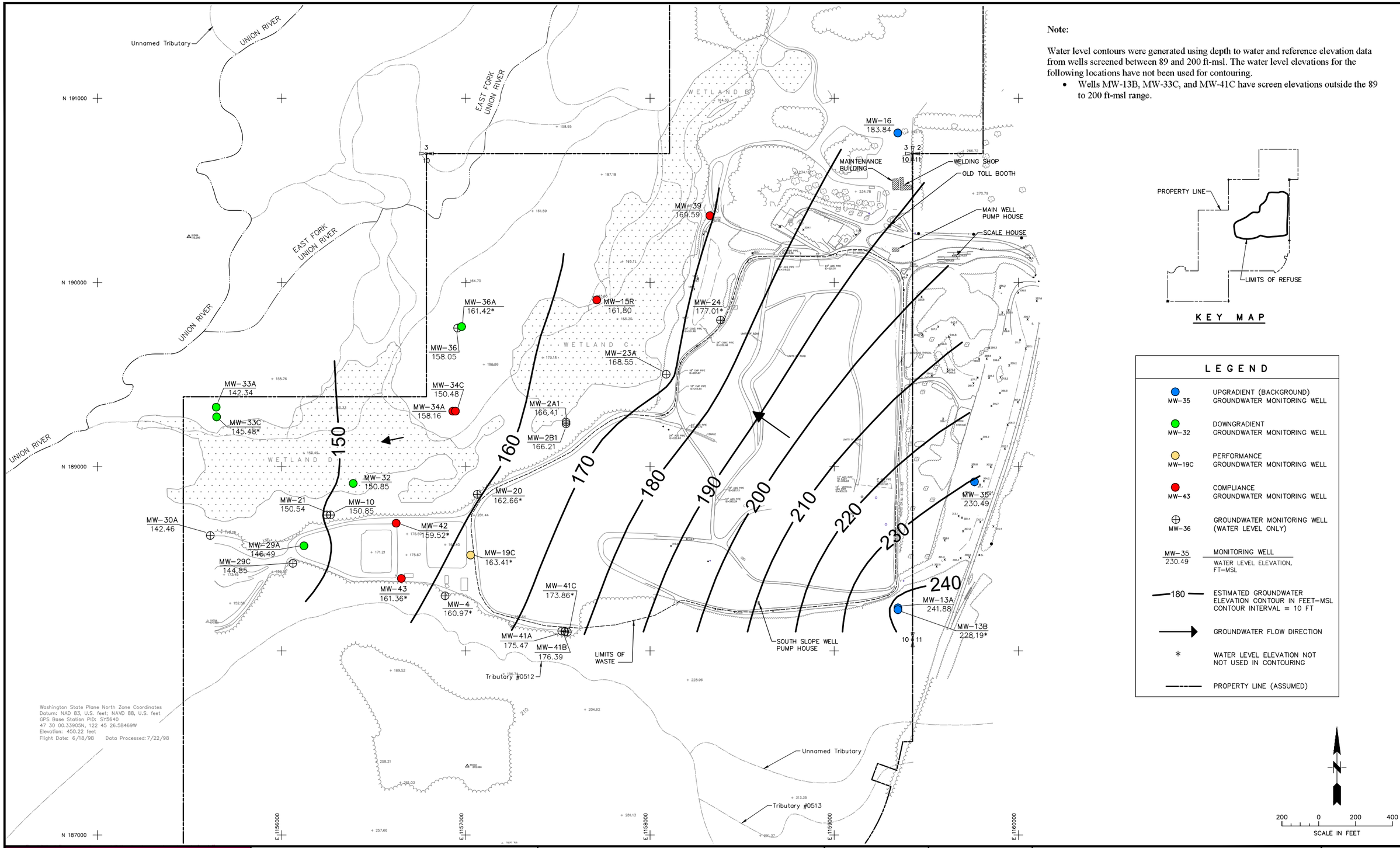
FIGURE 3

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Note:

Water level contours were generated using depth to water and reference elevation data from wells screened between 89 and 200 ft-msl. The water level elevations for the following locations have not been used for contouring.

- Wells MW-13B, MW-33C, and MW-41C have screen elevations outside the 89 to 200 ft-msl range.



Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98

KEY MAP

LEGEND

MW-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-19C	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-35 / 230.49	MONITORING WELL WATER LEVEL ELEVATION, FT-MSL
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 10 FT
	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING
	PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

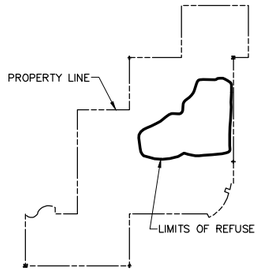
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PROJECT NO. 04204027.28	DES BY J.E.	WATER LEVEL CONTOUR MAP MAY 2024	DATE MARCH 2025
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 4A
CAD FILE FIGURE 4A	APP BY D.V.		

Note:

Water level contours were generated using depth to water and reference elevation data from wells screened between 89 and 200 ft-msl. The water level elevations for the following locations have not been used for contouring.

- Wells MW-13B, MW-33C, and MW-41C have screen elevations outside the 89 to 200 ft-msl range.



KEY MAP

LEGEND

MW-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-19C	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-35 / 229.38	MONITORING WELL — WATER LEVEL ELEVATION, FT-MSL
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 10 FT
	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING
	PROPERTY LINE (ASSUMED)

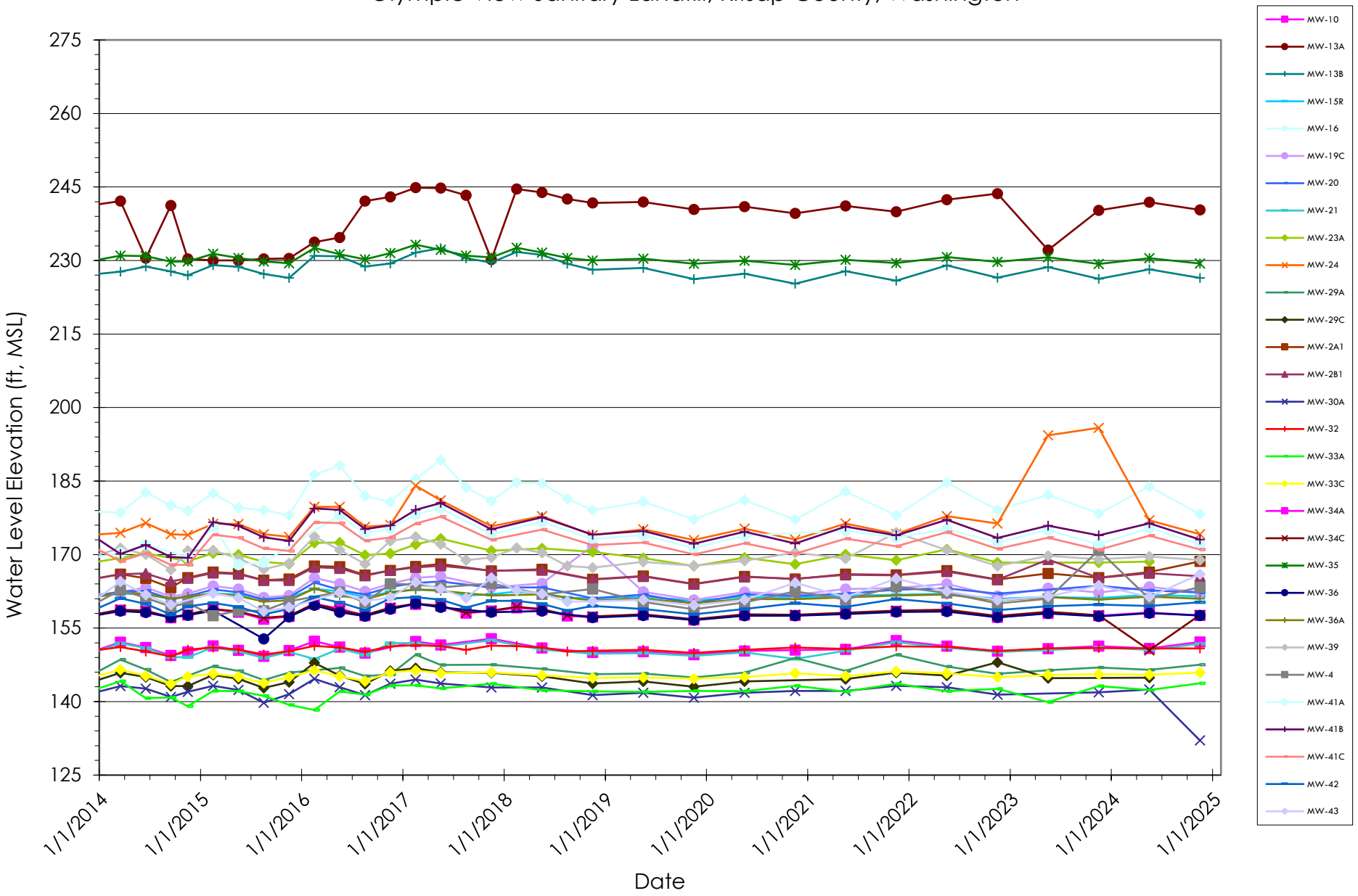
Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98

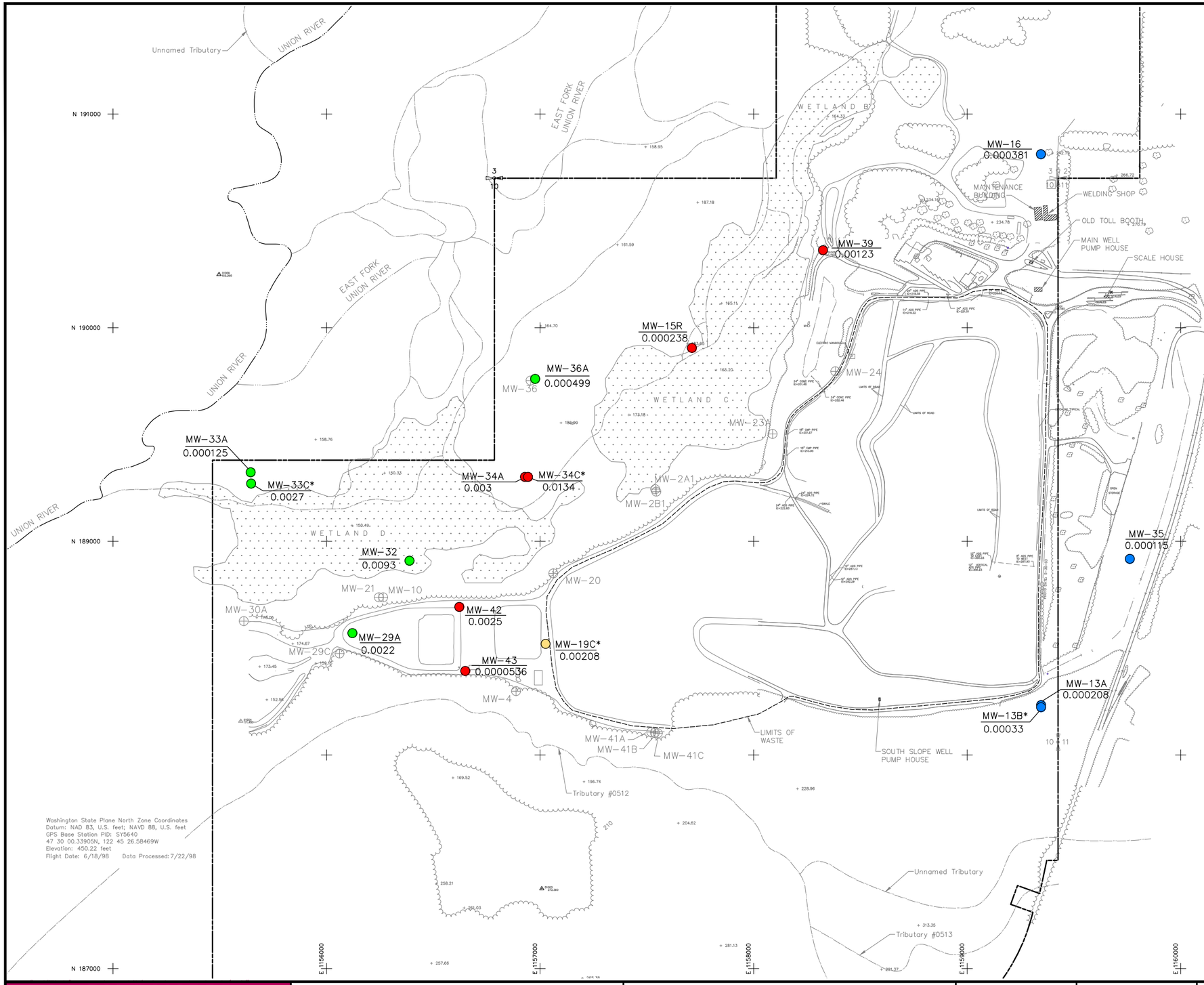
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SCALE IN FEET

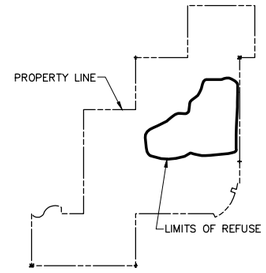
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PROJECT NO. 04204027.28	DES BY J.E.	WATER LEVEL CONTOUR MAP NOVEMBER 2024	DATE MARCH 2025
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 4B
CAD FILE FIGURE 4B	APP BY D.V.		

Figure 5. Historical Groundwater Elevations
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington







KEY MAP

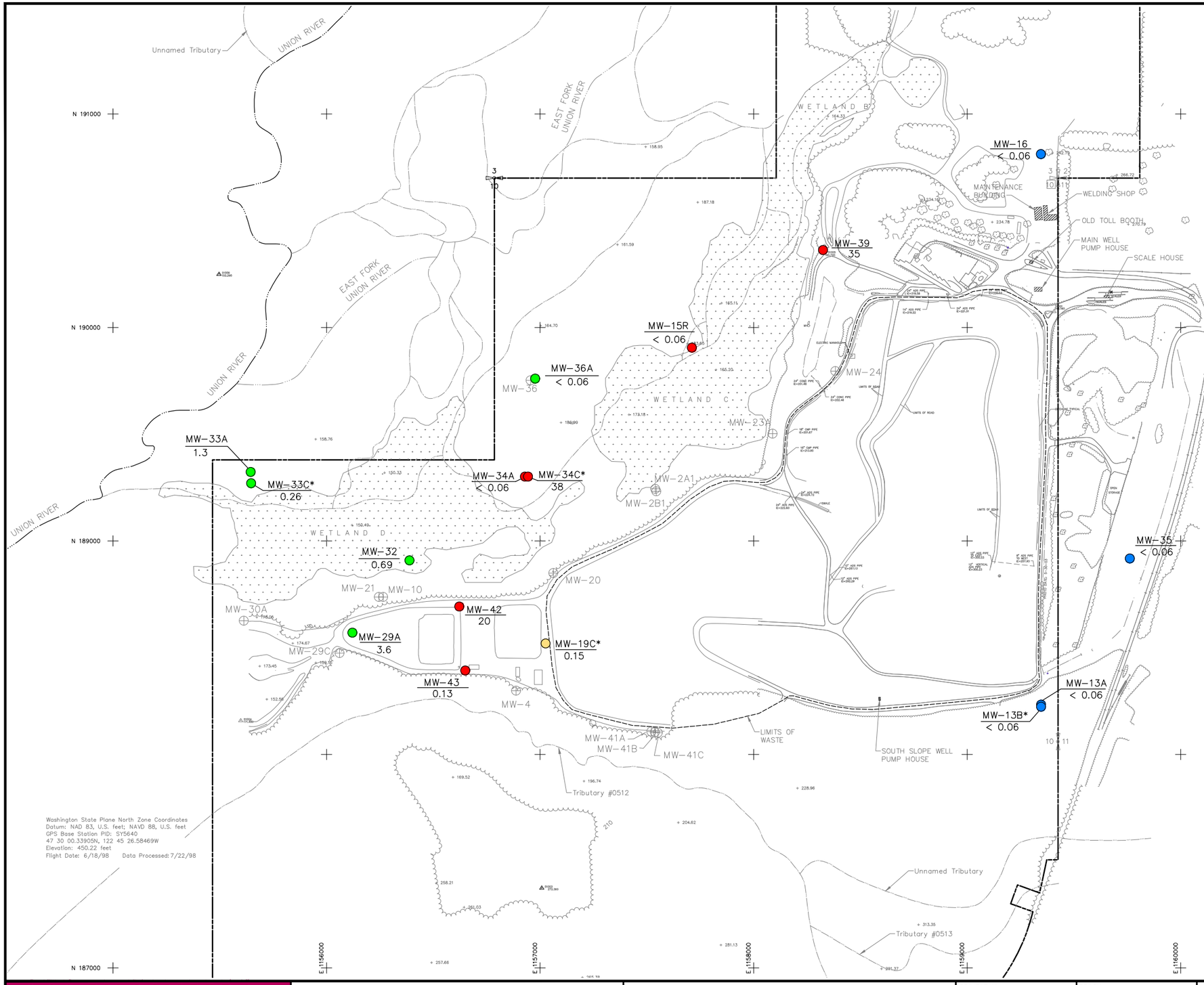
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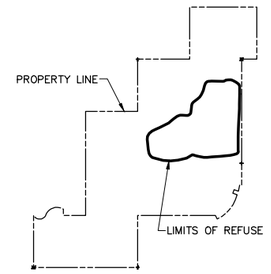
MW-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-19C	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-10	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-32 / 0.0093	SHALLOW MONITORING WELL ARSENIC, TOTAL (mg/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

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PROJECT NO. 04204027.28	DES BY J.E.	TOTAL ARSENIC CONCENTRATION MAP NOVEMBER 2024	DATE MARCH 2025
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6A
CAD FILE FIGURE 6A	APP BY D.V.		





KEY MAP

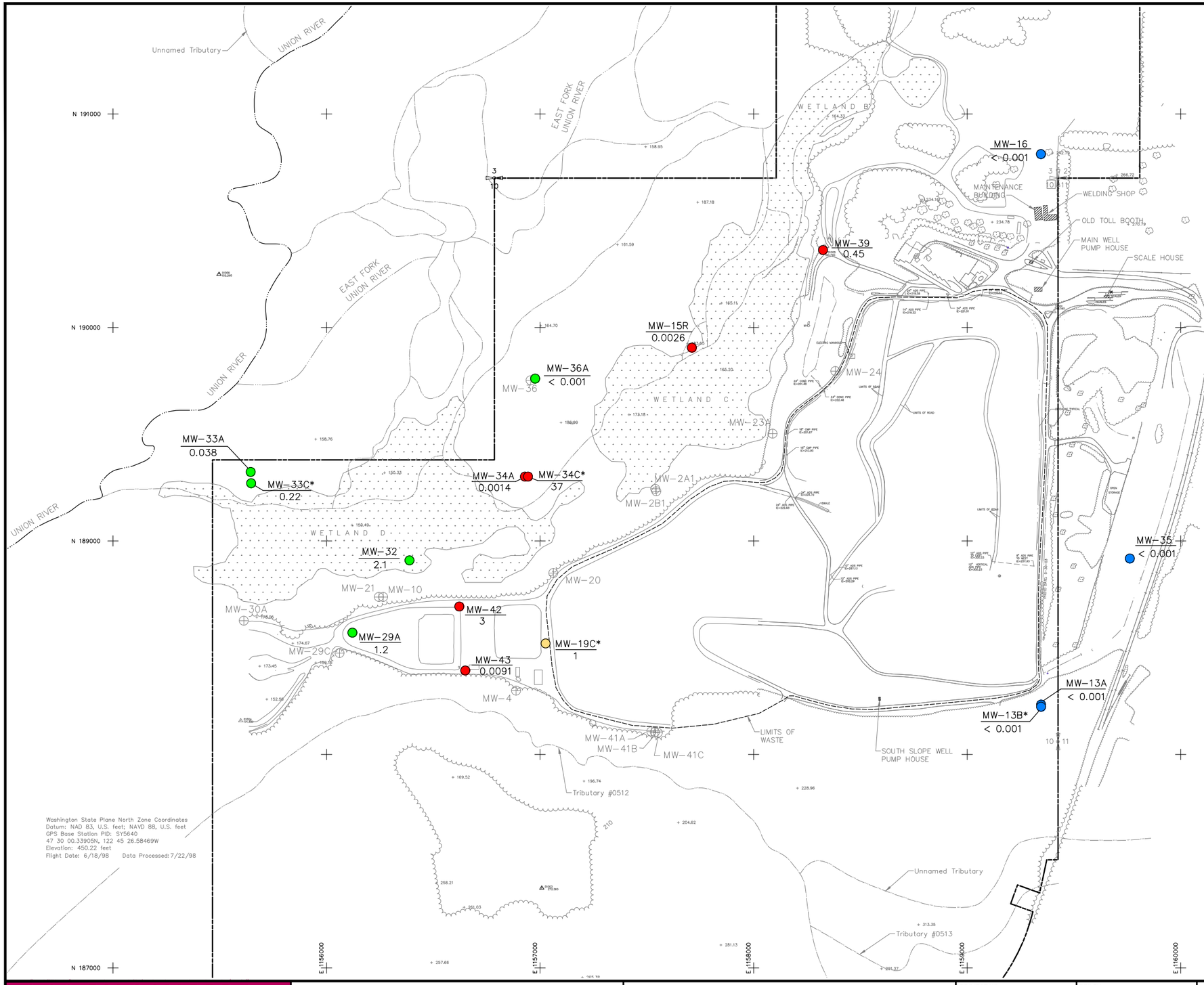
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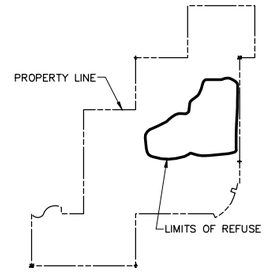
MW-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-19C	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-10	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-32 / 0.69	SHALLOW MONITORING WELL IRON, TOTAL (mg/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

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PROJECT NO. 04204027.28	DES BY J.E.	TOTAL IRON CONCENTRATION MAP NOVEMBER 2024	DATE MARCH 2025
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6B
CAD FILE FIGURE 6B	APP BY D.V.		

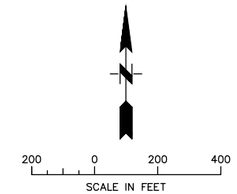




KEY MAP

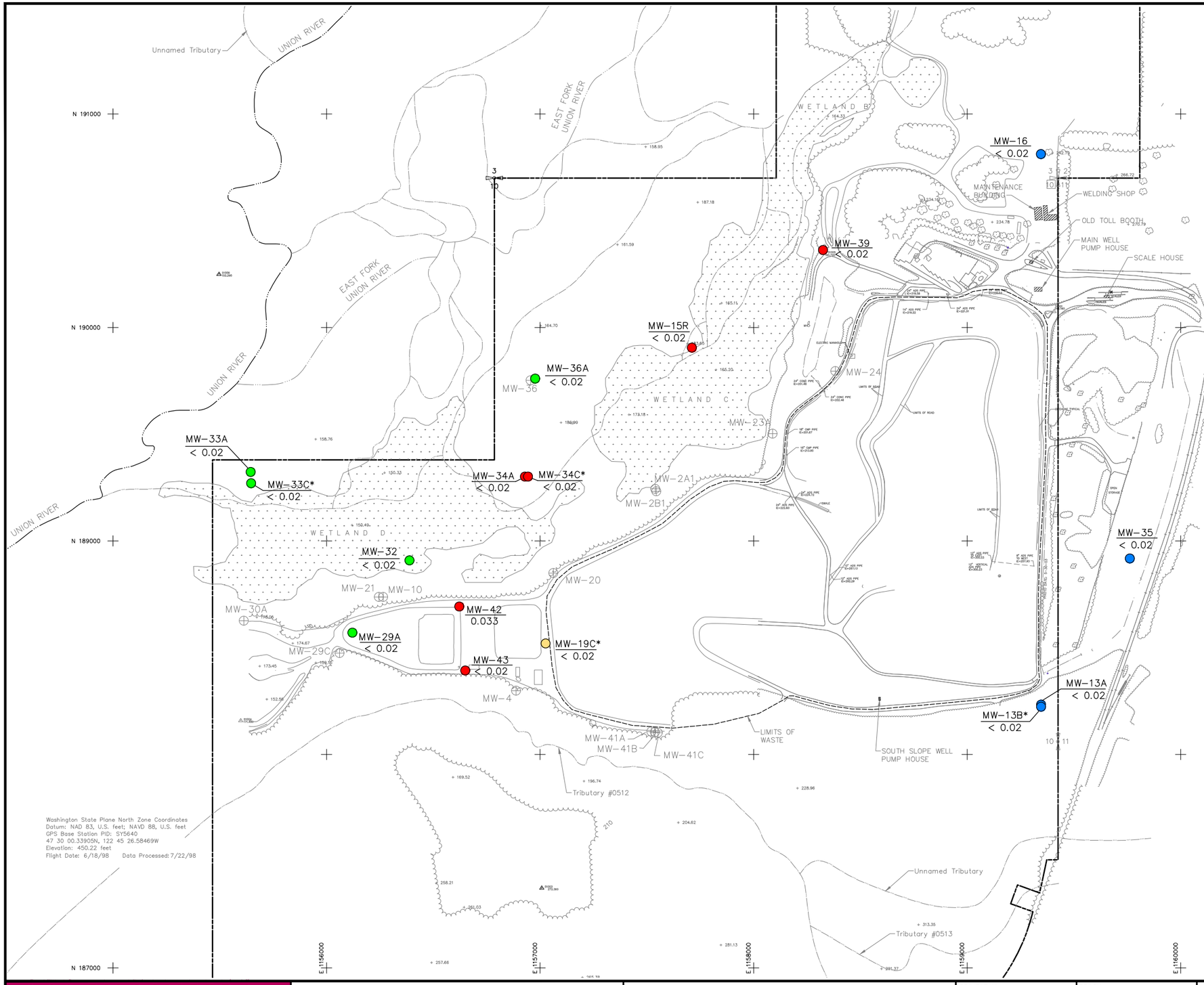
LEGEND

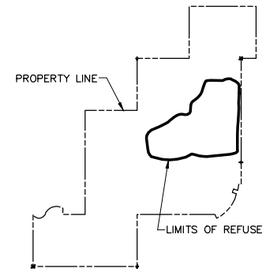
MW-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-19C	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-10	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-32 / 2.1	SHALLOW MONITORING WELL MANGANESE, TOTAL (mg/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)



SCS ENGINEERS
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.28	DES BY J.E.	TOTAL MANGANESE CONCENTRATION MAP NOVEMBER 2024	DATE MARCH 2025
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6C
CAD FILE FIGURE 6C	APP BY D.V.		





KEY MAP

LEGEND

MW-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-19C	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-10	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-42 / 0.033	SHALLOW MONITORING WELL VINYL CHLORIDE, TOTAL (ug/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

SCS ENGINEERS
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.28	DES BY J.E.	VINYL CHLORIDE CONCENTRATION MAP NOVEMBER 2024	DATE MARCH 2025
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6D
CAD FILE FIGURE 6D	APP BY D.V.		

Figure 7. Leachate Generation (2007 - 2024)
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

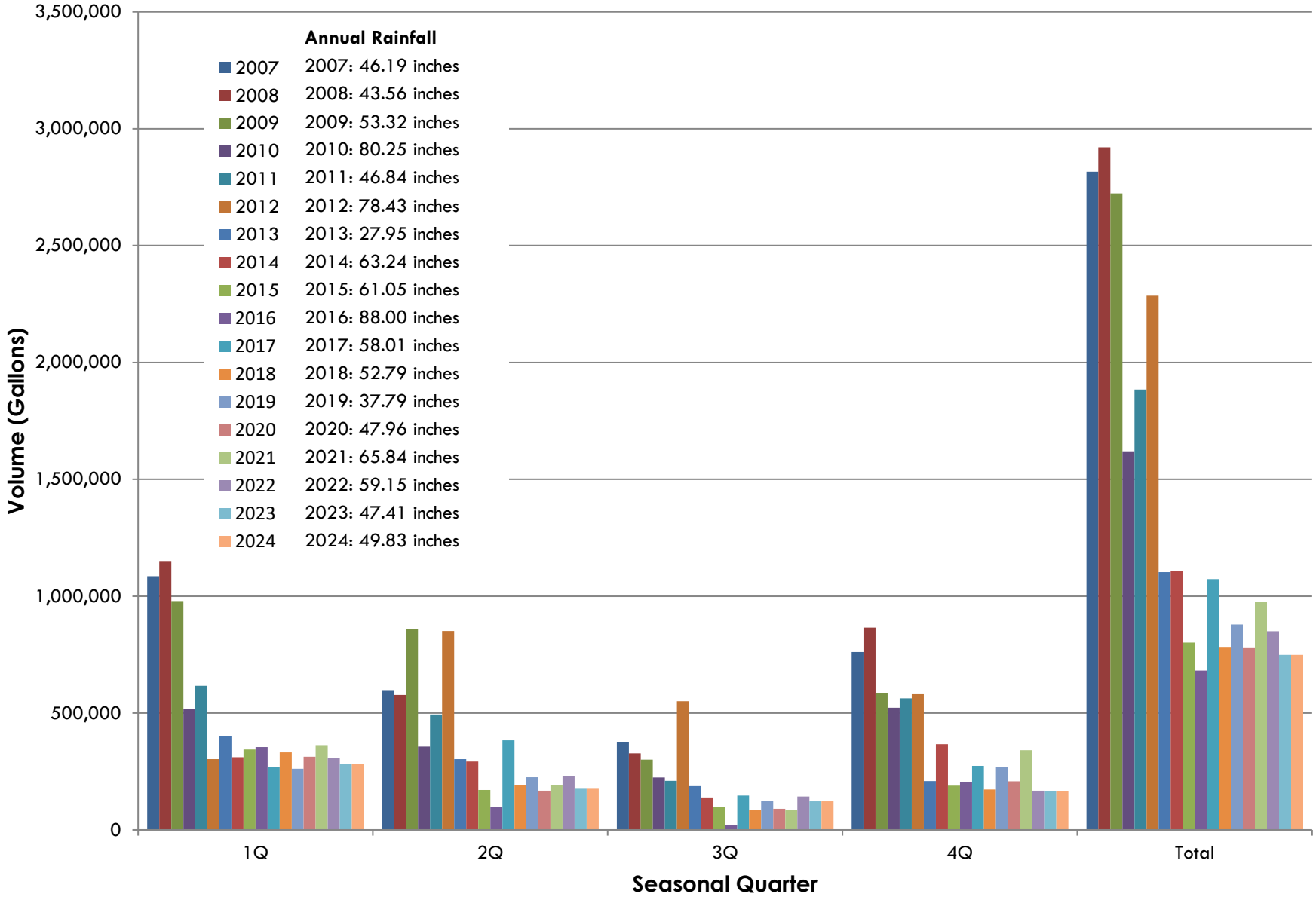
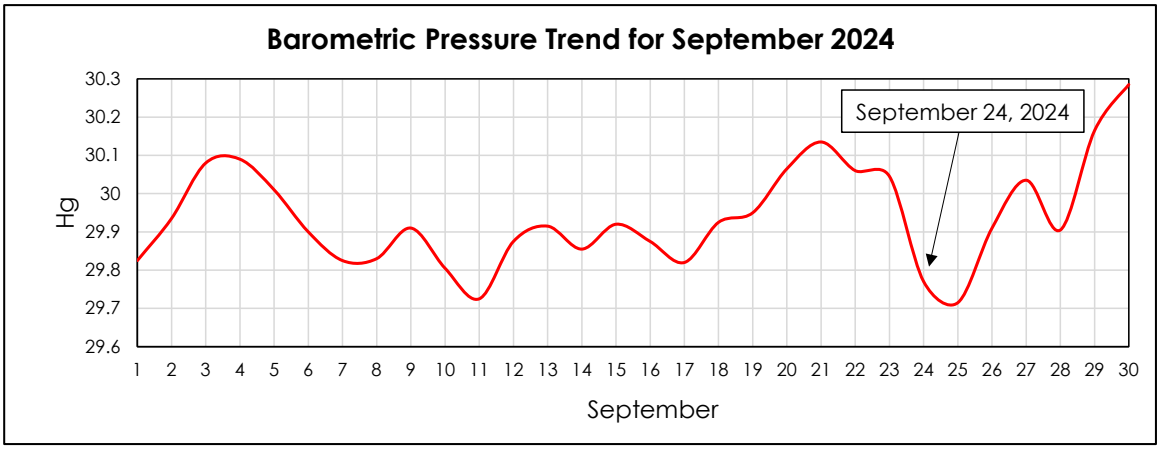
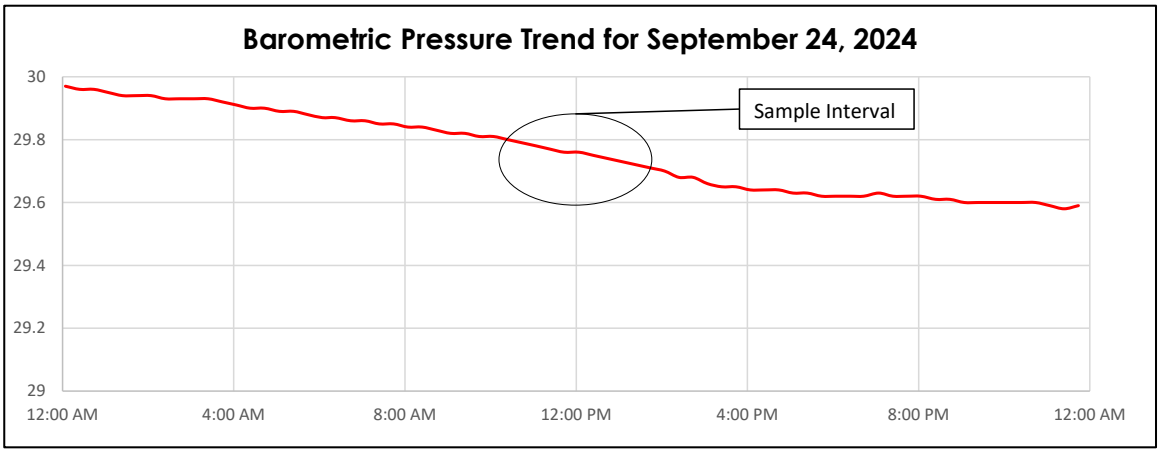


Figure 8A. Barometric Pressure Trend - September 2024
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

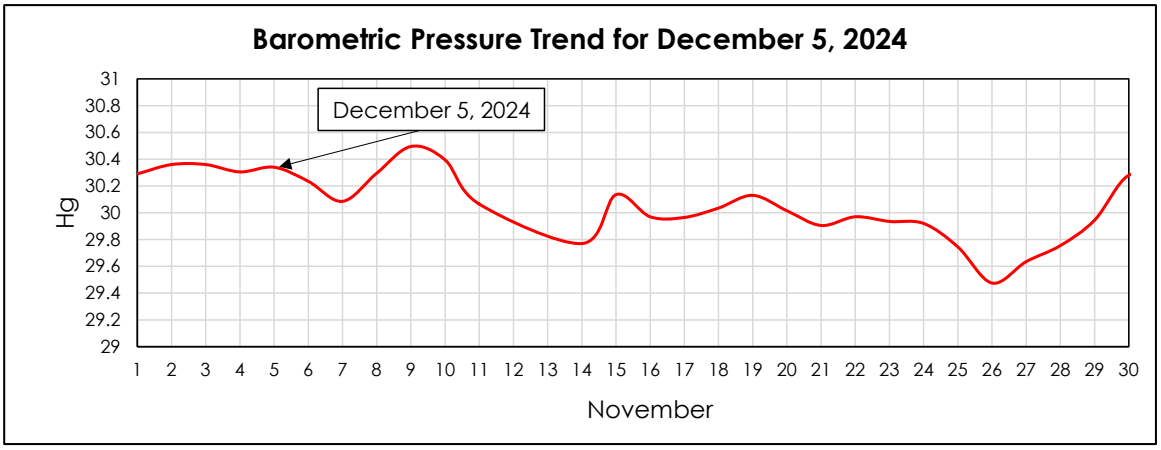


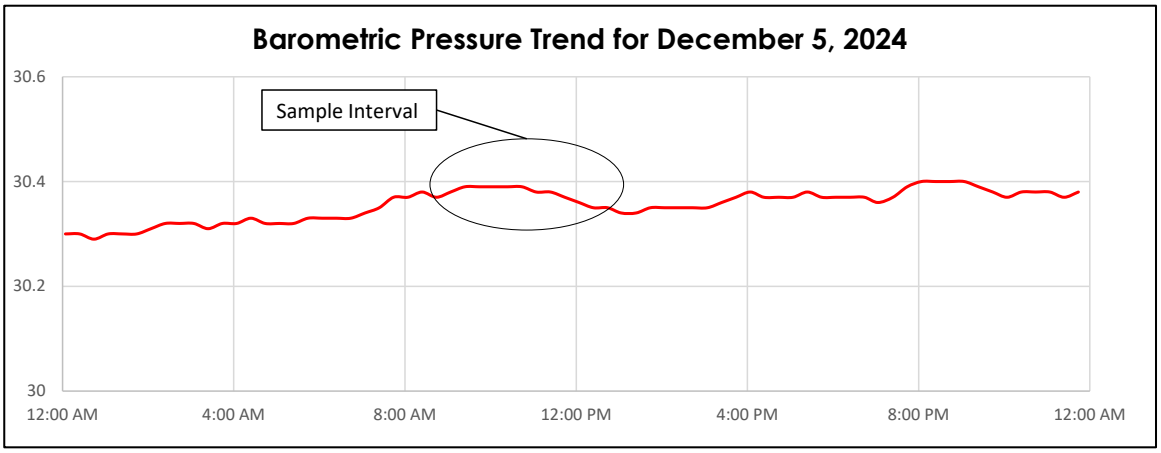


Monthly Data Source: Wunderground.com (Bremerton, WA)
Lat: 47.52 Long: 122.78 Elev: 226 ft-AMSL
Data Source:
https://www.wunderground.com/dashboard/pws/KWABREME169/table/2024-09-24/2024-09-24/monthly

Daily Data Source: Wunderground.com (Bremerton, WA)
Lat: 47.52 Long: 122.78 Elev: 226 ft-AMSL
Data Source:
https://www.wunderground.com/dashboard/pws/KWABREME169/table/2024-09-24/2024-09-24/daily

Figure 8B. Barometric Pressure Trend - December 2024
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington





Monthly Data Source: Wunderground.com (Bremerton, WA)
Lat: 47.52 Long: 122.78 Elev: 226 ft-AMSL
Data Source:
https://www.wunderground.com/dashboard/pws/KWABREME169/table/2024-12-5/2024-12-5/monthly

Daily Data Source: Wunderground.com (Bremerton, WA)
Lat: 47.52 Long: 122.78 Elev: 226 ft-AMSL
Data Source:
https://www.wunderground.com/dashboard/pws/KWABREME169/table/2024-12-5/2024-12-5/daily

Appendix A

November 2024 Field Documentation

November 15, 2024
File No. 04204027.27

Subject: **2024 Semi-Annual Compliance Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

NOTES/SAMPLE DECODING:

Event Dates: November 13-14 and 19, 2024
Field Staff: Alex Deszo & Jovany Estrada

- The gate code to access the site is: 72369
- This event served as the semi-annual monitoring event.
- Duplicate samples were collected at MW-29A (Dup-1) and MW-36A (Dup-2).
- Monitoring wells MW-15R, MW-19C, MW-32, MW-34C and MW-42 were sampled for Appendix III Parameters.
- A Solinst water level meter was used to record all water level elevations.
- The samples were sent to TestAmerica Denver for analysis at the close of each sampling day, except samples for low level arsenic which were retained until the end of the sampling event and provided to Analytical Resources, Inc. in Tukwila, Washington.

Sample Date	Sample Number	Well ID
11/14/2024	1124-01	MW-13A
11/14/2024	1124-02	MW-13B
11/14/2024	1124-03	MW-15R
11/14/2024	1124-04	MW-16
11/13/2024	1124-05	MW-19C
11/13/2024	1124-06	MW-29A
11/13/2024	1124-07	MW-29A (Dup-1)
11/13/2024	1124-08	MW-32
11/14/2024	1124-09	MW-33A
11/14/2024	1124-10	MW-33C
11/13/2024	1124-11	MW-34A
11/13/2024	1124-12	MW-34C
11/14/2024	1124-13	MW-35
11/14/2024	1124-14	MW-36A
11/14/2024	1124-15	MW-36A (Dup-2)
11/14/2024	1124-16	MW-39
11/13/2024	1124-17	MW-42
11/13/2024	1124-18	MW-43
11/19/2024	1124-19	LP-LCD

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-13A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/14/21					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 14.40 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0941	1st	6.02	251	9.2	33	8.1	305	
0946	2nd	6.27	244	9.1	35	7.3	304	
0949	3rd	6.34	242	9.1	33	7.1	307	
0952	4th	6.42	241	9.1	35	7.0	317	
0955		6.48	240	9.1	35	6.9	317	
0958		6.52	239	9.1	36	6.9	325	
1001		6.57	239	9.1	37	6.8	285	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
11/14/21	6.57	239	9.1	37	6.8	285	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: none — Color: none — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: none — Outlook: — — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

10/5/45 ps:

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/21	Alex Perez		SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: ____ Sample Point: MW-13B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/14/24	1024	120			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: ____

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 62.21 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 6 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1021		1st 6.96	1st 239	9.6	36	8.8	269	
1026		2nd 6.71	2nd 237	9.3	38	7.2	317	
1029		3rd 6.91	3rd 237	9.2	39	7.2	323	
1032		4th 7.01	4th 236	9.2	34	7.3	334	
1035		7.11	236	9.2	36	7.3	339	
1038		7.16	236	9.3	40	7.3	343	
1041		7.21	236	9.2	42	7.4	345	
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11/14/24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: none Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

10/5/45 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Decio	AD	SCS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CVSL

Site No.:

Sample Point: MW-15R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11424		:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 19.21 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1130	1st	6.28	1st 166	10.2	63	7.7	645	
1135	2nd	6.24	2nd 159	10.0	62	0.8	123	
1138	3rd	6.25	3rd 159	10.0	39	0.7	140	
1141	4th	6.26	4th 159	10.0	36	0.7	150	
1144		6.28	159	10.0	34	0.8	176	
1147		6.29	159	10.0	32	0.8	197	
1150		6.36	159	10.0	30	0.8	207	
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11424	6.36	159	10.0	30	0.8	207	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: — — Color: — — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

9 | 6 | 25 psi App III sample

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Torahy Estrada	fe	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: DUSL

Site No.:

Sample Point: MW-16 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
1/14/24	11:13	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: L

X-Other:

Filter Device: (Y) or N — (0.45 µ) or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 61.72 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:13	1st	6.67	177	9.3	231	8.7	347.5	
11:18	2nd	6.26	191	9.2	95.3	8.1	360.8	
11:21	3rd	6.16	190	9.2	26.7	7.9	367.1	
11:24	4th	6.14	189	9.2	6.9	7.8	370.4	
11:27		6.12	189	9.2	7.6	7.8	373.6	
11:30		6.12	189	9.2	1.65	7.8	375.5	
11:33		6.11	189	9.2	4.5	7.8	377.6	
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
1/14/24	6.11	189	9.2	4.5	7.8	377.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: none — Color: none — Other: -

Weather Conditions (required daily, or as conditions change): Direction/Speed: - — Outlook: Cloudy/Rain — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

9/6/50 psi

labelled as MW-35

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
1/14/24	Alex Negro		SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OU5L

Site No.:

Sample Point: MW19C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1045	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N (0.45 µ) or _____ µ (circle or fill in)

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____)

Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____)

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 34.65 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1045	1st	5.49	1.167	10.5	73	0.9	354	
1650	2nd	5.92	0.185	10.3	65	3.0	342.7	
1053	3rd	6.05	0.183	10.2	50	2.1	333.9	
1056	4th	6.13	0.182	10.2	39	1.7	326.3	
1059		6.21	0.181	10.2	37	1.4	316.7	
1102		6.27	0.180	10.2	38	1.2	308.1	
1105		6.30	0.179	10.2	35	1.1	302.9	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 13 24	6.30	179	10.2	36	1.1	302.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

916/60 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Alex Perez	[signature]	SLS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSC

Site No.:

Sample Point: MW-29 (Sample ID) A

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	13:18	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)
Depth to Water (DTW) (from TOC): 12.69 (ft)
Groundwater Elevation (site datum, from TOC): _____ (ft/msl)
Total Well Depth (from TOC): _____ (ft)
Stick Up (from ground elevation): _____ (ft)
Casing ID: 02 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:18	1st	6.33	1.101	11.1	86	5.0	311.2	
13:23	2nd	6.10	1.105	11.0	43	2.2	306.4	
13:28	3rd	6.04	1.104	11.8	28.1	1.6	299.5	
13:29	4th	6.02	1.104	11.0	19	1.4	292.8	
13:34		6.00	1.104	11.0	6.3	1.1	283.6	
13:35		5.98	1.104	11.0	6.2	1.0	272.9	
13:38		5.98	1.103	11.0	4.0	0.9	263.8	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 13 24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

9/6 120 psi DUP-1 @ 13:48

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Alex Deszo	[signature]	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.:

Sample Point: MW-32 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1200	:25			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N (0.45) µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: _____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	151	

Total Well Depth (from TOC) (ft):

Stick Up (from ground elevation) (ft):

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1200	1st	5.54	281	11.5	61	3.9	352.4	
1205	2nd	6.41	317	11.6	6.4	1.7	321.0	
1209	3rd	6.49	314	11.6	4.6	1.3	311.3	
1211	4th	6.52	313	11.6	4.1	1.1	305.3	
1214		6.54	311	11.6	3.9	1.0	299	
1217		6.55	310	11.6	3.6	0.8	295.1	
1220		6.56	308	11.6	3.4	0.8	287.6	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
11 13 24	6.56	308	11.6	3.4	0.8	287.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

9/6/14 pc:

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Alex Perez	AP	SCS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.:

Sample Point: MW-33A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24	1340	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 393 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1340		1st	6.61	161	10.1	4800	8.6	330.0	
1344		2nd	6.07	124	10.1	394	3.7	323.9	
1348		3rd	5.98	119	10.0	127	3.7	325.4	
1351		4th	5.96	144	9.9	9.9	2.6	326.4	
1354			5.98	146	10.2	9.8	2.0	318.4	
1357			5.99	149	9.8	8.4	1.5	311.0	
1400			6.02	151	9.7	9.1	1.2	304.1	
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 14 24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

9/6/15 PST

Orange at beginning of purge

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Dezzo	AD	SCS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: ____ Sample Point: MW-33C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24	1427	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____)

X-Other: ____

Sample Tube Type: C (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____)

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	169	

Total Well Depth (from TOC) (ft): ____ Stick Up (from ground elevation) (ft): ____ Casing ID: 02 (in) Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1427	1st	6.47	212	9.5	72	7.3	320.1	
1432	2nd	6.35	218	9.1	29.9	2.4	319.2	
1435	3rd	6.65	217	9.1	23.5	1.6	309.0	
1438	4th	6.82	216	9.1	18.8	1.3	303.3	
1441		6.98	216	9.1	13.5	1.2	297.0	
1444		7.12	216	9.1	9.4	1.1	290.3	
1447		7.18	216	9.1	7.1	0.9	286.1	
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 14 24	7.18	216	9.1	7.1	0.9	286.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: - Other: -

Weather Conditions (required daily, or as conditions change): Direction/Speed: - Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

9/6/20 PSI

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Deszo	AM	SGS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: DVSL

Site No.:

Sample Point: MW-34A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e, with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	12:20	:30			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: _____ A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: _____

X-Other: _____

Filter Type: _____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: _____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 40.40 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 05 (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
12:20	1st	6.20	209	11.5	3.3	3.3	718	
12:25	2nd	6.23	228	11.6	3.3	1.1	179	
12:28	3rd	6.25	226	11.6	3.3	4.1	39	
12:31	4th	6.22	219	11.6	3.3	0.7	0.8	
12:34		6.18	212	11.6	3.3	0.7	2.8	
12:37		6.16	209	11.6	3.2	0.7	4.7	
12:40		6.14	206	11.6	3.1	0.7	7.5	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 13 24	6.14	206	11.6	3.1	0.7	7.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

4/6 30 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11,13,24	Jovany Estrada	JC	SCS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: ____ Sample Point: MW-34C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1120				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N (0.45 µ) or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other: ____

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____)

Sample Tube Type: C (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____)

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)
Depth to Water (DTW) (from TOC): 42.22 (ft)
Groundwater Elevation (site datum, from TOC): ____ (ft/msl)
Total Well Depth (from TOC): ____ (ft)
Stick Up (from ground elevation): ____ (ft)
Casing ID: 05 (in)
Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1115	1st	6.24	188	10.9	350	8.9	85.0	
1120	2nd	6.36	188	12.4	9803	6.0	-17.5	
1123	3rd	6.39	187	12.4	7022	7.7	-15.1	
1126	4th	6.40	186	12.4	6131	7.6	-14.8	
1129		6.40	186	12.4	5542	7.3	-16.6	
1132		6.44	186	12.4	3451	7.0	-20.3	
1135		6.45	186	12.4	2479	0.7	-25.4	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 13 24	6.45	186	12.4	2479	0.7	-25.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

5|7|50 psi App III parameters

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Jovany Estrada	jovanyestrada	SCS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.:

Sample Point: MW-35 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/14/24					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

X-Other:

Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 73.31 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1200	1st	5.91	238	10.7	52	8.3	359.6	
1205	2nd	6.57	227	10.2	39	7.1	351.4	
1210	3rd	6.78	226	10.2	39	7.0	351.6	
1211	4th	6.91	226	10.1	43	7.0	353.4	
1214		6.96	226	10.1	41	6.9	354.4	
1217		7.00	226	10.1	46	6.9	355.5	
1220		7.03	226	10.1	50	6.9	356.6	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11/14/24	7.03	226	10.1	56	6.9	356.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: - Other: -

Weather Conditions (required daily, or as conditions change): Direction/Speed: - Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

10/5/40 psi

labelled as MW-35A

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Dezo	[signature]	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: ____ Sample Point: MW-36A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24		:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: ____

Filter Device: (Y) or N (0.45 µ) or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 31.70 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 02 (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1230	1st	6.58	133	9.7	31	7.2	95.1	
1235	2nd	5.94	125	9.6	30	4.0	100.4	
1238	3rd	5.94	125	9.6	30	4.0	100.8	
1241	4th	5.93	125	9.6	27	4.0	102.7	
1244		5.93	125	9.6	27	4.0	104.1	
1247		5.92	125	9.6	27	4.0	105.0	
1250		5.92	125	9.6	27	4.0	105.7	
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 14 24	5.92	125	9.6	27	4.0	105.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: - Color: - Other: -

Weather Conditions (required daily, or as conditions change): Direction/Speed: - Outlook: - Precipitation (Y) or N

Specific Comments (including purge/well volume calculations if required):

9/6/25 psi Dup 2 taken @ 1300 MW-36 31.80 DTW

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Jovany Estrada	JE	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-39 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24	14:05	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N (.45µ) or ____ µ (circle or fill in)

Filter Type: A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: C
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 21.04 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID 02 (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
14:05	1st	6.30	1.93	11.2	90	6.4	87	
14:10	2nd	6.10	2.97	11.5	76	0.7	-62.2	
14:13	3rd	6.10	2.95	11.7	1.73	0.6	-65.8	
14:16	4th	6.04	2.75	11.7	58	0.8	-54.2	
14:19		6.03	2.72	11.7	43	0.7	-54.6	
14:22		6.03	2.72	11.7	42	0.2	-59.6	
14:25		6.03	2.71	11.7	38	0.5	-60.8	
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 14 24	6.03	2.71	11.7	38	0.5	-60.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

11/4/35 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Jovany Estrada	JE	SCS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CVSL

Site No.:

Sample Point: MW-42 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
111324	1450	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or N — (0.45 µ) or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 27.16 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 02 (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1450	1st	6.14 1st	385	12.1	200	2.9	70	
1455	2nd	6.27 2nd	435	12.0	156	0.7	-73.9	
1458	3rd	6.31 3rd	442	12.0	281	0.5	-91.1	
1501	4th	6.33 4th	446	12.0	343	0.5	-100.1	
1504		6.36	448	12.0	426	0.5	-109.1	
1507		6.37	448	12.0	521	0.4	-114.2	
1510		6.38	451	11.9	650	0.4	-117.9	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
111324	6.38	451	11.9	650	0.4	-117.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — **Odor:** — **Color:** — **Other:** —

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** — **Outlook:** — **Precipitation:** (Y) or N

Specific Comments (including purge/well volume calculations if required):

96 40 psi App III 5 year

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11,13,24	Tovany Estrada	JE	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.:

Sample Point: MW-43 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	13:20	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 20.41 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 02 (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:20	1st	5.62 1st	54	11.3	1023	43	1238	
13:25	2nd	5.60 2nd	54	11.2	1240	38	1240	
13:28	3rd	5.59 3rd	54	11.2	1247	36	1248	
13:31	4th	5.59 4th	54	11.2	99	36	1255	
13:34		5.58	54	11.2	75	36	1259	
13:37		5.58	54	11.2	58	35	1260	
13:40		5.58	54	11.2	49	35	1263	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 13 24	5.58	54	11.2	49	35	1263	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — **Odor:** — **Color:** — **Other:** —

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** — **Outlook:** — **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

9 | 6 | 30 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Jovanny Estrada	JE	SCS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04204027.27
Site: OUSL
Well ID: LP-LC1D
Sample ID: LP-LC1D
Date: 11/19/24
Weather: Cloudy

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.26 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1130		5.6	3597	9.08	7.26	95.6	1.48	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C; Turb. ± 10% or ≤ 5

SAMPLER: Alex Deszo
Printed Name

Alex
Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	11/13/24					
Time	0950					
Weather (sky or precip, temp)	Cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1347	3.87	6.98	9.88		
Post Cal Reading	1413	4.00	7.00	8.50		
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	J. Estrada					
Instrument Type, ID	(YSI Pro DDS) / YSI 556 / (Rental)				YSI Pro DDS / HACH2000	
Calibration Location	Leachate sampling point					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	11/13/24					
Time	0954					
Weather (sky or precip, temp)	Cloudy Rain					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1.088	4.17	6.99	10.47		
Post Cal Reading	1.413	4.00	7.00	8.5		
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	AMM					
Instrument Type, ID	YSI Pro DDS / YSI 556 / (Rental)				YSI Pro DDS / HACH2000	
Calibration Location	BUSL leachate pond lot					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	10/14/24					
Time	0830					
Weather (sky or precip, temp)	cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1416	4.03	6.97	8.98		
Post Cal Reading	1413	4.00	7.00	8.50		
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Mayra T. Estrada					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	MW-4					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	11/14/24					
Time	0835					
Weather (sky or precip, temp)	Cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1428	4.03	7.04	8.73	—	
Post Cal Reading	1413	4.00	7.00	8.5	—	
Descrepancy	NO					
Calib. Successful?	Yes					
Calibration by	AMD					
Instrument Type, ID	YSI Pro DDS / YSI 556 / (Rental)				YSI (Pro DDS) / HACH2000	
Calibration Location	OKL					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

Appendix B

November 2024 Data Validation & Analytical Data Reports

DATA VALIDATION REPORT – OLYMPIC VIEW SANITARY LANDFILL 2024 – SEMI-ANNUAL EVENT NO.2

Project Details

Project No.	04204027.27	**Site Name**	Olympic View Sanitary Landfill
Data Validator	Jovany Estrada	**Data Level**	Level II
Date	12/15/2024	**DV Tier**	Tier I
QA Document	Olympic View Sanitary Landfill Sampling Analysis Plan-rev 1.1, August 2, 2017		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
280-199586-1	No comments.	TestAmerica, Denver CO
280-199595-1	No comments.	TestAmerica, Denver CO
280-199598-1	No comments.	TestAmerica, Denver CO
280-199650-1	No comments.	TestAmerica, Denver CO
280-199988-1	No comments.	TestAmerica, Denver CO

Analytical Summary

Sample Group	Analyses						
	Qtrly General Chemistry[1]	Qtrly Metals	Qtrly VOCs	TSS	BOD/COD	L Pond Analytes[2]	3 Year[3] / 5 Year[4] Chemistry
280-199586-1	X	X	X	X	--	--	
280-199595-1	X	X	X	X	--	--	X[4]
280-199598-1	X	X	X	X	--	--	X[3]
280-199650-1	X	X	X	X	--	--	X[4]
280-199988-1	X	X	X	X	X	--	--
280-199902-1	--	--	--	--	--	X	--
280-200191-1	--	--	--	--	--	X	--
280-200191-1	--	--	--	--	--	X	--
280-199897-1	--	--	--	--	--	X	--

[1] General Chemistry (NO_3, Cl, SO_4, NH_3, Alkalinity, Bicarbonate, TDS, TOC)

[2] L Pond analytes (pH, Total metals, TSS, BOD, COD) - not collected by SCS

[3] 3 Year Chemistry (Total Ni, Hg, Sn; Organochlorine Pesticides, Organophosphorous Pesticides, Semivolatile Organic Compounds, Total Cyanide, Total Sulfide)

[4] 5 Year Chemistry (Total Hg, Organochlorine Pesticides, Polychlorinated Biphenyls, Organophosphourous Compounds, Herbicides, Total Cyanide, Total Sulfide)

Laboratory Quality Assurance Samples

Lab QA Samples	Notes	Comments
Surrogates/Organics	See case narrative.	All data acceptable and/or within established control limits.
MB	See case narrative.	All data acceptable and/or within established control limits.
DUP	See case narrative.	All data acceptable and/or within established control limits.
LCS/LCSD	See case narrative.	All data acceptable and/or within established control limits.
MS/MSD	See case narrative.	All data acceptable and/or within established control limits.
General Chemistry	See case narrative.	All data acceptable and/or within established control limits.
Metals	See case narrative.	All data acceptable and/or within established control limits.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Trip Blank	280-199650-1	N/A	
Trip Blank	280-199595-1	N/A	
Trip Blank	180-199598-1	N/A	

Detailed Field Replicate Evaluation

Analyte	Units	MW-29A	MW-29A (DUP-1)	RPD (%)	MW-36A	MW-36A (DUP-2)	RPD (%)
Alkalinity, Bicarbonate (As CaCO3)	mg/L	36	36	0.0	59	62	4.96
Alkalinity, Total (As CaCO3)	mg/L	36	36	0.0	59	62	4.96
Ammonia (As N)	mg/L	0.03	0.061	68.1	0.03 U	0.03 U	0.00
Barium, Total	mg/L	0.0052	0.0052	0.0	0.0021	0.0024	13.33
Calcium, Dissolved	mg/L	6.2	6.2	0.0	10	9.9	1.01
Chromium, Total	mg/L	0.03 U	0.03 U	0.0	0.0095	0.0094	1.06
Iron, Dissolved	mg/L	3.7	3.9	5.3	0.06 U	0.06 U	0.00
Iron, Total	mg/L	3.6	3.7	2.7	0.06 U	0.06 U	0.00
Magnesium, Dissolved	mg/L	3.8	3.8	0.0	6.9	6.7	2.94
Manganese, Dissolved	mg/L	1.2	1.2	0.0	0.001 U	0.001 U	0.00
Manganese, Total	mg/L	1.2	1.1	8.7	0.001 U	0.001 U	0.00
Nitrate (As N)	mg/L	0.05	0.05	0.0	0.46	0.47	2.15
Potassium, Dissolved	mg/L	1 U	1 U	0.0	1 U	1.1	9.52
Sodium, Dissolved	mg/L	3.5	3.5	0.0	6.4	6.2	3.17
Total Dissolved Solids (TDS)	mg/L	56	57	1.8	100	100	0.00
Total Organic Carbon (TOC)	mg/L	1	2.1	71.0	1	1.1	9.52
Vanadium, Total	mg/L	0.002 U	0.002 U	0.0	0.0025	0.0023	8.33

* RPD based on result as compared to the Reporting Limit (RL) for a non-detection in the compared sample

U = Result was not detected at or above a concentration greater than the RL. Value provided is the RL for the given sample.

NA = Not applicable. Compared samples were below the RL for a given parameter.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

B = Compound was found in the blank and sample.

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
*+	LCS and/or LCSD is outside acceptance limits, high biased.	280-199586-1, 280-199595-1, 280-199650-1
*1	LCS/LCSD RPD exceeds control limits.	280-199586-1, 280-199595-1, 280-199598-1, 280-200191-1, 280-199902-1
*-	LCS and/or LCSD is outside acceptance limits, low biased.	280-199595-1, 280-199598-1, 280-199650-1, 280-200531-1,
F1	MS and/or MSD recovery exceeds control limits.	280-199595-1, 280-199598-1, 280-199650-1, 280-200531-1, 280-199902-1, 280-199988-1
^+	Continuing Calibration Verification (CCV is outside acceptance limits, high biased.	280-199902-1

Lab Qualifiers	Description	Lab Group
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	280-199586-1, 280-199650-1, 280-200191-1, 280-199902-1, 280-199988-1
D	Sampel results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from the diluted samples.	280-200531-1
E	Result exceeded the calibration range.	280-199595-1, 280-199650-1, 280-200191-1, 280-200531-1, 280-199988-1
F2	MS/MSRPD exceeds control limits	280-200191-1280-200531-1,
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	280-199595-1, 280-199598-1, 280-199650-1, 280-200531-1,
H	Sample was prepped or analyzed beyond the specified holding tome. This does not meet regulatory requirements.	280-199586-1, 280-199988-1
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.	280-199897-1
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.	280-199988-1

Additional Qualifier Definitions

Qualifiers	Description	Lab Group
U	Analyte was not detected above the applicable RL or MDL.	

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

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JOB DESCRIPTION

WA02|Olympic View Sanitary LF - Groundwater
Semiannual GW AppI/II - May Nov

JOB NUMBER

280-199586-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

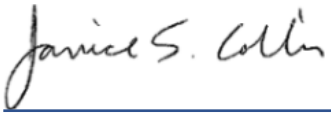
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

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

Job ID: 280-199586-1 Eurofins Denver

Job Narrative
280-199586-1

Revision
The report being provided is a revision of the original report sent on 12/6/2024. The report (revision 1) is being revised to include subcontract data for Low level Arsenic from Analytical Resources, LLC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 11/14/2024 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.1°C, 3.0°C, 3.5°C, 5.2°C and 5.7°C.

Receipt Exceptions
The 250ml sulfuric acid preserved amber glass container for the following sample was received broken: MW-29 (280-199586-15). No volume was left so the Ammonia and TOC analyses were not logged.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 280-675947 recovered outside control limits for the following analytes: trans-1,4-Dichloro-2-butene. These analytes were biased high in the LCS and/or the LCSD and were not detected in the associated samples; therefore, the data have been reported. MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15), DUP1 (280-199586-16) and (LCS 280-675947/4)

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-675947 recovered outside control limits for the following analytes: Ethyl ether. The LCS and LCSD are both within control limits, only the RPD is outside of limits. MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15), DUP1 (280-199586-16) and (LCSD 280-675947/5)

Method 8260D: The initial calibration verification (ICV) result for batch 280-675947 was above the upper control limit. The affected analytes are: Acrolein. Sample results were non-detects, and have been reported as qualified data. MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15) and DUP1 (280-199586-16)

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-675947 recovered outside the control limits for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15) and DUP1 (280-199586-16).

Job ID: 280-199586-1 (Continued) Eurofins Denver

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-675947. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15) and DUP1 (280-199586-16)

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-675947 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCV 280-675947/2)

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-675947 recovered above the upper control limit for trans-1,4-Dichloro-2-butene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCV 280-675947/2)

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-675947 recovered above the upper control limit for Acetonitrile, Ethyl acetate and Methacrylonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCV 280-675947/3)

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples in batch 280-675947 was received preserved with hydrochloric acid: MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15) and DUP1 (280-199586-16). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium. MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15) and DUP1 (280-199586-16)

Method 8260D_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-675316.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.The associated samples are: MW-34C (280-199586-9), MW-42 (280-199586-10), MW-32 (280-199586-11), MW-19C (280-199586-12), MW-34A (280-199586-13), MW-43 (280-199586-14), MW-29 (280-199586-15) and DUP1 (280-199586-16)

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

Metals
Method 6010D - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Co: MW-34C (280-199586-9). Sample was re-prepped, re-digested and reanalysis was performed, and the result(s) confirmed.

Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-675213 and analytical batch 280-675612 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference, high targets and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Mn: MW-42 (280-199586-10). However, the result is within 10% variance from the historical range.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Ba, Cd, Zn: MW-34C (280-199586-9). Reanalysis (bottle check) was performed, and the result(s) confirmed.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Cr: MW-34A (280-199586-13). Reanalysis (bottle check) was performed, and the result(s) confirmed.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site: MW-34C (280-199586-9). Reprep and Reanalysis was performed, and the result(s) confirmed.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site: MW-34C (280-199586-9). Reprep and Reanalysis was performed, and the result(s) confirmed.

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

Job ID: 280-199586-1 (Continued) Eurofins Denver

General Chemistry
Method 2540D: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of historical data parameters: MW-42 (280-199586-10).

Method 300.0_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-677158 were outside control limits for Chloride and Sulfate . See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 350.1: The results reported for the following samples do not concur with results previously reported for this site: MW-32 (280-199586-11). However, the result is within 10% variance from the historical range.

Method SM5310B: The results reported for the following samples do not concur with results previously reported for this site: MW-34A (280-199586-13). Reanalysis was performed, and the results confirmed.

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

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

Detection Summary

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-34C — Lab Sample ID: 280-199586-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Total	0.025		0.0030		mg/L	1		6010D	Total Recoverable
Iron, Total	38		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	18		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	0.56		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	7.8		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.2		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	9.5		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.34		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium, Total	0.00049		0.00030		mg/L	1		6020B	Total Recoverable
Copper, Total	0.0044		0.0020		mg/L	1		6020B	Total Recoverable
Manganese, Total	37		0.10		mg/L	100		6020B	Total Recoverable
Nickel, Total	0.0050		0.0040		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0093		0.0020		mg/L	1		6020B	Total Recoverable
Zinc, Total	0.010		0.0050		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.38		0.0010		mg/L	1		6020B	Dissolved
Chloride	3.5		3.0		mg/L	1		300.0	Total/NA
Ammonia (as N)	0.042		0.030		mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	86		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	86		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	150		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	48		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon - Average	1.8		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	42.22				ft	1		Field Sampling	Total/NA
Specific Conductivity	186				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.7				mg/L	1		Field Sampling	Total/NA
eH	-25.4				millivolts	1		Field Sampling	Total/NA
Turbidity	247.9				NTU	1		Field Sampling	Total/NA
Temperature	12.4				Degrees C	1		Field Sampling	Total/NA
pH	6.45				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-42 — Lab Sample ID: 280-199586-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.033		0.020		ug/L	1		8260D SIM	Total/NA
Iron, Total	20		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	40		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	23		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	14		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	8.6		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	17		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.081		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	3.0		0.010		mg/L	10		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-42 (Continued) — Lab Sample ID: 280-199586-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese, Dissolved	3.4		0.0010		mg/L	1		6020B	Dissolved
Chloride	8.9		3.0		mg/L	1		300.0	Total/NA
Sulfate	7.3		5.0		mg/L	1		300.0	Total/NA
Ammonia (as N)	2.5		0.030		mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	180		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	180		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	230		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	28	H	4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon - Average	5.6		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	27.16				ft	1		Field Sampling	Total/NA
Specific Conductivity	451				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.4				mg/L	1		Field Sampling	Total/NA
eH	-117.9				millivolts	1		Field Sampling	Total/NA
Turbidity	65.0				NTU	1		Field Sampling	Total/NA
Temperature	11.9				Degrees C	1		Field Sampling	Total/NA
pH	6.38				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-32 — Lab Sample ID: 280-199586-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.16		0.020		ug/L	1		8260D SIM	Total/NA
Iron, Total	0.69		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	30		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	0.68		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	15		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.2		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	11		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0054		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	2.1		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	2.2		0.0010		mg/L	1		6020B	Dissolved
Chloride	8.7		3.0		mg/L	1		300.0	Total/NA
Sulfate	13		5.0		mg/L	1		300.0	Total/NA
Ammonia (as N)	0.15		0.030		mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	140		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	140		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	210		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	1.6		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	1.51				ft	1		Field Sampling	Total/NA
Specific Conductivity	308				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.8				mg/L	1		Field Sampling	Total/NA
eH	287.6				millivolts	1		Field Sampling	Total/NA
Turbidity	3.4				NTU	1		Field Sampling	Total/NA
Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
pH	6.56				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-19C — Lab Sample ID: 280-199586-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron, Total	0.15		0.060		mg/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-19C (Continued) — Lab Sample ID: 280-199586-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	14		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	0.12		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	7.5		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.3		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	5.7		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0033		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	1.0		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	1.0		0.0010		mg/L	1		6020B	Dissolved
Ammonia (as N)	0.43		0.030		mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	72		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	72		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	100		5.0		mg/L	1		SM 2540C	Total/NA
Depth to water	34.65				ft	1		Field Sampling	Total/NA
Specific Conductivity	179				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	1.1				mg/L	1		Field Sampling	Total/NA
eH	302.9				millivolts	1		Field Sampling	Total/NA
Turbidity	3.6				NTU	1		Field Sampling	Total/NA
Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
pH	6.30				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-34A — Lab Sample ID: 280-199586-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	19		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	9.5		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	9.7		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0044		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.0014		0.0010		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0041		0.0020		mg/L	1		6020B	Total Recoverable
Chloride	3.8		3.0		mg/L	1		300.0	Total/NA
Nitrate as N	0.89		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	91		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	91		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	140		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	1.6		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	40.40				ft	1		Field Sampling	Total/NA
Specific Conductivity	206				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.7				mg/L	1		Field Sampling	Total/NA
eH	7.5				millivolts	1		Field Sampling	Total/NA
Turbidity	3.1				NTU	1		Field Sampling	Total/NA
Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
pH	6.14				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-43 — Lab Sample ID: 280-199586-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron, Total	0.13		0.060		mg/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-43 (Continued) — Lab Sample ID: 280-199586-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	4.8		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	2.0		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	2.8		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0038		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.0091		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.0035		0.0010		mg/L	1		6020B	Dissolved
Nitrate as N	0.78		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	21		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	21		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	39		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	1.8		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	20.41				ft	1		Field Sampling	Total/NA
Specific Conductivity	54				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	3.5				mg/L	1		Field Sampling	Total/NA
eH	126.3				millivolts	1		Field Sampling	Total/NA
Turbidity	4.9				NTU	1		Field Sampling	Total/NA
Temperature	11.2				Degrees C	1		Field Sampling	Total/NA
pH	5.58				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-29 — Lab Sample ID: 280-199586-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron, Total	3.6		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	6.2		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	3.7		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	3.8		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	3.5		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0052		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	1.2		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	1.2		0.0010		mg/L	1		6020B	Dissolved
Alkalinity, Total (As CaCO3)	36		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	36		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	56		5.0		mg/L	1		SM 2540C	Total/NA
Depth to water	12.69				ft	1		Field Sampling	Total/NA
Specific Conductivity	103				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.9				mg/L	1		Field Sampling	Total/NA
eH	263.8				millivolts	1		Field Sampling	Total/NA
Turbidity	4.0				NTU	1		Field Sampling	Total/NA
Temperature	11.0				Degrees C	1		Field Sampling	Total/NA
pH	5.98				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP1 — Lab Sample ID: 280-199586-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron, Total	3.7		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	6.2		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	3.9		0.060		mg/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP1 (Continued)
Lab Sample ID: 280-199586-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium, Dissolved	3.8		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	3.5		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0052		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	1.1		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	1.2		0.0010		mg/L	1		6020B	Dissolved
Ammonia (as N)	0.061		0.030		mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	36		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	36		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	57		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	2.1		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	12.69				ft	1		Field Sampling	Total/NA
Specific Conductivity	103				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.9				mg/L	1		Field Sampling	Total/NA
eH	263.8				millivolts	1		Field Sampling	Total/NA
Turbidity	4.0				NTU	1		Field Sampling	Total/NA
Temperature	11.0				Degrees C	1		Field Sampling	Total/NA
pH	5.98				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
6020B	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrate	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199586-9	MW-34C	Water	11/13/24 11:35	11/14/24 09:05
280-199586-10	MW-42	Water	11/13/24 15:10	11/14/24 09:05
280-199586-11	MW-32	Water	11/13/24 12:20	11/14/24 09:05
280-199586-12	MW-19C	Water	11/13/24 11:05	11/14/24 09:05
280-199586-13	MW-34A	Water	11/13/24 12:40	11/14/24 09:05
280-199586-14	MW-43	Water	11/13/24 13:40	11/14/24 09:05
280-199586-15	MW-29	Water	11/13/24 13:38	11/14/24 09:05
280-199586-16	DUP1	Water	11/13/24 13:48	11/14/24 09:05

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

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*11/15/24 15:52*	*1*

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.033**		0.020		ug/L			11/15/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*11/15/24 16:13*	*1*

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.16**		0.020		ug/L			11/15/24 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*11/15/24 16:35*	*1*

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*11/15/24 16:56*	*1*

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 17:17*	*1*

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*11/15/24 17:38*	*1*

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

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*11/15/24 17:59*	*1*

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 18:21*	*1*

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

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 21:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 21:44	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 21:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 21:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 21:44	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 21:44	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 21:44	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 21:44	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 21:44	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 21:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 21:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 21:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 21:44	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 21:44	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 21:44	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 21:44	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 21:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 21:44	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 21:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 21:44	1
1,4-Dioxane	ND		40		ug/L			11/20/24 21:44	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 21:44	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 21:44	1
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 21:44	1
2-Hexanone	ND		5.0		ug/L			11/20/24 21:44	1
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 21:44	1
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 21:44	1
p-Cymene	ND		1.0		ug/L			11/20/24 21:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 21:44	1

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

Client Sample ID: MW-34C
Lab Sample ID: 280-199586-9
Date Collected: 11/13/24 11:35
Matrix: Water
Date Received: 11/14/24 09:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15		ug/L			11/20/24 21:44	1
Acetonitrile	ND		30		ug/L			11/20/24 21:44	1
Acrolein	ND		20		ug/L			11/20/24 21:44	1
Acrylonitrile	ND		20		ug/L			11/20/24 21:44	1
Benzene	ND		1.0		ug/L			11/20/24 21:44	1
Bromobenzene	ND		1.0		ug/L			11/20/24 21:44	1
Bromoform	ND		2.0		ug/L			11/20/24 21:44	1
Bromomethane	ND		5.0		ug/L			11/20/24 21:44	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 21:44	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 21:44	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 21:44	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 21:44	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 21:44	1
Chloroethane	ND		2.0		ug/L			11/20/24 21:44	1
Chloroform	ND		1.0		ug/L			11/20/24 21:44	1
Chloromethane	ND		2.0		ug/L			11/20/24 21:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 21:44	1
Cyclohexane	ND		1.0		ug/L			11/20/24 21:44	1
Dibromomethane	ND		1.0		ug/L			11/20/24 21:44	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 21:44	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 21:44	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 21:44	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 21:44	1
Ethyl ether	ND	*1	2.0		ug/L			11/20/24 21:44	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 21:44	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 21:44	1
Hexane	ND		2.0		ug/L			11/20/24 21:44	1
Iodomethane	ND		5.0		ug/L			11/20/24 21:44	1
Isobutanol	ND		110		ug/L			11/20/24 21:44	1
Isopropyl ether	ND		10		ug/L			11/20/24 21:44	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
Methacrylonitrile	ND		15		ug/L			11/20/24 21:44	1
Methyl acetate	ND		5.0		ug/L			11/20/24 21:44	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 21:44	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 21:44	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 21:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 21:44	1
Naphthalene	ND		3.0		ug/L			11/20/24 21:44	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 21:44	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
o-Xylene	ND		1.0		ug/L			11/20/24 21:44	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
Tetrachloroethene	ND		1.0		ug/L			11/20/24 21:44	1
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 21:44	1
Toluene	ND		1.0		ug/L			11/20/24 21:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 21:44	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 21:44	1

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

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/20/24 21:44	1
Trichloroethene	ND		1.0		ug/L			11/20/24 21:44	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 21:44	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 21:44	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 21:44	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 21:44	1
Styrene	ND		1.0		ug/L			11/20/24 21:44	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 21:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 21:44	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*11/20/24 21:44*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*11/20/24 21:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*11/20/24 21:44*	*1*

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 22:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 22:05	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 22:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 22:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 22:05	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 22:05	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 22:05	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 22:05	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 22:05	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 22:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 22:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 22:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:05	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 22:05	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 22:05	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 22:05	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 22:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:05	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 22:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:05	1
1,4-Dioxane	ND		40		ug/L			11/20/24 22:05	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 22:05	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 22:05	1
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 22:05	1
2-Hexanone	ND		5.0		ug/L			11/20/24 22:05	1
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 22:05	1
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 22:05	1
p-Cymene	ND		1.0		ug/L			11/20/24 22:05	1

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

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 22:05	1
Acetone	ND		15		ug/L			11/20/24 22:05	1
Acetonitrile	ND		30		ug/L			11/20/24 22:05	1
Acrolein	ND		20		ug/L			11/20/24 22:05	1
Acrylonitrile	ND		20		ug/L			11/20/24 22:05	1
Benzene	ND		1.0		ug/L			11/20/24 22:05	1
Bromobenzene	ND		1.0		ug/L			11/20/24 22:05	1
Bromoform	ND		2.0		ug/L			11/20/24 22:05	1
Bromomethane	ND		5.0		ug/L			11/20/24 22:05	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 22:05	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 22:05	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 22:05	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 22:05	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 22:05	1
Chloroethane	ND		2.0		ug/L			11/20/24 22:05	1
Chloroform	ND		1.0		ug/L			11/20/24 22:05	1
Chloromethane	ND		2.0		ug/L			11/20/24 22:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 22:05	1
Cyclohexane	ND		1.0		ug/L			11/20/24 22:05	1
Dibromomethane	ND		1.0		ug/L			11/20/24 22:05	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 22:05	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 22:05	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 22:05	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 22:05	1
Ethyl ether	ND	*1	2.0		ug/L			11/20/24 22:05	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 22:05	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 22:05	1
Hexane	ND		2.0		ug/L			11/20/24 22:05	1
Iodomethane	ND		5.0		ug/L			11/20/24 22:05	1
Isobutanol	ND		110		ug/L			11/20/24 22:05	1
Isopropyl ether	ND		10		ug/L			11/20/24 22:05	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
Methacrylonitrile	ND		15		ug/L			11/20/24 22:05	1
Methyl acetate	ND		5.0		ug/L			11/20/24 22:05	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 22:05	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 22:05	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 22:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 22:05	1
Naphthalene	ND		3.0		ug/L			11/20/24 22:05	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 22:05	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
o-Xylene	ND		1.0		ug/L			11/20/24 22:05	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
Tetrachloroethene	ND		1.0		ug/L			11/20/24 22:05	1
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 22:05	1
Toluene	ND		1.0		ug/L			11/20/24 22:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 22:05	1

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

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 22:05	1
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/20/24 22:05	1
Trichloroethene	ND		1.0		ug/L			11/20/24 22:05	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 22:05	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 22:05	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 22:05	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 22:05	1
Styrene	ND		1.0		ug/L			11/20/24 22:05	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 22:05	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 22:05	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*		*11/20/24 22:05*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*11/20/24 22:05*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*11/20/24 22:05*	*1*

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 22:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 22:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 22:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 22:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 22:26	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 22:26	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 22:26	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 22:26	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 22:26	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 22:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 22:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 22:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:26	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 22:26	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 22:26	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 22:26	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 22:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:26	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 22:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:26	1
1,4-Dioxane	ND		40		ug/L			11/20/24 22:26	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 22:26	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 22:26	1
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 22:26	1
2-Hexanone	ND		5.0		ug/L			11/20/24 22:26	1
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 22:26	1
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 22:26	1

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

Client Sample ID: MW-32
Lab Sample ID: 280-199586-11
Date Collected: 11/13/24 12:20
Matrix: Water
Date Received: 11/14/24 09:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene	ND		1.0		ug/L			11/20/24 22:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 22:26	1
Acetone	ND		15		ug/L			11/20/24 22:26	1
Acetonitrile	ND		30		ug/L			11/20/24 22:26	1
Acrolein	ND		20		ug/L			11/20/24 22:26	1
Acrylonitrile	ND		20		ug/L			11/20/24 22:26	1
Benzene	ND		1.0		ug/L			11/20/24 22:26	1
Bromobenzene	ND		1.0		ug/L			11/20/24 22:26	1
Bromoform	ND		2.0		ug/L			11/20/24 22:26	1
Bromomethane	ND		5.0		ug/L			11/20/24 22:26	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 22:26	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 22:26	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 22:26	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 22:26	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 22:26	1
Chloroethane	ND		2.0		ug/L			11/20/24 22:26	1
Chloroform	ND		1.0		ug/L			11/20/24 22:26	1
Chloromethane	ND		2.0		ug/L			11/20/24 22:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 22:26	1
Cyclohexane	ND		1.0		ug/L			11/20/24 22:26	1
Dibromomethane	ND		1.0		ug/L			11/20/24 22:26	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 22:26	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 22:26	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 22:26	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 22:26	1
Ethyl ether	ND	*1	2.0		ug/L			11/20/24 22:26	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 22:26	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 22:26	1
Hexane	ND		2.0		ug/L			11/20/24 22:26	1
Iodomethane	ND		5.0		ug/L			11/20/24 22:26	1
Isobutanol	ND		110		ug/L			11/20/24 22:26	1
Isopropyl ether	ND		10		ug/L			11/20/24 22:26	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
Methacrylonitrile	ND		15		ug/L			11/20/24 22:26	1
Methyl acetate	ND		5.0		ug/L			11/20/24 22:26	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 22:26	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 22:26	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 22:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 22:26	1
Naphthalene	ND		3.0		ug/L			11/20/24 22:26	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 22:26	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
o-Xylene	ND		1.0		ug/L			11/20/24 22:26	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
Tetrachloroethene	ND		1.0		ug/L			11/20/24 22:26	1
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 22:26	1
Toluene	ND		1.0		ug/L			11/20/24 22:26	1

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

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 22:26	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 22:26	1
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/20/24 22:26	1
Trichloroethene	ND		1.0		ug/L			11/20/24 22:26	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 22:26	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 22:26	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 22:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 22:26	1
Styrene	ND		1.0		ug/L			11/20/24 22:26	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 22:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 22:26	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*11/20/24 22:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*11/20/24 22:26*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/20/24 22:26*	*1*

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 22:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 22:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 22:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 22:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 22:47	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 22:47	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 22:47	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 22:47	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 22:47	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 22:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 22:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 22:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:47	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 22:47	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 22:47	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 22:47	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 22:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:47	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 22:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 22:47	1
1,4-Dioxane	ND		40		ug/L			11/20/24 22:47	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 22:47	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 22:47	1
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 22:47	1
2-Hexanone	ND		5.0		ug/L			11/20/24 22:47	1
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 22:47	1

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

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 22:47	1
p-Cymene	ND		1.0		ug/L			11/20/24 22:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 22:47	1
Acetone	ND		15		ug/L			11/20/24 22:47	1
Acetonitrile	ND		30		ug/L			11/20/24 22:47	1
Acrolein	ND		20		ug/L			11/20/24 22:47	1
Acrylonitrile	ND		20		ug/L			11/20/24 22:47	1
Benzene	ND		1.0		ug/L			11/20/24 22:47	1
Bromobenzene	ND		1.0		ug/L			11/20/24 22:47	1
Bromoform	ND		2.0		ug/L			11/20/24 22:47	1
Bromomethane	ND		5.0		ug/L			11/20/24 22:47	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 22:47	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 22:47	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 22:47	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 22:47	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 22:47	1
Chloroethane	ND		2.0		ug/L			11/20/24 22:47	1
Chloroform	ND		1.0		ug/L			11/20/24 22:47	1
Chloromethane	ND		2.0		ug/L			11/20/24 22:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 22:47	1
Cyclohexane	ND		1.0		ug/L			11/20/24 22:47	1
Dibromomethane	ND		1.0		ug/L			11/20/24 22:47	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 22:47	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 22:47	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 22:47	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 22:47	1
Ethyl ether	ND	*1	2.0		ug/L			11/20/24 22:47	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 22:47	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 22:47	1
Hexane	ND		2.0		ug/L			11/20/24 22:47	1
Iodomethane	ND		5.0		ug/L			11/20/24 22:47	1
Isobutanol	ND		110		ug/L			11/20/24 22:47	1
Isopropyl ether	ND		10		ug/L			11/20/24 22:47	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
Methacrylonitrile	ND		15		ug/L			11/20/24 22:47	1
Methyl acetate	ND		5.0		ug/L			11/20/24 22:47	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 22:47	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 22:47	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 22:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 22:47	1
Naphthalene	ND		3.0		ug/L			11/20/24 22:47	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 22:47	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
o-Xylene	ND		1.0		ug/L			11/20/24 22:47	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
Tetrachloroethene	ND		1.0		ug/L			11/20/24 22:47	1
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 22:47	1

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

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			11/20/24 22:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 22:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 22:47	1
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/20/24 22:47	1
Trichloroethene	ND		1.0		ug/L			11/20/24 22:47	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 22:47	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 22:47	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 22:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 22:47	1
Styrene	ND		1.0		ug/L			11/20/24 22:47	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 22:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 22:47	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*11/20/24 22:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*11/20/24 22:47*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*11/20/24 22:47*	*1*

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 23:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 23:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 23:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 23:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 23:08	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 23:08	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 23:08	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 23:08	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 23:08	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 23:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 23:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 23:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:08	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 23:08	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 23:08	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 23:08	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 23:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:08	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 23:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:08	1
1,4-Dioxane	ND		40		ug/L			11/20/24 23:08	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 23:08	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 23:08	1
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 23:08	1
2-Hexanone	ND		5.0		ug/L			11/20/24 23:08	1

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

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 23:08	1
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 23:08	1
p-Cymene	ND		1.0		ug/L			11/20/24 23:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 23:08	1
Acetone	ND		15		ug/L			11/20/24 23:08	1
Acetonitrile	ND		30		ug/L			11/20/24 23:08	1
Acrolein	ND		20		ug/L			11/20/24 23:08	1
Acrylonitrile	ND		20		ug/L			11/20/24 23:08	1
Benzene	ND		1.0		ug/L			11/20/24 23:08	1
Bromobenzene	ND		1.0		ug/L			11/20/24 23:08	1
Bromoform	ND		2.0		ug/L			11/20/24 23:08	1
Bromomethane	ND		5.0		ug/L			11/20/24 23:08	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 23:08	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 23:08	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 23:08	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 23:08	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 23:08	1
Chloroethane	ND		2.0		ug/L			11/20/24 23:08	1
Chloroform	ND		1.0		ug/L			11/20/24 23:08	1
Chloromethane	ND		2.0		ug/L			11/20/24 23:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 23:08	1
Cyclohexane	ND		1.0		ug/L			11/20/24 23:08	1
Dibromomethane	ND		1.0		ug/L			11/20/24 23:08	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 23:08	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 23:08	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 23:08	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 23:08	1
Ethyl ether	ND	*1	2.0		ug/L			11/20/24 23:08	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 23:08	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 23:08	1
Hexane	ND		2.0		ug/L			11/20/24 23:08	1
Iodomethane	ND		5.0		ug/L			11/20/24 23:08	1
Isobutanol	ND		110		ug/L			11/20/24 23:08	1
Isopropyl ether	ND		10		ug/L			11/20/24 23:08	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
Methacrylonitrile	ND		15		ug/L			11/20/24 23:08	1
Methyl acetate	ND		5.0		ug/L			11/20/24 23:08	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 23:08	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 23:08	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 23:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 23:08	1
Naphthalene	ND		3.0		ug/L			11/20/24 23:08	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 23:08	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
o-Xylene	ND		1.0		ug/L			11/20/24 23:08	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
Tetrachloroethene	ND		1.0		ug/L			11/20/24 23:08	1

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

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 23:08	1
Toluene	ND		1.0		ug/L			11/20/24 23:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 23:08	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 23:08	1
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/20/24 23:08	1
Trichloroethene	ND		1.0		ug/L			11/20/24 23:08	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 23:08	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 23:08	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 23:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 23:08	1
Styrene	ND		1.0		ug/L			11/20/24 23:08	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 23:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 23:08	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*11/20/24 23:08*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*11/20/24 23:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/20/24 23:08*	*1*

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 23:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 23:29	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 23:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 23:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 23:29	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 23:29	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 23:29	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 23:29	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 23:29	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 23:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 23:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 23:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 23:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:29	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 23:29	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 23:29	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 23:29	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 23:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 23:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:29	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 23:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:29	1
1,4-Dioxane	ND		40		ug/L			11/20/24 23:29	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 23:29	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 23:29	1
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 23:29	1

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

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0		ug/L			11/20/24 23:29	1
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 23:29	1
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 23:29	1
p-Cymene	ND		1.0		ug/L			11/20/24 23:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 23:29	1
Acetone	ND		15		ug/L			11/20/24 23:29	1
Acetonitrile	ND		30		ug/L			11/20/24 23:29	1
Acrolein	ND		20		ug/L			11/20/24 23:29	1
Acrylonitrile	ND		20		ug/L			11/20/24 23:29	1
Benzene	ND		1.0		ug/L			11/20/24 23:29	1
Bromobenzene	ND		1.0		ug/L			11/20/24 23:29	1
Bromoform	ND		2.0		ug/L			11/20/24 23:29	1
Bromomethane	ND		5.0		ug/L			11/20/24 23:29	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 23:29	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 23:29	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 23:29	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 23:29	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 23:29	1
Chloroethane	ND		2.0		ug/L			11/20/24 23:29	1
Chloroform	ND		1.0		ug/L			11/20/24 23:29	1
Chloromethane	ND		2.0		ug/L			11/20/24 23:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 23:29	1
Cyclohexane	ND		1.0		ug/L			11/20/24 23:29	1
Dibromomethane	ND		1.0		ug/L			11/20/24 23:29	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 23:29	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 23:29	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 23:29	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 23:29	1
Ethyl ether	ND	*1	2.0		ug/L			11/20/24 23:29	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 23:29	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 23:29	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 23:29	1
Hexane	ND		2.0		ug/L			11/20/24 23:29	1
Iodomethane	ND		5.0		ug/L			11/20/24 23:29	1
Isobutanol	ND		110		ug/L			11/20/24 23:29	1
Isopropyl ether	ND		10		ug/L			11/20/24 23:29	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 23:29	1
Methacrylonitrile	ND		15		ug/L			11/20/24 23:29	1
Methyl acetate	ND		5.0		ug/L			11/20/24 23:29	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 23:29	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 23:29	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 23:29	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 23:29	1
Naphthalene	ND		3.0		ug/L			11/20/24 23:29	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 23:29	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 23:29	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 23:29	1
o-Xylene	ND		1.0		ug/L			11/20/24 23:29	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 23:29	1

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

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0		ug/L			11/20/24 23:29	1
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 23:29	1
Toluene	ND		1.0		ug/L			11/20/24 23:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 23:29	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 23:29	1
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/20/24 23:29	1
Trichloroethene	ND		1.0		ug/L			11/20/24 23:29	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 23:29	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 23:29	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 23:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 23:29	1
Styrene	ND		1.0		ug/L			11/20/24 23:29	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 23:29	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 23:29	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*11/20/24 23:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*11/20/24 23:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/20/24 23:29*	*1*

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 23:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 23:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 23:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 23:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 23:50	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 23:50	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 23:50	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 23:50	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 23:50	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 23:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 23:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 23:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:50	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 23:50	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 23:50	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 23:50	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 23:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:50	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 23:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 23:50	1
1,4-Dioxane	ND		40		ug/L			11/20/24 23:50	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 23:50	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 23:50	1

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

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 23:50	1
2-Hexanone	ND		5.0		ug/L			11/20/24 23:50	1
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 23:50	1
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 23:50	1
p-Cymene	ND		1.0		ug/L			11/20/24 23:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 23:50	1
Acetone	ND		15		ug/L			11/20/24 23:50	1
Acetonitrile	ND		30		ug/L			11/20/24 23:50	1
Acrolein	ND		20		ug/L			11/20/24 23:50	1
Acrylonitrile	ND		20		ug/L			11/20/24 23:50	1
Benzene	ND		1.0		ug/L			11/20/24 23:50	1
Bromobenzene	ND		1.0		ug/L			11/20/24 23:50	1
Bromoform	ND		2.0		ug/L			11/20/24 23:50	1
Bromomethane	ND		5.0		ug/L			11/20/24 23:50	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 23:50	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 23:50	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 23:50	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 23:50	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 23:50	1
Chloroethane	ND		2.0		ug/L			11/20/24 23:50	1
Chloroform	ND		1.0		ug/L			11/20/24 23:50	1
Chloromethane	ND		2.0		ug/L			11/20/24 23:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 23:50	1
Cyclohexane	ND		1.0		ug/L			11/20/24 23:50	1
Dibromomethane	ND		1.0		ug/L			11/20/24 23:50	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 23:50	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 23:50	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 23:50	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 23:50	1
Ethyl ether	ND	*1	2.0		ug/L			11/20/24 23:50	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 23:50	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 23:50	1
Hexane	ND		2.0		ug/L			11/20/24 23:50	1
Iodomethane	ND		5.0		ug/L			11/20/24 23:50	1
Isobutanol	ND		110		ug/L			11/20/24 23:50	1
Isopropyl ether	ND		10		ug/L			11/20/24 23:50	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
Methacrylonitrile	ND		15		ug/L			11/20/24 23:50	1
Methyl acetate	ND		5.0		ug/L			11/20/24 23:50	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 23:50	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 23:50	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 23:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 23:50	1
Naphthalene	ND		3.0		ug/L			11/20/24 23:50	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 23:50	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
o-Xylene	ND		1.0		ug/L			11/20/24 23:50	1

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

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
Tetrachloroethene	ND		1.0		ug/L			11/20/24 23:50	1
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 23:50	1
Toluene	ND		1.0		ug/L			11/20/24 23:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 23:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 23:50	1
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/20/24 23:50	1
Trichloroethene	ND		1.0		ug/L			11/20/24 23:50	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 23:50	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 23:50	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 23:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 23:50	1
Styrene	ND		1.0		ug/L			11/20/24 23:50	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 23:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 23:50	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*11/20/24 23:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*11/20/24 23:50*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*11/20/24 23:50*	*1*

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/21/24 00:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/21/24 00:12	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/21/24 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/21/24 00:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/21/24 00:12	1
1,1-Dichloroethane	ND		1.0		ug/L			11/21/24 00:12	1
1,1-Dichloroethene	ND		1.0		ug/L			11/21/24 00:12	1
1,1-Dichloropropene	ND		1.0		ug/L			11/21/24 00:12	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/21/24 00:12	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/21/24 00:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/21/24 00:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/21/24 00:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/21/24 00:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/21/24 00:12	1
1,2-Dichloroethane	ND		1.0		ug/L			11/21/24 00:12	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/21/24 00:12	1
1,2-Dichloropropane	ND		1.0		ug/L			11/21/24 00:12	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/21/24 00:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/21/24 00:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/21/24 00:12	1
1,3-Dichloropropane	ND		1.0		ug/L			11/21/24 00:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/21/24 00:12	1
1,4-Dioxane	ND		40		ug/L			11/21/24 00:12	1
2,2-Dichloropropane	ND		1.0		ug/L			11/21/24 00:12	1

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

Client Sample ID: DUP1
Lab Sample ID: 280-199586-16
Date Collected: 11/13/24 13:48
Matrix: Water
Date Received: 11/14/24 09:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10		ug/L			11/21/24 00:12	1
o-Chlorotoluene	ND		1.0		ug/L			11/21/24 00:12	1
2-Hexanone	ND		5.0		ug/L			11/21/24 00:12	1
Butyl alcohol, tert-	ND		10		ug/L			11/21/24 00:12	1
p-Chlorotoluene	ND		1.0		ug/L			11/21/24 00:12	1
p-Cymene	ND		1.0		ug/L			11/21/24 00:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/21/24 00:12	1
Acetone	ND		15		ug/L			11/21/24 00:12	1
Acetonitrile	ND		30		ug/L			11/21/24 00:12	1
Acrolein	ND		20		ug/L			11/21/24 00:12	1
Acrylonitrile	ND		20		ug/L			11/21/24 00:12	1
Benzene	ND		1.0		ug/L			11/21/24 00:12	1
Bromobenzene	ND		1.0		ug/L			11/21/24 00:12	1
Bromoform	ND		2.0		ug/L			11/21/24 00:12	1
Bromomethane	ND		5.0		ug/L			11/21/24 00:12	1
Carbon disulfide	ND		2.0		ug/L			11/21/24 00:12	1
Carbon tetrachloride	ND		1.0		ug/L			11/21/24 00:12	1
Chlorobenzene	ND		1.0		ug/L			11/21/24 00:12	1
Bromochloromethane	ND		1.0		ug/L			11/21/24 00:12	1
Dibromochloromethane	ND		1.0		ug/L			11/21/24 00:12	1
Chloroethane	ND		2.0		ug/L			11/21/24 00:12	1
Chloroform	ND		1.0		ug/L			11/21/24 00:12	1
Chloromethane	ND		2.0		ug/L			11/21/24 00:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/21/24 00:12	1
Cyclohexane	ND		1.0		ug/L			11/21/24 00:12	1
Dibromomethane	ND		1.0		ug/L			11/21/24 00:12	1
Bromodichloromethane	ND		1.0		ug/L			11/21/24 00:12	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/21/24 00:12	1
Dichlorofluoromethane	ND		2.0		ug/L			11/21/24 00:12	1
Ethyl acetate	ND		5.0		ug/L			11/21/24 00:12	1
Ethyl ether	ND	*1	2.0		ug/L			11/21/24 00:12	1
Ethylbenzene	ND		1.0		ug/L			11/21/24 00:12	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/21/24 00:12	1
Hexachlorobutadiene	ND		2.0		ug/L			11/21/24 00:12	1
Hexane	ND		2.0		ug/L			11/21/24 00:12	1
Iodomethane	ND		5.0		ug/L			11/21/24 00:12	1
Isobutanol	ND		110		ug/L			11/21/24 00:12	1
Isopropyl ether	ND		10		ug/L			11/21/24 00:12	1
Isopropylbenzene	ND		1.0		ug/L			11/21/24 00:12	1
Methacrylonitrile	ND		15		ug/L			11/21/24 00:12	1
Methyl acetate	ND		5.0		ug/L			11/21/24 00:12	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/21/24 00:12	1
Methylcyclohexane	ND		1.0		ug/L			11/21/24 00:12	1
Methylene Chloride	ND		2.0		ug/L			11/21/24 00:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/21/24 00:12	1
Naphthalene	ND		3.0		ug/L			11/21/24 00:12	1
Butyl alcohol, n-	ND		60		ug/L			11/21/24 00:12	1
n-Butylbenzene	ND		1.0		ug/L			11/21/24 00:12	1
N-Propylbenzene	ND		1.0		ug/L			11/21/24 00:12	1

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

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			11/21/24 00:12	1
sec-Butylbenzene	ND		1.0		ug/L			11/21/24 00:12	1
Tetrachloroethene	ND		1.0		ug/L			11/21/24 00:12	1
Tetrahydrofuran	ND		7.0		ug/L			11/21/24 00:12	1
Toluene	ND		1.0		ug/L			11/21/24 00:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/21/24 00:12	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/21/24 00:12	1
trans-1,4-Dichloro-2-butene	ND	*+	3.0		ug/L			11/21/24 00:12	1
Trichloroethene	ND		1.0		ug/L			11/21/24 00:12	1
Trichlorofluoromethane	ND		2.0		ug/L			11/21/24 00:12	1
Vinyl acetate	ND		3.0		ug/L			11/21/24 00:12	1
Vinyl chloride	ND		1.0		ug/L			11/21/24 00:12	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/21/24 00:12	1
Styrene	ND		1.0		ug/L			11/21/24 00:12	1
tert-Butylbenzene	ND		1.0		ug/L			11/21/24 00:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/21/24 00:12	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/21/24 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*11/21/24 00:12*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*11/21/24 00:12*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*11/21/24 00:12*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	**0.025**		0.0030		mg/L		11/15/24 14:29	11/18/24 01:29	1
Iron, Total	**38**		0.060		mg/L		11/15/24 14:29	11/18/24 01:29	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 01:33	1
Iron, Total	**20**		0.060		mg/L		11/15/24 14:29	11/18/24 01:33	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 01:36	1
Iron, Total	**0.69**		0.060		mg/L		11/15/24 14:29	11/18/24 01:36	1

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 01:40	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable (Continued)

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Total	**0.15**		0.060		mg/L		11/15/24 14:29	11/18/24 01:40	1

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 01:44	1
Iron, Total	ND		0.060		mg/L		11/15/24 14:29	11/18/24 01:44	1

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 01:47	1
Iron, Total	**0.13**		0.060		mg/L		11/15/24 14:29	11/18/24 01:47	1

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 01:51	1
Iron, Total	**3.6**		0.060		mg/L		11/15/24 14:29	11/18/24 01:51	1

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 02:05	1
Iron, Total	**3.7**		0.060		mg/L		11/15/24 14:29	11/18/24 02:05	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**18**		0.20		mg/L		11/15/24 08:23	11/20/24 21:30	1
Iron, Dissolved	**0.56**		0.060		mg/L		11/15/24 08:23	11/20/24 21:30	1
Magnesium, Dissolved	**7.8**		0.050		mg/L		11/15/24 08:23	11/20/24 21:30	1
Potassium, Dissolved	**1.2**		1.0		mg/L		11/15/24 08:23	11/20/24 21:30	1
Sodium, Dissolved	**9.5**		1.0		mg/L		11/15/24 08:23	11/20/24 21:30	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**40**		0.20		mg/L		11/15/24 08:23	11/20/24 21:47	1
Iron, Dissolved	**23**		0.060		mg/L		11/15/24 08:23	11/20/24 21:47	1
Magnesium, Dissolved	**14**		0.050		mg/L		11/15/24 08:23	11/20/24 21:47	1
Potassium, Dissolved	**8.6**		1.0		mg/L		11/15/24 08:23	11/20/24 21:47	1
Sodium, Dissolved	**17**		1.0		mg/L		11/15/24 08:23	11/20/24 21:47	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	30		0.20		mg/L		11/15/24 08:23	11/20/24 21:51	1
Iron, Dissolved	0.68		0.060		mg/L		11/15/24 08:23	11/20/24 21:51	1
Magnesium, Dissolved	15		0.050		mg/L		11/15/24 08:23	11/20/24 21:51	1
Potassium, Dissolved	1.2		1.0		mg/L		11/15/24 08:23	11/20/24 21:51	1
Sodium, Dissolved	11		1.0		mg/L		11/15/24 08:23	11/20/24 21:51	1

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	14		0.20		mg/L		11/15/24 08:23	11/20/24 21:56	1
Iron, Dissolved	0.12		0.060		mg/L		11/15/24 08:23	11/20/24 21:56	1
Magnesium, Dissolved	7.5		0.050		mg/L		11/15/24 08:23	11/20/24 21:56	1
Potassium, Dissolved	1.3		1.0		mg/L		11/15/24 08:23	11/20/24 21:56	1
Sodium, Dissolved	5.7		1.0		mg/L		11/15/24 08:23	11/20/24 21:56	1

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	19		0.20		mg/L		11/15/24 08:23	11/20/24 22:00	1
Iron, Dissolved	ND		0.060		mg/L		11/15/24 08:23	11/20/24 22:00	1
Magnesium, Dissolved	9.5		0.050		mg/L		11/15/24 08:23	11/20/24 22:00	1
Potassium, Dissolved	ND		1.0		mg/L		11/15/24 08:23	11/20/24 22:00	1
Sodium, Dissolved	9.7		1.0		mg/L		11/15/24 08:23	11/20/24 22:00	1

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	4.8		0.20		mg/L		11/15/24 08:23	11/20/24 22:04	1
Iron, Dissolved	ND		0.060		mg/L		11/15/24 08:23	11/20/24 22:04	1
Magnesium, Dissolved	2.0		0.050		mg/L		11/15/24 08:23	11/20/24 22:04	1
Potassium, Dissolved	ND		1.0		mg/L		11/15/24 08:23	11/20/24 22:04	1
Sodium, Dissolved	2.8		1.0		mg/L		11/15/24 08:23	11/20/24 22:04	1

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	6.2		0.20		mg/L		11/15/24 08:23	11/20/24 22:08	1
Iron, Dissolved	3.7		0.060		mg/L		11/15/24 08:23	11/20/24 22:08	1
Magnesium, Dissolved	3.8		0.050		mg/L		11/15/24 08:23	11/20/24 22:08	1
Potassium, Dissolved	ND		1.0		mg/L		11/15/24 08:23	11/20/24 22:08	1
Sodium, Dissolved	3.5		1.0		mg/L		11/15/24 08:23	11/20/24 22:08	1

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	6.2		0.20		mg/L		11/15/24 08:23	11/20/24 22:12	1

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	**3.9**		0.060		mg/L		11/15/24 08:23	11/20/24 22:12	1
Magnesium, Dissolved	**3.8**		0.050		mg/L		11/15/24 08:23	11/20/24 22:12	1
Potassium, Dissolved	ND		1.0		mg/L		11/15/24 08:23	11/20/24 22:12	1
Sodium, Dissolved	**3.5**		1.0		mg/L		11/15/24 08:23	11/20/24 22:12	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:01	1
Barium, Total	**0.34**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:01	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:01	1
Cadmium, Total	**0.00049**		0.00030		mg/L		11/15/24 14:29	11/18/24 20:01	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:01	1
Copper, Total	**0.0044**		0.0020		mg/L		11/15/24 14:29	11/19/24 20:42	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:01	1
Manganese, Total	**37**		0.10		mg/L		12/04/24 14:53	12/05/24 13:20	100
Nickel, Total	**0.0050**		0.0040		mg/L		12/04/24 14:53	12/05/24 11:06	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:01	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:42	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:01	1
Vanadium, Total	**0.0093**		0.0020		mg/L		12/04/24 14:53	12/05/24 11:06	1
Zinc, Total	**0.010**		0.0050		mg/L		11/15/24 14:29	11/18/24 20:01	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:05	1
Barium, Total	**0.081**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:05	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:05	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 20:05	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:05	1
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:45	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:05	1
Manganese, Total	**3.0**		0.010		mg/L		11/15/24 14:29	11/20/24 13:24	10
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 20:45	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:05	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:45	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:05	1
Vanadium, Total	ND		0.0020		mg/L		11/15/24 14:29	11/18/24 20:05	1
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 20:05	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:09	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium, Total	**0.0054**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:09	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:09	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 20:09	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:09	1
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:49	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:09	1
Manganese, Total	**2.1**		0.0010		mg/L		11/15/24 14:29	11/20/24 13:35	1
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 20:49	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:09	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:49	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:09	1
Vanadium, Total	ND		0.0020		mg/L		11/15/24 14:29	11/18/24 20:09	1
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 20:09	1

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:12	1
Barium, Total	**0.0033**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:12	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:12	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 20:12	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:12	1
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:52	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:12	1
Manganese, Total	**1.0**		0.0010		mg/L		11/15/24 14:29	11/20/24 13:39	1
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 20:52	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:12	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:52	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:12	1
Vanadium, Total	ND		0.0020		mg/L		11/15/24 14:29	11/18/24 20:12	1
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 20:12	1

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:16	1
Barium, Total	**0.0044**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:16	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:16	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 20:16	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:16	1
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:56	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:16	1
Manganese, Total	**0.0014**		0.0010		mg/L		11/15/24 14:29	11/20/24 13:42	1
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 20:56	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:16	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:56	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:16	1
Vanadium, Total	**0.0041**		0.0020		mg/L		11/15/24 14:29	11/18/24 20:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 20:16	1

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:19	1
Barium, Total	**0.0038**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:19	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:19	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 20:19	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:19	1
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 21:00	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:19	1
Manganese, Total	**0.0091**		0.0010		mg/L		11/15/24 14:29	11/20/24 13:46	1
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 21:00	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:19	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 21:00	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:19	1
Vanadium, Total	ND		0.0020		mg/L		11/15/24 14:29	11/18/24 20:19	1
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 20:19	1

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:30	1
Barium, Total	**0.0052**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:30	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:30	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 20:30	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:30	1
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 21:03	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:30	1
Manganese, Total	**1.2**		0.0010		mg/L		11/15/24 14:29	11/20/24 13:49	1
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 21:03	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:30	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 21:03	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:30	1
Vanadium, Total	ND		0.0020		mg/L		11/15/24 14:29	11/18/24 20:30	1
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 20:30	1

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:34	1
Barium, Total	**0.0052**		0.0010		mg/L		11/15/24 14:29	11/18/24 20:34	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:34	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 20:34	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 20:34	1
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 21:07	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:34	1
Manganese, Total	**1.1**		0.0010		mg/L		11/15/24 14:29	11/20/24 13:53	1
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 21:07	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:34	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 21:07	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 20:34	1
Vanadium, Total	ND		0.0020		mg/L		11/15/24 14:29	11/18/24 20:34	1
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 20:34	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.38**		0.0010		mg/L		11/15/24 08:23	11/15/24 22:59	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**3.4**		0.0010		mg/L		11/15/24 08:23	11/15/24 23:02	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**2.2**		0.0010		mg/L		11/15/24 08:23	11/15/24 23:06	1

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**1.0**		0.0010		mg/L		11/15/24 08:23	11/15/24 23:09	1

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		12/04/24 14:53	12/05/24 13:16	1

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.0035**		0.0010		mg/L		11/15/24 08:23	11/15/24 23:16	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	1.2		0.0010		mg/L		11/15/24 08:23	11/15/24 23:20	1

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	1.2		0.0010		mg/L		11/15/24 08:23	11/18/24 15:20	1

General Chemistry

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.5		3.0		mg/L			11/16/24 06:01	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/16/24 06:01	1
Ammonia (as N) (EPA 350.1)	0.042		0.030		mg/L			11/22/24 16:45	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	86		10		mg/L			11/21/24 01:03	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	86		10		mg/L			11/21/24 01:03	1
Total Dissolved Solids (TDS) (SM 2540C)	150		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	48		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	1.8		1.0		mg/L			11/27/24 04:31	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	8.9		3.0		mg/L			11/16/24 06:12	1
Sulfate (EPA 300.0)	7.3		5.0		mg/L			11/16/24 06:12	1
Ammonia (as N) (EPA 350.1)	2.5		0.030		mg/L			11/22/24 16:48	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	180		10		mg/L			11/21/24 01:09	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	180		10		mg/L			11/21/24 01:09	1
Total Dissolved Solids (TDS) (SM 2540C)	230		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	28	H	4.0		mg/L			11/27/24 08:49	1
Total Organic Carbon - Average (SM 5310B)	5.6		1.0		mg/L			11/27/24 04:45	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	8.7		3.0		mg/L			11/16/24 06:23	1

General Chemistry (Continued)

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	**13**		5.0		mg/L			11/16/24 06:23	1
Ammonia (as N) (EPA 350.1)	**0.15**		0.030		mg/L			11/22/24 16:50	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**140**		10		mg/L			11/21/24 01:14	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**140**		10		mg/L			11/21/24 01:14	1
Total Dissolved Solids (TDS) (SM 2540C)	**210**		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	**1.6**		1.0		mg/L			11/27/24 05:29	1

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/16/24 06:34	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/16/24 06:34	1
Ammonia (as N) (EPA 350.1)	**0.43**		0.030		mg/L			11/22/24 16:52	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**72**		10		mg/L			11/21/24 01:18	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**72**		10		mg/L			11/21/24 01:18	1
Total Dissolved Solids (TDS) (SM 2540C)	**100**		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			11/27/24 05:44	1

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**3.8**		3.0		mg/L			11/16/24 07:07	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/16/24 07:07	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:14	1
Nitrate as N (EPA 353.2)	**0.89**		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**91**		10		mg/L			11/21/24 01:23	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**91**		10		mg/L			11/21/24 01:23	1
Total Dissolved Solids (TDS) (SM 2540C)	**140**		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	**1.6**		1.0		mg/L			12/03/24 03:30	1

General Chemistry

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/16/24 07:18	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/16/24 07:18	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 16:56	1
Nitrate as N (EPA 353.2)	**0.78**		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**21**		10		mg/L			11/21/24 01:27	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**21**		10		mg/L			11/21/24 01:27	1
Total Dissolved Solids (TDS) (SM 2540C)	**39**		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	**1.8**		1.0		mg/L			11/27/24 08:29	1

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			12/03/24 12:13	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			12/03/24 12:13	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**36**		10		mg/L			11/21/24 01:42	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**36**		10		mg/L			11/21/24 01:42	1
Total Dissolved Solids (TDS) (SM 2540C)	**56**		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			12/03/24 16:08	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			12/03/24 16:08	1
Ammonia (as N) (EPA 350.1)	**0.061**		0.030		mg/L			11/22/24 16:58	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/14/24 23:55	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**36**		10		mg/L			11/21/24 01:46	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**36**		10		mg/L			11/21/24 01:46	1
Total Dissolved Solids (TDS) (SM 2540C)	**57**		5.0		mg/L			11/15/24 09:44	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	**2.1**		1.0		mg/L			11/27/24 08:44	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	42.22				ft			11/13/24 12:35	1
Specific Conductivity	186				umhos/cm			11/13/24 12:35	1
Dissolved Oxygen	0.7				mg/L			11/13/24 12:35	1
eH	-25.4				millivolts			11/13/24 12:35	1
Turbidity	247.9				NTU			11/13/24 12:35	1
Temperature	12.4				Degrees C			11/13/24 12:35	1
pH	6.45				SU			11/13/24 12:35	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-10
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	27.16				ft			11/13/24 16:10	1
Specific Conductivity	451				umhos/cm			11/13/24 16:10	1
Dissolved Oxygen	0.4				mg/L			11/13/24 16:10	1
eH	-117.9				millivolts			11/13/24 16:10	1
Turbidity	65.0				NTU			11/13/24 16:10	1
Temperature	11.9				Degrees C			11/13/24 16:10	1
pH	6.38				SU			11/13/24 16:10	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-11
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	1.51				ft			11/13/24 13:20	1
Specific Conductivity	308				umhos/cm			11/13/24 13:20	1
Dissolved Oxygen	0.8				mg/L			11/13/24 13:20	1
eH	287.6				millivolts			11/13/24 13:20	1
Turbidity	3.4				NTU			11/13/24 13:20	1
Temperature	11.6				Degrees C			11/13/24 13:20	1
pH	6.56				SU			11/13/24 13:20	1

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-12
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	34.65				ft			11/13/24 12:05	1
Specific Conductivity	179				umhos/cm			11/13/24 12:05	1
Dissolved Oxygen	1.1				mg/L			11/13/24 12:05	1
eH	302.9				millivolts			11/13/24 12:05	1
Turbidity	3.6				NTU			11/13/24 12:05	1
Temperature	10.2				Degrees C			11/13/24 12:05	1
pH	6.30				SU			11/13/24 12:05	1

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	40.40				ft			11/13/24 13:40	1
Specific Conductivity	206				umhos/cm			11/13/24 13:40	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-34A
Date Collected: 11/13/24 12:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-13
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Oxygen	0.7				mg/L			11/13/24 13:40	1
eH	7.5				millivolts			11/13/24 13:40	1
Turbidity	3.1				NTU			11/13/24 13:40	1
Temperature	11.6				Degrees C			11/13/24 13:40	1
pH	6.14				SU			11/13/24 13:40	1

Client Sample ID: MW-43
Date Collected: 11/13/24 13:40
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-14
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	20.41				ft			11/13/24 14:40	1
Specific Conductivity	54				umhos/cm			11/13/24 14:40	1
Dissolved Oxygen	3.5				mg/L			11/13/24 14:40	1
eH	126.3				millivolts			11/13/24 14:40	1
Turbidity	4.9				NTU			11/13/24 14:40	1
Temperature	11.2				Degrees C			11/13/24 14:40	1
pH	5.58				SU			11/13/24 14:40	1

Client Sample ID: MW-29
Date Collected: 11/13/24 13:38
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-15
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	12.69				ft			11/13/24 14:38	1
Specific Conductivity	103				umhos/cm			11/13/24 14:38	1
Dissolved Oxygen	0.9				mg/L			11/13/24 14:38	1
eH	263.8				millivolts			11/13/24 14:38	1
Turbidity	4.0				NTU			11/13/24 14:38	1
Temperature	11.0				Degrees C			11/13/24 14:38	1
pH	5.98				SU			11/13/24 14:38	1

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199586-16
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	12.69				ft			11/13/24 14:48	1
Specific Conductivity	103				umhos/cm			11/13/24 14:48	1
Dissolved Oxygen	0.9				mg/L			11/13/24 14:48	1
eH	263.8				millivolts			11/13/24 14:48	1
Turbidity	4.0				NTU			11/13/24 14:48	1
Temperature	11.0				Degrees C			11/13/24 14:48	1
pH	5.98				SU			11/13/24 14:48	1

Surrogate Summary

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(80-125)
280-199586-9	MW-34C	103	102	102
280-199586-10	MW-42	107	103	104
280-199586-11	MW-32	104	102	100
280-199586-12	MW-19C	103	101	104
280-199586-13	MW-34A	106	103	97
280-199586-14	MW-43	104	102	100
280-199586-15	MW-29	106	104	99
280-199586-16	DUP1	106	92	105
LCS 280-675947/4	Lab Control Sample	106	102	101
LCS 280-675947/6	Lab Control Sample	107	101	100
LCSD 280-675947/5	Lab Control Sample Dup	104	102	101
LCSD 280-675947/7	Lab Control Sample Dup	110	105	100
MB 280-675947/9	Method Blank	105	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DBFM
Lab Sample ID	Client Sample ID	(77-120)
280-199586-9	MW-34C	96
280-199586-10	MW-42	98
280-199586-11	MW-32	97
280-199586-12	MW-19C	96
280-199586-13	MW-34A	95
280-199586-14	MW-43	96
280-199586-15	MW-29	96
280-199586-16	DUP1	95
LCS 280-675316/1002	Lab Control Sample	99
LCSD 280-675316/3	Lab Control Sample Dup	99
MB 280-675316/5	Method Blank	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 280-675947/9
Matrix: Water
Analysis Batch: 675947

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 19:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/20/24 19:37	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/20/24 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/20/24 19:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/20/24 19:37	1
1,1-Dichloroethane	ND		1.0		ug/L			11/20/24 19:37	1
1,1-Dichloroethene	ND		1.0		ug/L			11/20/24 19:37	1
1,1-Dichloropropene	ND		1.0		ug/L			11/20/24 19:37	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/20/24 19:37	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/24 19:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/24 19:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/24 19:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/20/24 19:37	1
1,2-Dichloroethane	ND		1.0		ug/L			11/20/24 19:37	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/20/24 19:37	1
1,2-Dichloropropane	ND		1.0		ug/L			11/20/24 19:37	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/20/24 19:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/20/24 19:37	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/24 19:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/20/24 19:37	1
1,4-Dioxane	ND		40		ug/L			11/20/24 19:37	1
2,2-Dichloropropane	ND		1.0		ug/L			11/20/24 19:37	1
2-Butanone (MEK)	ND		10		ug/L			11/20/24 19:37	1
o-Chlorotoluene	ND		1.0		ug/L			11/20/24 19:37	1
2-Hexanone	ND		5.0		ug/L			11/20/24 19:37	1
Butyl alcohol, tert-	ND		10		ug/L			11/20/24 19:37	1
p-Chlorotoluene	ND		1.0		ug/L			11/20/24 19:37	1
p-Cymene	ND		1.0		ug/L			11/20/24 19:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/20/24 19:37	1
Acetone	ND		15		ug/L			11/20/24 19:37	1
Acetonitrile	ND		30		ug/L			11/20/24 19:37	1
Acrolein	ND		20		ug/L			11/20/24 19:37	1
Acrylonitrile	ND		20		ug/L			11/20/24 19:37	1
Benzene	ND		1.0		ug/L			11/20/24 19:37	1
Bromobenzene	ND		1.0		ug/L			11/20/24 19:37	1
Bromoform	ND		2.0		ug/L			11/20/24 19:37	1
Bromomethane	ND		5.0		ug/L			11/20/24 19:37	1
Carbon disulfide	ND		2.0		ug/L			11/20/24 19:37	1
Carbon tetrachloride	ND		1.0		ug/L			11/20/24 19:37	1
Chlorobenzene	ND		1.0		ug/L			11/20/24 19:37	1
Bromochloromethane	ND		1.0		ug/L			11/20/24 19:37	1
Dibromochloromethane	ND		1.0		ug/L			11/20/24 19:37	1
Chloroethane	ND		2.0		ug/L			11/20/24 19:37	1
Chloroform	ND		1.0		ug/L			11/20/24 19:37	1
Chloromethane	ND		2.0		ug/L			11/20/24 19:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 19:37	1

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

Lab Sample ID: MB 280-675947/9
Matrix: Water
Analysis Batch: 675947

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0		ug/L			11/20/24 19:37	1
Dibromomethane	ND		1.0		ug/L			11/20/24 19:37	1
Bromodichloromethane	ND		1.0		ug/L			11/20/24 19:37	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/20/24 19:37	1
Dichlorofluoromethane	ND		2.0		ug/L			11/20/24 19:37	1
Ethyl acetate	ND		5.0		ug/L			11/20/24 19:37	1
Ethyl ether	ND		2.0		ug/L			11/20/24 19:37	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/20/24 19:37	1
Hexachlorobutadiene	ND		2.0		ug/L			11/20/24 19:37	1
Hexane	ND		2.0		ug/L			11/20/24 19:37	1
Iodomethane	ND		5.0		ug/L			11/20/24 19:37	1
Isobutanol	ND		110		ug/L			11/20/24 19:37	1
Isopropyl ether	ND		10		ug/L			11/20/24 19:37	1
Isopropylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
Methacrylonitrile	ND		15		ug/L			11/20/24 19:37	1
Methyl acetate	ND		5.0		ug/L			11/20/24 19:37	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/20/24 19:37	1
Methylcyclohexane	ND		1.0		ug/L			11/20/24 19:37	1
Methylene Chloride	ND		2.0		ug/L			11/20/24 19:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/20/24 19:37	1
Naphthalene	ND		3.0		ug/L			11/20/24 19:37	1
Butyl alcohol, n-	ND		60		ug/L			11/20/24 19:37	1
n-Butylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
N-Propylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
o-Xylene	ND		1.0		ug/L			11/20/24 19:37	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
Tetrachloroethene	ND		1.0		ug/L			11/20/24 19:37	1
Tetrahydrofuran	ND		7.0		ug/L			11/20/24 19:37	1
Toluene	ND		1.0		ug/L			11/20/24 19:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/20/24 19:37	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 19:37	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/20/24 19:37	1
Trichloroethene	ND		1.0		ug/L			11/20/24 19:37	1
Trichlorofluoromethane	ND		2.0		ug/L			11/20/24 19:37	1
Vinyl acetate	ND		3.0		ug/L			11/20/24 19:37	1
Vinyl chloride	ND		1.0		ug/L			11/20/24 19:37	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/20/24 19:37	1
Styrene	ND		1.0		ug/L			11/20/24 19:37	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/24 19:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/20/24 19:37	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/20/24 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*11/20/24 19:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*11/20/24 19:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*11/20/24 19:37*	*1*

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

Lab Sample ID: LCS 280-675947/4
Matrix: Water
Analysis Batch: 675947

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	50.0	54.5		ug/L		109	80 - 124
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	80 - 123
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/L		117	74 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.0		ug/L		96	73 - 132
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	51.5		ug/L		103	78 - 121
1,1-Dichloroethene	50.0	48.5		ug/L		97	77 - 121
1,1-Dichloropropene	50.0	50.7		ug/L		101	77 - 123
1,2,3-Trichlorobenzene	50.0	48.9		ug/L		98	65 - 129
1,2,3-Trichloropropane	50.0	54.5		ug/L		109	80 - 120
1,2,4-Trichlorobenzene	50.0	47.9		ug/L		96	74 - 126
1,2,4-Trimethylbenzene	50.0	51.7		ug/L		103	79 - 124
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/L		101	73 - 128
1,2-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	51.2		ug/L		102	71 - 121
1,2-Dichloropropane	50.0	51.1		ug/L		102	78 - 120
1,3,5-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 122
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120
1,3-Dichloropropane	50.0	52.5		ug/L		105	77 - 122
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,4-Dioxane	1000	999		ug/L		100	46 - 140
2,2-Dichloropropane	50.0	51.1		ug/L		102	75 - 131
2-Butanone (MEK)	200	209		ug/L		105	58 - 135
o-Chlorotoluene	50.0	51.5		ug/L		103	80 - 120
2-Hexanone	200	218		ug/L		109	62 - 137
Butyl alcohol, tert-	500	514		ug/L		103	54 - 140
p-Chlorotoluene	50.0	51.4		ug/L		103	80 - 120
p-Cymene	50.0	52.0		ug/L		104	80 - 122
4-Methyl-2-pentanone (MIBK)	200	224		ug/L		112	66 - 135
Acetone	200	206		ug/L		103	61 - 134
Acrolein	494	543		ug/L		110	31 - 174
Acrylonitrile	500	539		ug/L		108	70 - 126
Benzene	50.0	51.0		ug/L		102	80 - 120
Bromobenzene	50.0	51.3		ug/L		103	80 - 120
Bromoform	50.0	53.5		ug/L		107	79 - 138
Bromomethane	50.0	39.5		ug/L		79	29 - 148
Carbon disulfide	50.0	50.6		ug/L		101	70 - 121
Carbon tetrachloride	50.0	52.6		ug/L		105	79 - 127
Chlorobenzene	50.0	51.6		ug/L		103	80 - 120
Bromochloromethane	50.0	50.4		ug/L		101	80 - 123
Dibromochloromethane	50.0	55.2		ug/L		110	80 - 125
Chloroethane	50.0	43.6		ug/L		87	56 - 141
Chloroform	50.0	51.7		ug/L		103	80 - 120
Chloromethane	50.0	49.2		ug/L		98	56 - 133
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	80 - 120
Cyclohexane	50.0	49.8		ug/L		100	68 - 125
Dibromomethane	50.0	47.6		ug/L		95	80 - 120
Bromodichloromethane	50.0	53.4		ug/L		107	80 - 123

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

Lab Sample ID: LCS 280-675947/4
Matrix: Water
Analysis Batch: 675947

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	50.0	46.7		ug/L		93	47 - 135
Dichlorofluoromethane	50.0	44.7		ug/L		89	63 - 135
Ethyl ether	50.0	50.2		ug/L		100	68 - 132
Ethylbenzene	50.0	51.6		ug/L		103	80 - 120
1,2-Dibromoethane (EDB)	50.0	50.1		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	52.6		ug/L		105	73 - 128
Hexane	50.0	49.2		ug/L		98	55 - 143
Iodomethane	50.0	57.8		ug/L		116	43 - 139
Isobutanol	1250	1380		ug/L		110	46 - 146
Isopropylbenzene	50.0	51.7		ug/L		103	78 - 122
Methyl acetate	100	108		ug/L		108	59 - 136
Methyl tert-butyl ether	50.0	52.0		ug/L		104	80 - 120
Methylcyclohexane	50.0	48.7		ug/L		97	64 - 130
Methylene Chloride	50.0	50.6		ug/L		101	78 - 120
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	80 - 120
Naphthalene	50.0	44.2		ug/L		88	60 - 124
n-Butylbenzene	50.0	52.2		ug/L		104	59 - 140
N-Propylbenzene	50.0	52.5		ug/L		105	80 - 123
o-Xylene	50.0	50.8		ug/L		102	80 - 120
sec-Butylbenzene	50.0	51.2		ug/L		102	80 - 123
Tetrachloroethene	50.0	51.1		ug/L		102	80 - 121
Tetrahydrofuran	100	105		ug/L		105	62 - 130
Toluene	50.0	50.6		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	79 - 121
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	80 - 123
trans-1,4-Dichloro-2-butene	50.0	74.1	*+	ug/L		148	51 - 138
Trichloroethene	50.0	47.2		ug/L		94	80 - 120
Trichlorofluoromethane	50.0	41.8		ug/L		84	54 - 144
Vinyl acetate	100	124		ug/L		124	55 - 161
Vinyl chloride	50.0	43.7		ug/L		87	67 - 127
cis-1,3-Dichloropropene	50.0	54.4		ug/L		109	76 - 129
Styrene	50.0	51.9		ug/L		104	80 - 120
tert-Butylbenzene	50.0	51.4		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: LCS 280-675947/6
Matrix: Water
Analysis Batch: 675947

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trichlorobenzene	25.0	24.6		ug/L		98	50 - 149
Acetonitrile	250	345		ug/L		138	23 - 155
Ethyl acetate	50.0	63.9		ug/L		128	35 - 149
Isopropyl ether	25.0	25.8		ug/L		103	63 - 128

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

Lab Sample ID: LCS 280-675947/6
Matrix: Water
Analysis Batch: 675947

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methacrylonitrile			250	335		ug/L		134	42 - 142		
Butyl alcohol, n-			625	709		ug/L		113	10 - 178		
Tert-amyl methyl ether			25.0	27.8		ug/L		111	53 - 135		
Ethyl tert-butyl ether			25.0	27.8		ug/L		111	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Lab Sample ID: LCSD 280-675947/5
Matrix: Water
Analysis Batch: 675947

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			50.0	49.7		ug/L		99	80 - 124	9	20
1,1,1-Trichloroethane			50.0	48.4		ug/L		97	80 - 123	8	20
1,1,2,2-Tetrachloroethane			50.0	51.3		ug/L		103	74 - 123	13	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	44.6		ug/L		89	73 - 132	7	23
1,1,2-Trichloroethane			50.0	47.9		ug/L		96	80 - 120	7	20
1,1-Dichloroethane			50.0	47.5		ug/L		95	78 - 121	8	20
1,1-Dichloroethene			50.0	44.5		ug/L		89	77 - 121	9	21
1,1-Dichloropropene			50.0	47.6		ug/L		95	77 - 123	6	20
1,2,3-Trichlorobenzene			50.0	42.2		ug/L		84	65 - 129	15	20
1,2,3-Trichloropropane			50.0	47.3		ug/L		95	80 - 120	14	20
1,2,4-Trichlorobenzene			50.0	41.9		ug/L		84	74 - 126	13	20
1,2,4-Trimethylbenzene			50.0	47.2		ug/L		94	79 - 124	9	20
1,2-Dibromo-3-Chloropropane			50.0	45.8		ug/L		92	73 - 128	10	21
1,2-Dichlorobenzene			50.0	45.2		ug/L		90	80 - 120	9	20
1,2-Dichloroethane			50.0	48.3		ug/L		97	71 - 121	6	20
1,2-Dichloropropane			50.0	47.2		ug/L		94	78 - 120	8	20
1,3,5-Trimethylbenzene			50.0	48.2		ug/L		96	80 - 122	8	20
1,3-Dichlorobenzene			50.0	47.5		ug/L		95	80 - 120	7	20
1,3-Dichloropropane			50.0	48.8		ug/L		98	77 - 122	7	20
1,4-Dichlorobenzene			50.0	46.0		ug/L		92	80 - 120	9	20
1,4-Dioxane			1000	881		ug/L		88	46 - 140	13	24
2,2-Dichloropropane			50.0	46.4		ug/L		93	75 - 131	10	22
2-Butanone (MEK)			200	190		ug/L		95	58 - 135	9	20
o-Chlorotoluene			50.0	47.8		ug/L		96	80 - 120	8	20
2-Hexanone			200	199		ug/L		100	62 - 137	9	21
Butyl alcohol, tert-			500	467		ug/L		93	54 - 140	10	29
p-Chlorotoluene			50.0	47.6		ug/L		95	80 - 120	8	20
p-Cymene			50.0	47.1		ug/L		94	80 - 122	10	20
4-Methyl-2-pentanone (MIBK)			200	205		ug/L		103	66 - 135	9	20
Acetone			200	189		ug/L		94	61 - 134	9	21
Acrolein			494	432		ug/L		88	31 - 174	23	23
Acrylonitrile			500	487		ug/L		97	70 - 126	10	20
Benzene			50.0	47.0		ug/L		94	80 - 120	8	20

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

Lab Sample ID: LCSD 280-675947/5
Matrix: Water
Analysis Batch: 675947

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromobenzene	50.0	46.2		ug/L		92	80 - 120	10	20
Bromoform	50.0	49.4		ug/L		99	79 - 138	8	20
Bromomethane	50.0	36.5		ug/L		73	29 - 148	8	40
Carbon disulfide	50.0	45.7		ug/L		91	70 - 121	10	20
Carbon tetrachloride	50.0	48.2		ug/L		96	79 - 127	9	20
Chlorobenzene	50.0	46.9		ug/L		94	80 - 120	10	20
Bromochloromethane	50.0	46.5		ug/L		93	80 - 123	8	20
Dibromochloromethane	50.0	49.5		ug/L		99	80 - 125	11	20
Chloroethane	50.0	39.6		ug/L		79	56 - 141	10	30
Chloroform	50.0	47.5		ug/L		95	80 - 120	8	20
Chloromethane	50.0	41.8		ug/L		84	56 - 133	16	20
cis-1,2-Dichloroethene	50.0	45.6		ug/L		91	80 - 120	11	20
Cyclohexane	50.0	46.6		ug/L		93	68 - 125	7	32
Dibromomethane	50.0	43.5		ug/L		87	80 - 120	9	20
Bromodichloromethane	50.0	48.3		ug/L		97	80 - 123	10	20
Dichlorodifluoromethane	50.0	41.8		ug/L		84	47 - 135	11	21
Dichlorofluoromethane	50.0	40.4		ug/L		81	63 - 135	10	21
Ethyl ether	50.0	40.1	*1	ug/L		80	68 - 132	22	20
Ethylbenzene	50.0	46.0		ug/L		92	80 - 120	12	20
1,2-Dibromoethane (EDB)	50.0	45.3		ug/L		91	80 - 120	10	20
Hexachlorobutadiene	50.0	46.8		ug/L		94	73 - 128	12	20
Hexane	50.0	45.8		ug/L		92	55 - 143	7	23
Iodomethane	50.0	47.8		ug/L		96	43 - 139	19	38
Isobutanol	1250	1230		ug/L		98	46 - 146	12	30
Isopropylbenzene	50.0	48.3		ug/L		97	78 - 122	7	20
Methyl acetate	100	99.9		ug/L		100	59 - 136	8	20
Methyl tert-butyl ether	50.0	48.7		ug/L		97	80 - 120	7	20
Methylcyclohexane	50.0	45.8		ug/L		92	64 - 130	6	21
Methylene Chloride	50.0	46.2		ug/L		92	78 - 120	9	20
m-Xylene & p-Xylene	50.0	45.1		ug/L		90	80 - 120	10	20
Naphthalene	50.0	38.4		ug/L		77	60 - 124	14	21
n-Butylbenzene	50.0	47.6		ug/L		95	59 - 140	9	20
N-Propylbenzene	50.0	48.4		ug/L		97	80 - 123	8	20
o-Xylene	50.0	46.7		ug/L		93	80 - 120	8	20
sec-Butylbenzene	50.0	45.8		ug/L		92	80 - 123	11	20
Tetrachloroethene	50.0	46.9		ug/L		94	80 - 121	8	20
Tetrahydrofuran	100	97.0		ug/L		97	62 - 130	8	20
Toluene	50.0	46.7		ug/L		93	80 - 120	8	20
trans-1,2-Dichloroethene	50.0	46.2		ug/L		92	79 - 121	9	20
trans-1,3-Dichloropropene	50.0	49.0		ug/L		98	80 - 123	9	20
trans-1,4-Dichloro-2-butene	50.0	63.3		ug/L		127	51 - 138	16	24
Trichloroethene	50.0	42.5		ug/L		85	80 - 120	10	20
Trichlorofluoromethane	50.0	37.4		ug/L		75	54 - 144	11	28
Vinyl acetate	100	115		ug/L		115	55 - 161	8	23
Vinyl chloride	50.0	39.7		ug/L		79	67 - 127	10	25
cis-1,3-Dichloropropene	50.0	50.0		ug/L		100	76 - 129	9	20
Styrene	50.0	47.3		ug/L		95	80 - 120	9	20
tert-Butylbenzene	50.0	46.6		ug/L		93	80 - 120	10	20

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

Lab Sample ID: LCSD 280-675947/5
Matrix: Water
Analysis Batch: 675947

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
4-Bromofluorobenzene (Surr)	102		78 - 120
Toluene-d8 (Surr)	101		80 - 125

Lab Sample ID: LCSD 280-675947/7
Matrix: Water
Analysis Batch: 675947

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
1,3,5-Trichlorobenzene			25.0	21.7		ug/L		87	50 - 149	12	20
Acetonitrile			250	285		ug/L		114	23 - 155	19	20
Ethyl acetate			50.0	53.3		ug/L		107	35 - 149	18	20
Isopropyl ether			25.0	23.5		ug/L		94	63 - 128	9	20
Methacrylonitrile			250	282		ug/L		113	42 - 142	17	20
Butyl alcohol, n-			625	579		ug/L		93	10 - 178	20	20
Tert-amyl methyl ether			25.0	24.3		ug/L		97	53 - 135	14	20
Ethyl tert-butyl ether			25.0	24.0		ug/L		96	53 - 137	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
4-Bromofluorobenzene (Surr)	105		78 - 120
Toluene-d8 (Surr)	100		80 - 125

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

Lab Sample ID: MB 280-675316/5
Matrix: Water
Analysis Batch: 675316

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 15:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		77 - 120		11/15/24 15:10	1

Lab Sample ID: LCS 280-675316/1002
Matrix: Water
Analysis Batch: 675316

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			1.00	0.926		ug/L		93	40 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	99		77 - 120

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

Lab Sample ID: LCSD 280-675316/3
Matrix: Water
Analysis Batch: 675316

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
Vinyl chloride			1.00	0.944		ug/L		94	40 - 144	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-675164/1-A
Matrix: Water
Analysis Batch: 676043

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	ND		0.20		mg/L		11/15/24 08:23	11/20/24 21:00	1
Iron, Dissolved	ND		0.060		mg/L		11/15/24 08:23	11/20/24 21:00	1
Magnesium, Dissolved	ND		0.050		mg/L		11/15/24 08:23	11/20/24 21:00	1
Potassium, Dissolved	ND		1.0		mg/L		11/15/24 08:23	11/20/24 21:00	1
Sodium, Dissolved	ND		1.0		mg/L		11/15/24 08:23	11/20/24 21:00	1

Lab Sample ID: LCS 280-675164/2-A
Matrix: Water
Analysis Batch: 676043

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675164

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium, Dissolved			50.0	53.2		mg/L		106	90 - 111		
Iron, Dissolved			10.0	10.8		mg/L		108	89 - 115		
Magnesium, Dissolved			50.0	53.0		mg/L		106	90 - 113		
Potassium, Dissolved			50.0	54.0		mg/L		108	89 - 114		
Sodium, Dissolved			50.0	51.0		mg/L		102	90 - 115		

Lab Sample ID: MB 280-675213/1-A
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 00:28	1
Iron, Total	ND		0.060		mg/L		11/15/24 14:29	11/18/24 00:28	1

Lab Sample ID: LCS 280-675213/2-A
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cobalt, Total			1.00	0.978		mg/L		98	89 - 111		
Iron, Total			10.0	10.6		mg/L		106	89 - 115		

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

Lab Sample ID: 280-199622-A-1-B MS
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Total	ND		1.00	0.966		mg/L		97	82 - 119
Iron, Total	0.26		10.0	10.5		mg/L		103	75 - 125

Lab Sample ID: 280-199622-A-1-C MSD
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt, Total	ND		1.00	0.948		mg/L		95	82 - 119	2	20
Iron, Total	0.26		10.0	10.4		mg/L		102	75 - 125	1	20

Lab Sample ID: 280-199536-N-1-C MS
Matrix: Water
Analysis Batch: 676043

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 675164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	660		50.0	716	4	mg/L		112	75 - 125
Iron, Dissolved	97		10.0	110	4	mg/L		125	75 - 125
Magnesium, Dissolved	60		50.0	114		mg/L		108	75 - 125
Potassium, Dissolved	120		50.0	184		mg/L		120	76 - 125
Sodium, Dissolved	270		50.0	332	4	mg/L		120	75 - 125

Lab Sample ID: 280-199536-N-1-D MSD
Matrix: Water
Analysis Batch: 676043

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 675164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium, Dissolved	660		50.0	715	4	mg/L		111	75 - 125	0	20
Iron, Dissolved	97		10.0	110	4	mg/L		125	75 - 125	0	20
Magnesium, Dissolved	60		50.0	114		mg/L		109	75 - 125	0	20
Potassium, Dissolved	120		50.0	186		mg/L		123	76 - 125	1	20
Sodium, Dissolved	270		50.0	335	4	mg/L		125	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 280-199622-A-1-E MS
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	ND		0.0400	0.0405		mg/L		100	80 - 111
Barium, Total	0.032		0.0400	0.0718		mg/L		101	92 - 117
Beryllium, Total	ND		0.0400	0.0451		mg/L		113	87 - 118
Cadmium, Total	ND		0.0400	0.0375		mg/L		94	91 - 114
Chromium, Total	ND		0.0400	0.0391		mg/L		98	91 - 114
Lead, Total	ND	F1	0.0400	0.0378		mg/L		95	95 - 116
Manganese, Total	0.35		0.0400	0.383	4	mg/L		93	89 - 119
Selenium, Total	ND		0.0400	0.0399		mg/L		100	90 - 115
Thallium, Total	ND		0.0400	0.0380		mg/L		95	94 - 115
Vanadium, Total	ND		0.0400	0.0422		mg/L		105	91 - 114

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-199622-A-1-E MS
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc, Total	0.016		0.0400	0.0528		mg/L		93	86 - 120

Lab Sample ID: 280-199622-A-1-E MS
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper, Total	ND		0.0400	0.0409		mg/L		98	89 - 116
Nickel, Total	0.0046		0.0400	0.0424		mg/L		94	92 - 116
Silver, Total	ND		0.0400	0.0386		mg/L		96	93 - 118

Lab Sample ID: 280-199622-A-1-F MSD
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony, Total	ND		0.0400	0.0395		mg/L		98	80 - 111	2	20
Barium, Total	0.032		0.0400	0.0719		mg/L		101	92 - 117	0	20
Beryllium, Total	ND		0.0400	0.0435		mg/L		109	87 - 118	4	20
Cadmium, Total	ND		0.0400	0.0364		mg/L		91	91 - 114	3	20
Chromium, Total	ND		0.0400	0.0386		mg/L		97	91 - 114	1	20
Lead, Total	ND	F1	0.0400	0.0377	F1	mg/L		94	95 - 116	0	20
Manganese, Total	0.35		0.0400	0.388	4	mg/L		104	89 - 119	1	20
Selenium, Total	ND		0.0400	0.0394		mg/L		99	90 - 115	1	20
Thallium, Total	ND		0.0400	0.0377		mg/L		94	94 - 115	1	20
Vanadium, Total	ND		0.0400	0.0423		mg/L		106	91 - 114	0	20
Zinc, Total	0.016		0.0400	0.0523		mg/L		92	86 - 120	1	20

Lab Sample ID: 280-199622-A-1-F MSD
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper, Total	ND		0.0400	0.0401		mg/L		96	89 - 116	2	20
Nickel, Total	0.0046		0.0400	0.0434		mg/L		97	92 - 116	2	20
Silver, Total	ND		0.0400	0.0375		mg/L		94	93 - 118	3	20

Lab Sample ID: MB 280-675164/1-A
Matrix: Water
Analysis Batch: 675444

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/15/24 08:23	11/15/24 22:51	1

Lab Sample ID: LCS 280-675164/24-A
Matrix: Water
Analysis Batch: 675444

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0400	0.0407		mg/L		102	85 - 117

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 280-675213/1-A
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 19:07	1
Barium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 19:07	1
Beryllium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 19:07	1
Cadmium, Total	ND		0.00030		mg/L		11/15/24 14:29	11/18/24 19:07	1
Chromium, Total	ND		0.0030		mg/L		11/15/24 14:29	11/18/24 19:07	1
Lead, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 19:07	1
Manganese, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 19:07	1
Selenium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 19:07	1
Thallium, Total	ND		0.0010		mg/L		11/15/24 14:29	11/18/24 19:07	1
Vanadium, Total	ND		0.0020		mg/L		11/15/24 14:29	11/18/24 19:07	1
Zinc, Total	ND		0.0050		mg/L		11/15/24 14:29	11/18/24 19:07	1

Lab Sample ID: MB 280-675213/1-A
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:02	1
Nickel, Total	ND		0.0040		mg/L		11/15/24 14:29	11/19/24 20:02	1
Silver, Total	ND		0.0020		mg/L		11/15/24 14:29	11/19/24 20:02	1

Lab Sample ID: LCS 280-675213/25-A
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	0.0400	0.0400		mg/L		100	85 - 115
Barium, Total	0.0400	0.0404		mg/L		101	85 - 118
Beryllium, Total	0.0400	0.0391		mg/L		98	80 - 125
Cadmium, Total	0.0400	0.0378		mg/L		94	85 - 115
Chromium, Total	0.0400	0.0388		mg/L		97	84 - 121
Lead, Total	0.0400	0.0392		mg/L		98	85 - 118
Manganese, Total	0.0400	0.0395		mg/L		99	85 - 117
Selenium, Total	0.0400	0.0389		mg/L		97	77 - 122
Thallium, Total	0.0400	0.0393		mg/L		98	85 - 118
Vanadium, Total	0.0400	0.0396		mg/L		99	85 - 120
Zinc, Total	0.0400	0.0370		mg/L		92	83 - 122

Lab Sample ID: LCS 280-675213/25-A
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper, Total	0.0400	0.0433		mg/L		108	85 - 119
Nickel, Total	0.0400	0.0420		mg/L		105	85 - 119
Silver, Total	0.0400	0.0420		mg/L		105	85 - 115

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-677352/1-A
Matrix: Water
Analysis Batch: 677505

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel, Total	ND		0.0040		mg/L		12/04/24 14:53	12/05/24 10:48	1
Vanadium, Total	ND		0.0020		mg/L		12/04/24 14:53	12/05/24 10:48	1

Lab Sample ID: MB 280-677352/1-A
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Total	ND		0.0010		mg/L		12/04/24 14:53	12/05/24 12:33	1

Lab Sample ID: LCS 280-677352/2-A
Matrix: Water
Analysis Batch: 677505

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel, Total	0.0400	0.0394		mg/L		99	85 - 119
Vanadium, Total	0.0400	0.0403		mg/L		101	85 - 120

Lab Sample ID: LCS 280-677352/2-A
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Total	0.0400	0.0418		mg/L		105	85 - 117

Lab Sample ID: 280-200255-A-1-B MS
Matrix: Water
Analysis Batch: 677505

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel, Total	ND		0.0400	0.0398		mg/L		97	92 - 116
Vanadium, Total	ND		0.0400	0.0391		mg/L		98	91 - 114

Lab Sample ID: 280-200255-A-1-B MS
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Total	0.032		0.0400	0.0721		mg/L		100	89 - 119

Lab Sample ID: 280-200255-A-1-C MSD
Matrix: Water
Analysis Batch: 677505

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel, Total	ND		0.0400	0.0406		mg/L		99	92 - 116	2	20
Vanadium, Total	ND		0.0400	0.0399		mg/L		100	91 - 114	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-200255-A-1-C MSD
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 677352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Total	0.032		0.0400	0.0701		mg/L		95	89 - 119	3	20

Lab Sample ID: MB 280-677377/1-A
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		12/04/24 14:53	12/05/24 12:54	1

Lab Sample ID: LCS 280-677377/11-A
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0400	0.0392		mg/L		98	85 - 117

Lab Sample ID: 280-199570-B-14-B MS
Matrix: Water
Analysis Batch: 675610

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 675164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0011		0.0400	0.0410		mg/L		100	89 - 119

Lab Sample ID: 280-199570-B-14-C MSD
Matrix: Water
Analysis Batch: 675610

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 675164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Dissolved	0.0011		0.0400	0.0416		mg/L		101	89 - 119	1	20

Lab Sample ID: 280-200197-A-6-E MS
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 677377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.013		0.0400	0.0526		mg/L		98	89 - 119

Lab Sample ID: 280-200197-A-6-F MSD
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 677377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Dissolved	0.013		0.0400	0.0522		mg/L		98	89 - 119	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-675226/55
Matrix: Water
Analysis Batch: 675226

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			11/16/24 01:14	1
Sulfate	ND		5.0		mg/L			11/16/24 01:14	1

Lab Sample ID: MB 280-675226/91
Matrix: Water
Analysis Batch: 675226

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			11/16/24 07:51	1
Sulfate	ND		5.0		mg/L			11/16/24 07:51	1

Lab Sample ID: LCS 280-675226/53
Matrix: Water
Analysis Batch: 675226

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	104		mg/L		104	90 - 110		
Sulfate			100	105		mg/L		105	90 - 110		

Lab Sample ID: LCS 280-675226/89
Matrix: Water
Analysis Batch: 675226

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	107		mg/L		107	90 - 110		
Sulfate			100	108		mg/L		108	90 - 110		

Lab Sample ID: LCSD 280-675226/54
Matrix: Water
Analysis Batch: 675226

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
Chloride			100	106		mg/L		106	90 - 110	1	10
Sulfate			100	108		mg/L		108	90 - 110	0	10

Lab Sample ID: LCSD 280-675226/90
Matrix: Water
Analysis Batch: 675226

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
Chloride			100	107		mg/L		107	90 - 110	1	10
Sulfate			100	110		mg/L		110	90 - 110	1	10

Lab Sample ID: MRL 280-675226/3
Matrix: Water
Analysis Batch: 675226

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.18		mg/L		104	50 - 150		
Sulfate			5.00	5.06		mg/L		101	50 - 150		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-199319-A-1 MS
Matrix: Water
Analysis Batch: 675226

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20		50.0	74.7		mg/L		109	80 - 120		
Sulfate	13		50.0	67.6		mg/L		109	80 - 120		

Lab Sample ID: 280-199319-A-1 MSD
Matrix: Water
Analysis Batch: 675226

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20		50.0	75.4		mg/L		110	80 - 120	1	20
Sulfate	13		50.0	67.9		mg/L		110	80 - 120	0	20

Lab Sample ID: 280-199542-A-3 MS
Matrix: Water
Analysis Batch: 675226

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	24		50.0	81.5		mg/L		114	80 - 120		
Sulfate	6.1		50.0	58.1		mg/L		104	80 - 120		

Lab Sample ID: 280-199542-A-3 MSD
Matrix: Water
Analysis Batch: 675226

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24		50.0	84.0		mg/L		119	80 - 120	3	20
Sulfate	6.1		50.0	58.1		mg/L		104	80 - 120	0	20

Lab Sample ID: 280-199319-A-1 DU
Matrix: Water
Analysis Batch: 675226

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	20		20.8		mg/L		2	15
Sulfate	13		13.1		mg/L		1	15

Lab Sample ID: 280-199542-A-3 DU
Matrix: Water
Analysis Batch: 675226

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	24		24.2		mg/L		0.5	15
Sulfate	6.1		ND		mg/L		NC	15

Lab Sample ID: MB 280-677158/6
Matrix: Water
Analysis Batch: 677158

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			12/03/24 11:40	1
Sulfate	ND		5.0		mg/L			12/03/24 11:40	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 280-677158/4
Matrix: Water
Analysis Batch: 677158

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.4		mg/L		99	90 - 110
Sulfate	100	99.7		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-677158/5
Matrix: Water
Analysis Batch: 677158

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
Chloride	100	99.7		mg/L		100	90 - 110	0	10
Sulfate	100	99.9		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-677158/3
Matrix: Water
Analysis Batch: 677158

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	5.09		mg/L		102	50 - 150
Sulfate	5.00	ND		mg/L		97	50 - 150

Lab Sample ID: 280-200188-F-1 MS
Matrix: Water
Analysis Batch: 677158

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	120	F1	50.0	177	F1	mg/L		123	80 - 120
Sulfate	ND	F1	50.0	62.6	F1	mg/L		125	80 - 120

Lab Sample ID: 280-200188-F-1 MSD
Matrix: Water
Analysis Batch: 677158

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120	F1	50.0	179	F1	mg/L		126	80 - 120	1	20
Sulfate	ND	F1	50.0	64.1	F1	mg/L		128	80 - 120	2	20

Lab Sample ID: 280-200188-F-1 DU
Matrix: Water
Analysis Batch: 677158

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	120	F1	116		mg/L		0.2	15
Sulfate	ND	F1	ND		mg/L		NC	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-676336/136
Matrix: Water
Analysis Batch: 676336

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.030		mg/L			11/22/24 16:29	1

Lab Sample ID: LCS 280-676336/137
Matrix: Water
Analysis Batch: 676336

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)			2.51	2.47		mg/L		98	90 - 110		

Lab Sample ID: 280-199586-13 MS
Matrix: Water
Analysis Batch: 676336

Client Sample ID: MW-34A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)	ND		1.00	0.970		mg/L		97	90 - 110		

Lab Sample ID: 280-199586-13 MSD
Matrix: Water
Analysis Batch: 676336

Client Sample ID: MW-34A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	ND		1.00	1.01		mg/L		101	90 - 110	4	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-676072/62
Matrix: Water
Analysis Batch: 676072

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		10		mg/L			11/21/24 00:36	1
Alkalinity, Bicarbonate (As CaCO3)	ND		10		mg/L			11/21/24 00:36	1

Lab Sample ID: LCS 280-676072/60
Matrix: Water
Analysis Batch: 676072

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity, Total (As CaCO3)			200	190		mg/L		95	89 - 110		

Lab Sample ID: LCSD 280-676072/61
Matrix: Water
Analysis Batch: 676072

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
Alkalinity, Total (As CaCO3)			200	189		mg/L		95	89 - 110	0	10

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-199542-A-5 DU
Matrix: Water
Analysis Batch: 676072

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total (As CaCO3)	56			53.1		mg/L				5	10
Alkalinity, Bicarbonate (As CaCO3)	56			53.1		mg/L				5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-675245/1
Matrix: Water
Analysis Batch: 675245

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0			mg/L			11/15/24 09:44	1

Lab Sample ID: LCS 280-675245/2
Matrix: Water
Analysis Batch: 675245

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)			505	500		mg/L		99	88 - 114		

Lab Sample ID: 280-199542-A-14 DU
Matrix: Water
Analysis Batch: 675245

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	100			104		mg/L				0	10

Lab Sample ID: 280-199588-A-5 DU
Matrix: Water
Analysis Batch: 675245

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	5200			4940		mg/L				5	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-675869/1
Matrix: Water
Analysis Batch: 675869

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0			mg/L			11/20/24 10:59	1

Lab Sample ID: LCS 280-675869/2
Matrix: Water
Analysis Batch: 675869

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			505	469		mg/L		93	79 - 114		

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 280-199469-A-1 DU
Matrix: Water
Analysis Batch: 675869

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	5.2			5.60		mg/L				7	10

Lab Sample ID: 280-199640-A-13 DU
Matrix: Water
Analysis Batch: 675869

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	10

Lab Sample ID: MB 280-676794/1
Matrix: Water
Analysis Batch: 676794

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/27/24 08:49	1

Lab Sample ID: LCS 280-676794/2
Matrix: Water
Analysis Batch: 676794

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			504	490		mg/L		97	79 - 114		

Lab Sample ID: 280-199833-D-1 DU
Matrix: Water
Analysis Batch: 676794

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	130			118		mg/L				7	10

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-676876/35
Matrix: Water
Analysis Batch: 676876

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			11/26/24 22:10	1

Lab Sample ID: MB 280-676876/68
Matrix: Water
Analysis Batch: 676876

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			11/27/24 06:14	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 280-676876/34
Matrix: Water
Analysis Batch: 676876

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.4		mg/L		98	88 - 112

Lab Sample ID: LCS 280-676876/67
Matrix: Water
Analysis Batch: 676876

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	25.4		mg/L		101	88 - 112

Lab Sample ID: 280-199650-C-2 MS
Matrix: Water
Analysis Batch: 676876

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.0		25.0	26.1		mg/L		100	88 - 112

Lab Sample ID: 280-199650-C-2 MSD
Matrix: Water
Analysis Batch: 676876

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.0		25.0	26.6		mg/L		102	88 - 112	2	15

Lab Sample ID: 280-199650-C-5 MS
Matrix: Water
Analysis Batch: 676876

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	ND		25.0	25.9		mg/L		104	88 - 112

Lab Sample ID: 280-199650-C-5 MSD
Matrix: Water
Analysis Batch: 676876

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	26.0		mg/L		104	88 - 112	0	15

Lab Sample ID: MB 280-677202/35
Matrix: Water
Analysis Batch: 677202

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/02/24 22:00	1

Lab Sample ID: LCS 280-677202/34
Matrix: Water
Analysis Batch: 677202

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.8		mg/L		99	88 - 112

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: 280-199768-B-2 MS
Matrix: Water
Analysis Batch: 677202

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	1.3		25.0	25.8		mg/L		98	88 - 112		

Lab Sample ID: 280-199768-B-2 MSD
Matrix: Water
Analysis Batch: 677202

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.3		25.0	25.8		mg/L		98	88 - 112	0	15

GC/MS VOA

Analysis Batch: 675316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	8260D SIM	
280-199586-10	MW-42	Total/NA	Water	8260D SIM	
280-199586-11	MW-32	Total/NA	Water	8260D SIM	
280-199586-12	MW-19C	Total/NA	Water	8260D SIM	
280-199586-13	MW-34A	Total/NA	Water	8260D SIM	
280-199586-14	MW-43	Total/NA	Water	8260D SIM	
280-199586-15	MW-29	Total/NA	Water	8260D SIM	
280-199586-16	DUP1	Total/NA	Water	8260D SIM	
MB 280-675316/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 280-675316/1002	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 280-675316/3	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 675947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	8260D	
280-199586-10	MW-42	Total/NA	Water	8260D	
280-199586-11	MW-32	Total/NA	Water	8260D	
280-199586-12	MW-19C	Total/NA	Water	8260D	
280-199586-13	MW-34A	Total/NA	Water	8260D	
280-199586-14	MW-43	Total/NA	Water	8260D	
280-199586-15	MW-29	Total/NA	Water	8260D	
280-199586-16	DUP1	Total/NA	Water	8260D	
MB 280-675947/9	Method Blank	Total/NA	Water	8260D	
LCS 280-675947/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-675947/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-675947/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-675947/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 675164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Dissolved	Water	3005A	
280-199586-10	MW-42	Dissolved	Water	3005A	
280-199586-11	MW-32	Dissolved	Water	3005A	
280-199586-12	MW-19C	Dissolved	Water	3005A	
280-199586-13	MW-34A	Dissolved	Water	3005A	
280-199586-14	MW-43	Dissolved	Water	3005A	
280-199586-15	MW-29	Dissolved	Water	3005A	
280-199586-16	DUP1	Dissolved	Water	3005A	
MB 280-675164/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-675164/24-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-675164/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199536-N-1-C MS	Matrix Spike	Dissolved	Water	3005A	
280-199536-N-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
280-199570-B-14-B MS	Matrix Spike	Dissolved	Water	3005A	
280-199570-B-14-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 675213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 675213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-10	MW-42	Total Recoverable	Water	3005A	
280-199586-11	MW-32	Total Recoverable	Water	3005A	
280-199586-12	MW-19C	Total Recoverable	Water	3005A	
280-199586-13	MW-34A	Total Recoverable	Water	3005A	
280-199586-14	MW-43	Total Recoverable	Water	3005A	
280-199586-15	MW-29	Total Recoverable	Water	3005A	
280-199586-16	DUP1	Total Recoverable	Water	3005A	
MB 280-675213/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-675213/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-675213/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199622-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-199622-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-199622-A-1-E MS	Matrix Spike	Total/NA	Water	3005A	
280-199622-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 675444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Dissolved	Water	6020B	675164
280-199586-10	MW-42	Dissolved	Water	6020B	675164
280-199586-11	MW-32	Dissolved	Water	6020B	675164
280-199586-12	MW-19C	Dissolved	Water	6020B	675164
280-199586-14	MW-43	Dissolved	Water	6020B	675164
280-199586-15	MW-29	Dissolved	Water	6020B	675164
MB 280-675164/1-A	Method Blank	Total Recoverable	Water	6020B	675164
LCS 280-675164/24-A	Lab Control Sample	Total Recoverable	Water	6020B	675164

Analysis Batch: 675457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total Recoverable	Water	6010D	675213
280-199586-10	MW-42	Total Recoverable	Water	6010D	675213
280-199586-11	MW-32	Total Recoverable	Water	6010D	675213
280-199586-12	MW-19C	Total Recoverable	Water	6010D	675213
280-199586-13	MW-34A	Total Recoverable	Water	6010D	675213
280-199586-14	MW-43	Total Recoverable	Water	6010D	675213
280-199586-15	MW-29	Total Recoverable	Water	6010D	675213
280-199586-16	DUP1	Total Recoverable	Water	6010D	675213
MB 280-675213/1-A	Method Blank	Total Recoverable	Water	6010D	675213
LCS 280-675213/2-A	Lab Control Sample	Total Recoverable	Water	6010D	675213
280-199622-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010D	675213
280-199622-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010D	675213

Analysis Batch: 675610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-16	DUP1	Dissolved	Water	6020B	675164
280-199570-B-14-B MS	Matrix Spike	Dissolved	Water	6020B	675164
280-199570-B-14-C MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	675164

Analysis Batch: 675612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total Recoverable	Water	6020B	675213
280-199586-10	MW-42	Total Recoverable	Water	6020B	675213

Metals (Continued)

Analysis Batch: 675612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-11	MW-32	Total Recoverable	Water	6020B	675213
280-199586-12	MW-19C	Total Recoverable	Water	6020B	675213
280-199586-13	MW-34A	Total Recoverable	Water	6020B	675213
280-199586-14	MW-43	Total Recoverable	Water	6020B	675213
280-199586-15	MW-29	Total Recoverable	Water	6020B	675213
280-199586-16	DUP1	Total Recoverable	Water	6020B	675213
MB 280-675213/1-A	Method Blank	Total Recoverable	Water	6020B	675213
LCS 280-675213/25-A	Lab Control Sample	Total Recoverable	Water	6020B	675213
280-199622-A-1-E MS	Matrix Spike	Total/NA	Water	6020B	675213
280-199622-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	675213

Analysis Batch: 675805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total Recoverable	Water	6020B	675213
280-199586-10	MW-42	Total Recoverable	Water	6020B	675213
280-199586-11	MW-32	Total Recoverable	Water	6020B	675213
280-199586-12	MW-19C	Total Recoverable	Water	6020B	675213
280-199586-13	MW-34A	Total Recoverable	Water	6020B	675213
280-199586-14	MW-43	Total Recoverable	Water	6020B	675213
280-199586-15	MW-29	Total Recoverable	Water	6020B	675213
280-199586-16	DUP1	Total Recoverable	Water	6020B	675213
MB 280-675213/1-A	Method Blank	Total Recoverable	Water	6020B	675213
LCS 280-675213/25-A	Lab Control Sample	Total Recoverable	Water	6020B	675213
280-199622-A-1-E MS	Matrix Spike	Total/NA	Water	6020B	675213
280-199622-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	675213

Analysis Batch: 676002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-10	MW-42	Total Recoverable	Water	6020B	675213
280-199586-11	MW-32	Total Recoverable	Water	6020B	675213
280-199586-12	MW-19C	Total Recoverable	Water	6020B	675213
280-199586-13	MW-34A	Total Recoverable	Water	6020B	675213
280-199586-14	MW-43	Total Recoverable	Water	6020B	675213
280-199586-15	MW-29	Total Recoverable	Water	6020B	675213
280-199586-16	DUP1	Total Recoverable	Water	6020B	675213

Analysis Batch: 676043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Dissolved	Water	6010D	675164
280-199586-10	MW-42	Dissolved	Water	6010D	675164
280-199586-11	MW-32	Dissolved	Water	6010D	675164
280-199586-12	MW-19C	Dissolved	Water	6010D	675164
280-199586-13	MW-34A	Dissolved	Water	6010D	675164
280-199586-14	MW-43	Dissolved	Water	6010D	675164
280-199586-15	MW-29	Dissolved	Water	6010D	675164
280-199586-16	DUP1	Dissolved	Water	6010D	675164
MB 280-675164/1-A	Method Blank	Total Recoverable	Water	6010D	675164
LCS 280-675164/2-A	Lab Control Sample	Total Recoverable	Water	6010D	675164
280-199536-N-1-C MS	Matrix Spike	Dissolved	Water	6010D	675164
280-199536-N-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	675164

QC Association Summary

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Metals

Prep Batch: 677352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total Recoverable	Water	3005A	
MB 280-677352/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-677352/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-200255-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-200255-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 677377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-13	MW-34A	Dissolved	Water	3005A	
MB 280-677377/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-677377/11-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-200197-A-6-E MS	Matrix Spike	Dissolved	Water	3005A	
280-200197-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 677505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total Recoverable	Water	6020B	677352
MB 280-677352/1-A	Method Blank	Total Recoverable	Water	6020B	677352
LCS 280-677352/2-A	Lab Control Sample	Total Recoverable	Water	6020B	677352
280-200255-A-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	677352
280-200255-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	677352

Analysis Batch: 677549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total Recoverable	Water	6020B	677352
280-199586-13	MW-34A	Dissolved	Water	6020B	677377
MB 280-677352/1-A	Method Blank	Total Recoverable	Water	6020B	677352
MB 280-677377/1-A	Method Blank	Total Recoverable	Water	6020B	677377
LCS 280-677352/2-A	Lab Control Sample	Total Recoverable	Water	6020B	677352
LCS 280-677377/11-A	Lab Control Sample	Total Recoverable	Water	6020B	677377
280-200197-A-6-E MS	Matrix Spike	Dissolved	Water	6020B	677377
280-200197-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	677377
280-200255-A-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	677352
280-200255-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	677352

General Chemistry

Analysis Batch: 675193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	353.2	
280-199586-10	MW-42	Total/NA	Water	353.2	
280-199586-11	MW-32	Total/NA	Water	353.2	
280-199586-12	MW-19C	Total/NA	Water	353.2	
280-199586-13	MW-34A	Total/NA	Water	353.2	
280-199586-14	MW-43	Total/NA	Water	353.2	
280-199586-15	MW-29	Total/NA	Water	353.2	
280-199586-16	DUP1	Total/NA	Water	353.2	

Analysis Batch: 675226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 675226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-10	MW-42	Total/NA	Water	300.0	
280-199586-11	MW-32	Total/NA	Water	300.0	
280-199586-12	MW-19C	Total/NA	Water	300.0	
280-199586-13	MW-34A	Total/NA	Water	300.0	
280-199586-14	MW-43	Total/NA	Water	300.0	
MB 280-675226/55	Method Blank	Total/NA	Water	300.0	
MB 280-675226/91	Method Blank	Total/NA	Water	300.0	
LCS 280-675226/53	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-675226/89	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-675226/54	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-675226/90	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-675226/3	Lab Control Sample	Total/NA	Water	300.0	
280-199319-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-199319-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-199542-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-199542-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-199319-A-1 DU	Duplicate	Total/NA	Water	300.0	
280-199542-A-3 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 675245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	SM 2540C	
280-199586-10	MW-42	Total/NA	Water	SM 2540C	
280-199586-11	MW-32	Total/NA	Water	SM 2540C	
280-199586-12	MW-19C	Total/NA	Water	SM 2540C	
280-199586-13	MW-34A	Total/NA	Water	SM 2540C	
280-199586-14	MW-43	Total/NA	Water	SM 2540C	
280-199586-15	MW-29	Total/NA	Water	SM 2540C	
280-199586-16	DUP1	Total/NA	Water	SM 2540C	
MB 280-675245/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-675245/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-199542-A-14 DU	Duplicate	Total/NA	Water	SM 2540C	
280-199588-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 675869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	SM 2540D	
280-199586-11	MW-32	Total/NA	Water	SM 2540D	
280-199586-12	MW-19C	Total/NA	Water	SM 2540D	
280-199586-13	MW-34A	Total/NA	Water	SM 2540D	
280-199586-14	MW-43	Total/NA	Water	SM 2540D	
280-199586-15	MW-29	Total/NA	Water	SM 2540D	
280-199586-16	DUP1	Total/NA	Water	SM 2540D	
MB 280-675869/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-675869/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-199469-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	
280-199640-A-13 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 676072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 676072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-10	MW-42	Total/NA	Water	SM 2320B	
280-199586-11	MW-32	Total/NA	Water	SM 2320B	
280-199586-12	MW-19C	Total/NA	Water	SM 2320B	
280-199586-13	MW-34A	Total/NA	Water	SM 2320B	
280-199586-14	MW-43	Total/NA	Water	SM 2320B	
280-199586-15	MW-29	Total/NA	Water	SM 2320B	
280-199586-16	DUP1	Total/NA	Water	SM 2320B	
MB 280-676072/62	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-676072/60	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-676072/61	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-199542-A-5 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 676336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	350.1	
280-199586-10	MW-42	Total/NA	Water	350.1	
280-199586-11	MW-32	Total/NA	Water	350.1	
280-199586-12	MW-19C	Total/NA	Water	350.1	
280-199586-13	MW-34A	Total/NA	Water	350.1	
280-199586-14	MW-43	Total/NA	Water	350.1	
280-199586-16	DUP1	Total/NA	Water	350.1	
MB 280-676336/136	Method Blank	Total/NA	Water	350.1	
LCS 280-676336/137	Lab Control Sample	Total/NA	Water	350.1	
280-199586-13 MS	MW-34A	Total/NA	Water	350.1	
280-199586-13 MSD	MW-34A	Total/NA	Water	350.1	

Analysis Batch: 676794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-10	MW-42	Total/NA	Water	SM 2540D	
MB 280-676794/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-676794/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-199833-D-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 676876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	SM 5310B	
280-199586-10	MW-42	Total/NA	Water	SM 5310B	
280-199586-11	MW-32	Total/NA	Water	SM 5310B	
280-199586-12	MW-19C	Total/NA	Water	SM 5310B	
280-199586-14	MW-43	Total/NA	Water	SM 5310B	
280-199586-16	DUP1	Total/NA	Water	SM 5310B	
MB 280-676876/35	Method Blank	Total/NA	Water	SM 5310B	
MB 280-676876/68	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-676876/34	Lab Control Sample	Total/NA	Water	SM 5310B	
LCS 280-676876/67	Lab Control Sample	Total/NA	Water	SM 5310B	
280-199650-C-2 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-199650-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	
280-199650-C-5 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-199650-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

QC Association Summary

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

General Chemistry

Analysis Batch: 677158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-15	MW-29	Total/NA	Water	300.0	
280-199586-16	DUP1	Total/NA	Water	300.0	
MB 280-677158/6	Method Blank	Total/NA	Water	300.0	
LCS 280-677158/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-677158/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-677158/3	Lab Control Sample	Total/NA	Water	300.0	
280-200188-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-200188-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-200188-F-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 677202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-13	MW-34A	Total/NA	Water	SM 5310B	
MB 280-677202/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-677202/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-199768-B-2 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-199768-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Field Service / Mobile Lab

Analysis Batch: 676580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199586-9	MW-34C	Total/NA	Water	Field Sampling	
280-199586-10	MW-42	Total/NA	Water	Field Sampling	
280-199586-11	MW-32	Total/NA	Water	Field Sampling	
280-199586-12	MW-19C	Total/NA	Water	Field Sampling	
280-199586-13	MW-34A	Total/NA	Water	Field Sampling	
280-199586-14	MW-43	Total/NA	Water	Field Sampling	
280-199586-15	MW-29	Total/NA	Water	Field Sampling	
280-199586-16	DUP1	Total/NA	Water	Field Sampling	

Client Sample ID: MW-34C

Lab Sample ID: 280-199586-9

Date Collected: 11/13/24 11:35

Matrix: Water

Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/20/24 21:44	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 15:52	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 21:30	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 01:29	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6020B		1			675444	11/15/24 22:59	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:01	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 20:42	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	677352	12/04/24 14:53	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			677505	12/05/24 11:06	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	677352	12/04/24 14:53	SLH	EET DEN
Total Recoverable	Analysis	6020B		100			677549	12/05/24 13:20	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675226	11/16/24 06:01	EJS	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 16:45	LBR	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:03	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 04:31	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 12:35	P1C	EET DEN

Client Sample ID: MW-42

Lab Sample ID: 280-199586-10

Date Collected: 11/13/24 15:10

Matrix: Water

Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/20/24 22:05	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 16:13	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 21:47	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 01:33	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6020B		1			675444	11/15/24 23:02	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:05	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 20:45	LMT	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-42
Lab Sample ID: 280-199586-10
Date Collected: 11/13/24 15:10
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		10			676002	11/20/24 13:24	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675226	11/16/24 06:12	EJS	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 16:48	LBR	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:09	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	676794	11/27/24 08:49	MF	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 04:45	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 16:10	P1C	EET DEN

Client Sample ID: MW-32
Lab Sample ID: 280-199586-11
Date Collected: 11/13/24 12:20
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/20/24 22:26	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 16:35	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 21:51	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 01:36	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6020B		1			675444	11/15/24 23:06	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:09	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 20:49	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			676002	11/20/24 13:35	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675226	11/16/24 06:23	EJS	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 16:50	LBR	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:14	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 05:29	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 13:20	P1C	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-19C
Lab Sample ID: 280-199586-12
Date Collected: 11/13/24 11:05
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/20/24 22:47	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 16:56	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 21:56	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 01:40	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6020B		1			675444	11/15/24 23:09	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:12	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 20:52	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			676002	11/20/24 13:39	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675226	11/16/24 06:34	EJS	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 16:52	LBR	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:18	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 05:44	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 12:05	P1C	EET DEN

Client Sample ID: MW-34A
Lab Sample ID: 280-199586-13
Date Collected: 11/13/24 12:40
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/20/24 23:08	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 17:17	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 22:00	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 01:44	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	677377	12/04/24 14:53	SLH	EET DEN
Dissolved	Analysis	6020B		1			677549	12/05/24 13:16	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:16	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 20:56	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			676002	11/20/24 13:42	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675226	11/16/24 07:07	EJS	EET DEN

Client Sample ID: MW-34A
Lab Sample ID: 280-199586-13
Date Collected: 11/13/24 12:40
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:14	LBR	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:23	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	677202	12/03/24 03:30	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 13:40	P1C	EET DEN

Client Sample ID: MW-43
Lab Sample ID: 280-199586-14
Date Collected: 11/13/24 13:40
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/20/24 23:29	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 17:38	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 22:04	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 01:47	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6020B		1			675444	11/15/24 23:16	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:19	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 21:00	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			676002	11/20/24 13:46	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675226	11/16/24 07:18	EJS	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 16:56	LBR	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:27	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 08:29	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 14:40	P1C	EET DEN

Client Sample ID: MW-29
Lab Sample ID: 280-199586-15
Date Collected: 11/13/24 13:38
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/20/24 23:50	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 17:59	KJG	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-29
Lab Sample ID: 280-199586-15
Date Collected: 11/13/24 13:38
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 22:08	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 01:51	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6020B		1			675444	11/15/24 23:20	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:30	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 21:03	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			676002	11/20/24 13:49	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677158	12/03/24 12:13	EJS	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:42	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 14:38	P1C	EET DEN

Client Sample ID: DUP1
Lab Sample ID: 280-199586-16
Date Collected: 11/13/24 13:48
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	675947	11/21/24 00:12	CCF	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 18:21	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6010D		1			676043	11/20/24 22:12	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/18/24 02:05	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675164	11/15/24 08:23	SMK	EET DEN
Dissolved	Analysis	6020B		1			675610	11/18/24 15:20	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 20:34	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 21:07	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675213	11/15/24 14:29	SLH	EET DEN
Total Recoverable	Analysis	6020B		1			676002	11/20/24 13:53	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677158	12/03/24 16:08	EJS	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 16:58	LBR	EET DEN
Total/NA	Analysis	353.2		1			675193	11/14/24 23:55	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 01:46	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675245	11/15/24 09:44	BRD	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199586-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: DUP1
Date Collected: 11/13/24 13:48
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199586-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 08:44	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676580	11/13/24 14:48	P1C	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

11 December 2024

Janice Collins
Eurofins - Test America - Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Olympic View Sanitary LF (OVSL) w/SCS Engineers (28002692)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
24K0530	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager

Cert# 100006-012

Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24K0530	Turn-around Requested: Standard	Date: 11/18/24	
AR Client Company: SCS Engineers	Phone: 425-507-6703	Page: 1 of 2	
Client Contact: Jovany Estrada		No. of Coolers:	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.27	Samplers: JE/AD		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low level Arsenic	Notes/Comments
MW-13A	11/14/24	1001	water	1		
MW-13B		1041				
MW-15R		1150				
MW-35		1133				
MW-19C	11/13/24	1105				
MW-29A		1338				
MW-32		1220				
DUP 1		1348				
MW-33A	11/14/24	1400				
MW-33C		1447				

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Jovany Estrada	Printed Name: Emma Stewart	Printed Name:	Printed Name:
	Company: SCS	Company: ARLLC	Company:	Company:
	Date & Time:	Date & Time: 11/19/24 13:30	Date & Time:	Date & Time:

Limits of Liability: *Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.*

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24K0530	Turn-around Requested: standard	Date: 11/18/24	
AR Client Company: SCS Engineers	Phone: 425-507-6703	Page: 2 of 2	
Client Contact: Jovany Estrada		No. of Coolers: 1	Cooler Temps: 3.4
Client Project Name: OVSL			
Client Project #: 042040027.27	Samplers: JE/AD		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low level Arsenic	Notes/Comments
MW-34A	11/13/24	1240	water	1		
MW-34C	↓	1135	↓	↓		
MW-35A	11/14/24	1220				
MW-36A	↓	1250				
MW-39	↓	1425				
MW-42	11/13/24	1510				
MW-43	↓	1340				
DUP 2	11/14/24	1300	↓	↓	↓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Jovany Estrada	[signature]		
	Printed Name: Jovany Estrada	Printed Name: Emme Stevens	Printed Name:	Printed Name:
	Company: SCS	Company: ARLLC	Company:	Company:
	Date & Time:	Date & Time: 11/19/24 1330	Date & Time:	Date & Time:

Limits of Liability: *Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.*

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13A	24K0530-01	Water	14-Nov-2024 10:01	18-Nov-2024 11:30
MW-13B	24K0530-02	Water	14-Nov-2024 10:41	18-Nov-2024 11:30
MW-15R	24K0530-03	Water	14-Nov-2024 11:50	18-Nov-2024 11:30
MW-35	24K0530-04	Water	14-Nov-2024 11:33	18-Nov-2024 11:30
MW-19C	24K0530-05	Water	13-Nov-2024 11:05	18-Nov-2024 11:30
MW-29A	24K0530-06	Water	13-Nov-2024 13:38	18-Nov-2024 11:30
MW-32	24K0530-07	Water	13-Nov-2024 12:20	18-Nov-2024 11:30
DUP 1	24K0530-08	Water	13-Nov-2024 13:48	18-Nov-2024 11:30
MW-33A	24K0530-09	Water	14-Nov-2024 14:00	18-Nov-2024 11:30
MW-33C	24K0530-10	Water	14-Nov-2024 14:47	18-Nov-2024 11:30
MW-34A	24K0530-11	Water	13-Nov-2024 12:40	18-Nov-2024 11:30
MW-34C	24K0530-12	Water	13-Nov-2024 11:35	18-Nov-2024 11:30
MW-35A	24K0530-13	Water	14-Nov-2024 12:20	18-Nov-2024 11:30
MW-36A	24K0530-14	Water	14-Nov-2024 12:50	18-Nov-2024 11:30
MW-39	24K0530-15	Water	14-Nov-2024 14:25	18-Nov-2024 11:30
MW-42	24K0530-16	Water	13-Nov-2024 15:10	18-Nov-2024 11:30
MW-43	24K0530-17	Water	13-Nov-2024 13:40	18-Nov-2024 11:30
DUP 2	24K0530-18	Water	14-Nov-2024 13:00	18-Nov-2024 11:30

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers
Project Number: 28002692
Work Order: 24K0530

Sample receipt

Samples as listed on the preceding page were received 18-Nov-2024 11:30 under ARI work order 24K0530. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Metals - EPA Method 6020B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

Analytical Resources, LLC
Analytical Chemists and Consultants

Printed: 11/21/2024 11:41:02AM

WORK ORDER

24K0530

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Eurofins - Test America - Denver **Project Manager:** Shelly Fishel

Project: Olympic View Sanitary LF (OVSL) w/SCS Engine **Project Number:** 28002692 (Job# please enter)

Preservation Confirmation

Container ID	Container Type	pH
24K0530-01 A	HDPE NM, 250mL HNO3	<2 Pass
24K0530-02 A	HDPE NM, 250mL HNO3	
24K0530-03 A	HDPE NM, 250mL HNO3	
24K0530-04 A	HDPE NM, 250mL HNO3	
24K0530-05 A	HDPE NM, 250mL HNO3	
24K0530-06 A	HDPE NM, 250mL HNO3	
24K0530-07 A	HDPE NM, 250mL HNO3	
24K0530-08 A	HDPE NM, 250mL HNO3	
24K0530-09 A	HDPE NM, 250mL HNO3	
24K0530-10 A	HDPE NM, 250mL HNO3	
24K0530-11 A	HDPE NM, 250mL HNO3	
24K0530-12 A	HDPE NM, 250mL HNO3	
24K0530-13 A	HDPE NM, 250mL HNO3	
24K0530-14 A	HDPE NM, 250mL HNO3	
24K0530-15 A	HDPE NM, 250mL HNO3	
24K0530-16 A	HDPE NM, 250mL HNO3	
24K0530-17 A	HDPE NM, 250mL HNO3	
24K0530-18 A	HDPE NM, 250mL HNO3	

RL
Preservation Confirmed By

11-21-24
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins Denver SCS Engineers Project Name: OVSL

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other:____

Assigned ARI Job No: 24K0530 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) Time 15:30 3.4 _____ _____ _____ _____ _____ Temp Gun ID#: 8117		
Was a temperature blank included in the cooler?	YES	(NO)
Were coolers received between 0°- 6° (°C)	(YES)	NO
Was sufficient ice used (if appropriate)?	NA (YES)	NO

Cooler Accepted by: ES Date: 11/18/24 Time: 13:30

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block N/A Other: _____

Are any samples that were out of temperature compliance documented in LIMS?		YES	(NO)
How were bottles sealed in plastic bags?	Individually	Grouped	(Not)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		YES	(NO)
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		YES	(NO)
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RL Date: 11-21-24 Time: 11:13 Labels checked by: RL

*** Notify Project Manager of discrepancies or concerns ***

Additional Notes, Discrepancies, & Resolutions:

There are two 34C samples and missing 34A.

Determined which sample by the sample time. Added detail Shelly Fishel 11/23/2024

By: Date:

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-13A
24K0530-01 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 10:01
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:19

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-01 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.208	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-13B

24K0530-02 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 10:41
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:22

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-02 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.330	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-15R

24K0530-03 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 11:50

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:26

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-03 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.238	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-35

24K0530-04 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 11:33

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:29

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-04 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.381	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-19C

24K0530-05 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 11:05
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:33

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-05 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.08	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-29A

24K0530-06 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:38

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:36

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-06 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.20	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-32

24K0530-07 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 12:20

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:40

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-07 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	9.30	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

DUP 1

24K0530-08 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:48

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:43

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-08 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.09	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-33A

24K0530-09 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:00

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:20

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-09 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	2	0.0149	0.0800	0.125	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-33C

24K0530-10 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:47

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:47

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-10 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.70	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-34A

24K0530-11 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 12:40

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:24

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-11 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	2	0.0149	0.0800	3.00	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-34C

24K0530-12 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 11:35

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:27

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-12 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0373	0.200	13.4	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-35A

24K0530-13 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 12:20

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:03

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-13 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.115	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-36A

24K0530-14 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 12:50

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/09/2024 20:57

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-14 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.499	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-39

24K0530-15 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:25

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:10

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-15 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	1.23	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-42

24K0530-16 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 15:10

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:14

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-16 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.50	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-43

24K0530-17 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:40

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:17

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-17 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.0536	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

DUP 2

24K0530-18 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 13:00

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:21

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-18 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.463	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0007 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0007-BLK1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:03						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0007-BS1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:07						
Arsenic	75a	4.71	0.00746	0.0400	ug/L	5.00		94.2	80-120			
LCS Dup (BML0007-BSD1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:10						
Arsenic	75a	4.75	0.00746	0.0400	ug/L	5.00		95.0	80-120	0.85	20	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0033 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0033-BLK1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:14						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0033-BS1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:17						
Arsenic	75a	4.74	0.00746	0.0400	ug/L	5.00		94.7	80-120			

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B UCT-KED in Water	
Arsenic-75a	WADOE,DoD-ELAP,ADEC,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: TC/AD	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-17318-3224.1
Client Contact: Mr. Patrick Madej	Phone: 925-5076703	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: WA	Page: 1 of 1
Company: Waste Management				Job #: WA02
Address: 2615 Davis Street	Due Date Requested: standard			
City: San Leandro	TAT Requested (days):			
State, Zip: CA, 94577	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692 - Seminnual GW Appl/II - May Nov			
Site: Washington	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 - Na2S2SO3, 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)	TDS/Alks/Cl/SO4/NO3(cad)	6010D/6020B - Dissolved Metals (FF)	6010D/6020B - Total Metals	2540D - TSS	Ammonia/TOC	8260C - VOCs	8260C_SIM - Vinyl chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	N	S	A	A		
MW-34C	11/13/24	1135	G	W	N	N	X	X	X	X	X	X	X		Short Hold: NO3(cad)
MW-42		1510													
MW-32		1220													
MW-19C		1165													
MW-34A		1240													
MW-43		1340													
MW-29		1338													
Dup 1		1345													

280-199586 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Jorvus Esthen	11/13/24 1510	SCS		11/14/24 09:05	EET DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8/5.5/1.9/3.3/5.0 IR PABU CF+0.2

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: ____ Sample Point: MW-34 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	120				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: ____

Filter Device: (Y) or N — (0.45 µ) or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 42.22 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 05 (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc, are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1115	1st	6.24	188	10.9	350	8.9	850	
1120	2nd	6.36	188	12.4	9803	8.0	-17.5	
1123	3rd	6.39	187	12.4	7022	7.7	-15.1	
1126	4th	6.40	186	12.4	6131	7.6	-14.8	
1129		6.40	186	12.4	5542	7.3	-16.6	
1132		6.44	186	12.4	3451	7.0	-20.3	
1135		6.45	186	12.4	2479	0.7	-25.4	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 13 24	6.45	186	12.4	2479	0.7	-25.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — **Odor:** — **Color:** — **Other:** —

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** — **Outlook:** — **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

8.7 | 50 psi App III parameters

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11,13,24	Jovany Estrada	jovanyestrada	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CVSL

Site No.: ____ Sample Point: MW-42 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1450	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: -

Filter Device: Y or N — (0.45 µ) or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 27.16 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 02 (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1450	1st	6.14	385	12.1	200	2.9	70	
1455	2nd	6.27	435	12.0	156	0.7	-73.9	
1458	3rd	6.31	442	12.0	281	0.5	-91.1	
1501	4th	6.33	446	12.0	343	0.5	-100.1	
1504		6.36	448	12.0	426	0.5	-109.1	
1507		6.37	448	12.0	521	0.4	-114.2	
1510		6.38	451	11.9	650	0.4	-117.9	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 13 24	6.38	451	11.9	650	0.4	-117.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: — — Color: — — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

96 40 psi App III 5 year

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11,13,24	Tovany Estrada	JE	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: | | | | |

Sample Point: MW-32

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1700	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: D

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 15.1 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1200		1st 5.54	1st 281	11.5	6.1	3.9	352.4	
1205		2nd 6.41	2nd 317	11.6	6.4	1.7	321.0	
1208		3rd 6.49	3rd 314	11.6	4.6	1.3	311.3	
1211		4th 6.52	4th 313	11.6	4.1	1.1	305.3	
1214		6.41	311	11.6	3.9	1.0	299	
1217		6.55	310	11.6	3.6	0.8	287.1	
1220		6.56	308	11.6	3.4	0.8	286.6	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	—	—	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 13 24	6.56	308	11.6	3.4	0.8	286.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

9/6/14 pc:

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11, 13, 24	Alex Deza	AD	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: | | | | | Sample Point: MW19C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1045	2:0			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N — Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: _____

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl) — Depth to Water (DTW) (from TOC): 34.65 (ft) — Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft) — Stick Up (from ground elevation): _____ (ft) — Casing ID: 02 (in) — Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1045		5.49	0.167	10.5	73	0.4	354	
2nd	1650		5.92	0.185	10.3	65	3.0	342	
3rd	1053		6.05	0.183	10.2	50	2.1	339	
4th	1056		6.13	0.182	10.2	39	1.7	326	
	1059		6.21	0.181	10.2	37	1.4	316	
	1102		6.27	0.180	10.2	38	1.2	308	
	1105		6.30	0.179	10.2	36	1.1	302	
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 13 24	6.30	179	10.2	36	1.1	302.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: — — Color: — — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

916/60 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Alex Reizo	[signature]	SLS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: DVSL

Site No.: ____ Sample Point: MW-34A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1220	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: [Y] or [N]

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Purging Device [ ] — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device [ ] — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Type: [ ] — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: [ ] — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 40.40 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID 05 (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1220		1st 6.20	1st 209	11.5	3.3	3.3	718	
1225		2nd 6.23	2nd 228	11.6	3.3	1.1	179	
1228		3rd 6.25	3rd 226	11.6	3.3	4.1	39	
1231		4th 6.22	4th 219	11.6	3.3	0.7	0.8	
1234		6.18	212	11.6	3.3	0.7	2.8	
1237		6.16	209	11.6	3.2	0.7	4.7	
1240		6.14	206	11.6	3.1	0.7	7.5	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 13 24	6.14	206	11.6	3.1	0.7	7.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

4/6 30 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11, 13, 24	Jovany Estrada	JE	SCS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: | | | | | Sample Point: MW-43 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	13:20	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: _____

Filter Device: (Y) or N — (0.45) or _____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 20.41 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 02 (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1320	1st	5.62	1st 54	11.3	1023	4.3	1238	
1325	2nd	5.60	2nd 54	11.2	1240	3.8	1240	
1328	3rd	5.59	3rd 54	11.2	1247	3.6	1248	
1331	4th	5.59	4th 54	11.2	999	3.6	1255	
1334		5.58	54	11.2	775	3.6	1259	
1337		5.58	54	11.2	558	3.5	1260	
1340		5.58	54	11.2	499	3.5	1263	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 13 24	5.58	54	11.2	49	3.5	1263	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear **Odor:** — **Color:** — **Other:** —

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** — **Outlook:** — **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

9 6 80 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Jovany Estrada	JE	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSC

Site No.:

Sample Point: MW-29 (4000) A — Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 24	1318	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment Dedicated: (D) or N

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (P) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 12.69 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1318		1st 6.33	1st 1101	11.1	86	5.0	311.2	
1323		2nd 6.10	2nd 1105	11.0	43	2.2	306.4	
1328		3rd 6.04	3rd 1104	11.6	28.1	1.6	299.5	
1329		4th 6.02	4th 1104	11.0	41.9	1.4	292.8	
1334		6.00	1104	11.0	6.3	1.1	283.6	
1335		5.98	1104	12.0	6.2	1.0	272.9	
1338		5.98	1103	11.0	4.0	0.9	263.8	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State) These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 13 24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: — — Color: — — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: (Y) or N

FIELD COMMENTS

Specific Comments (including purge/well volume calculations if required):

916120 psi DUP-1 @ 13:48

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/24	Alex Deszo	AD	SCS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

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RMA:
280-199586 Vaybill
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
80002
DEN
CO-US
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TRK# 0221 7385 6156 0453
XA LAAA
TRK# 0667 8185 0748 9041
XA LAAA
TO SAMPLE RECEIVING
ENVIRON TESTING - DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
REF:
DEPT:
INV:
PO:
ORIGIN ID:PWTA
SHIP DATE: 13NOV24
ACTWGT: 20.70 LB
CAD: /SSFE2560
DIMS: 24x16x14 IN
Part # 166297-435 RRDB EXP 07/25

XA LAAA
TRK# 0682 8185 0749 6411
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80002
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(303) 738-0100
ARVADA CO 80002
555 YARROW ST - DENVER
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VIRON TESTING
SHIP DATE: 13NOV24
ACTWGT: 54.00 LB
CAD: /SSFE2560
DIMS: 24x16x12 IN
(US)
Part # 156
XA LAAA
TRK# 0221 7385 6156 0464
FedEx
THU - 14 NOV 10:30AT
PRIORITY OVERNIGHT
80002
DEN
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SHIPPING MANAGER
TEST AMERICA
4955 YARROW ST
RETURNS
ARVADA CO 80002
(303) 736-0100
REF: S280-145144
RM4:
UNITED STATES US

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199586-1

Login Number: 199586
List Number: 1
Creator: Little, Matthew L

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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.	False	Refer to job narrative for details
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

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JOB DESCRIPTION

WA02|Olympic View Sanitary LF - Groundwater
App III Groundwater 3 yr ('18, '21, '24)

JOB NUMBER

280-199595-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

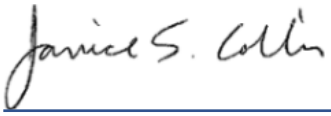
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-199595-1 Eurofins Denver

Job Narrative
280-199595-1

Revision
The report being provided is a revision of the original report sent on 12/4/2024. The report (revision 1) is being revised to include subcontract data for Low level Arsenic from Analytical Resources, LLC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 11/14/2024 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.1°C, 3.0°C, 3.5°C, 5.2°C and 5.7°C.

Receipt Exceptions
One of eight 1L unpreserved Amber glass containers for the following sample(s) was received broken : MW-19C (280-199595-2). Sufficient volume remained for all requested analyses.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-732871 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.The associated samples are impacted: TRIP BLANK (280-199595-1), MW-19C (280-199595-2) and MW-32 (280-199595-3).

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

GC/MS Semi VOA
Method 8270E: The following samples MW-19C (280-199595-2) and MW-32 (280-199595-3) in preparation batch 280-675636 was decanted prior to preparation due to incorrect volume sent.

Method 8270E: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675636.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 280-675636 and analytical batch 280-675811 recovered outside control limits for the following analytes: Hexachlorocyclopentadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 280-675636 and analytical batch 280-675811 recovered outside control limits for the following analyte(s): Methapyrilene. Methapyrilene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-

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analysis was not performed.

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

Herbicides
Method 8151A: The following samples were diluted due to the nature of the sample matrix: MW-19C (280-199595-2) and MW-32 (280-199595-3). Elevated reporting limits (RLs) are provided.

Method 8151A: The laboratory control sample duplicate (LCSD) for preparation batch 410-576393 and analytical batch 410-576549 recovered outside control limits bias low for the following analyte: Dinoseb. The recovery for the analyte is 7% (the limit is 10-169%) but Dinoseb is a problematic compound to recover. The associated sample was not detected; therefore, the data have been reported. MW-19C (280-199595-2) and MW-32 (280-199595-3)

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

PCBs
Method 8082A: EPA Method 8082/8082A requires a minimum of 3 peaks to be used for PCB quantitation. Due to the presence of matrix interferences in the following sample(s) in preparation batch 280-675319 and analytical batch 280-675450, only 4 peaks were used for quantitation of Aroclor 1016 rather than the 5 used for quantitation. (LCSD 280-675319/5-A)

Method 8082A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 280-675319 and analytical batch 280-675450 recovered outside control limits for the following analytes: Aroclor 1260. (LCS 280-675319/4-A) and (LCSD 280-675319/5-A)

Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675319. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 8081, 8082, 608.3

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

Pesticides
Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675319. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 8081, 8082, 608.3

Method 8141B: The continuing calibration verification (CCV) associated with preparation batch 280-675621 and analytical batch 280-675806 recovered above the upper control limit for Phorate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-19C (280-199595-2), MW-32 (280-199595-3), (CCV 280-675806/16) and (CCVIS 280-675806/5).

Method 8141B: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-675621. Method 8141/614

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

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

General Chemistry
Method 9012B_NP: The matrix spike (MS) recoveries for analytical batch 280-675967 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Detection Summary

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-199595-1

No Detections.

Client Sample ID: MW-19C — Lab Sample ID: 280-199595-2

No Detections.

Client Sample ID: MW-32 — Lab Sample ID: 280-199595-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET DEN
8081B	Organochlorine Pesticides (GC)	SW846	EET DEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET DEN
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
8151A	Herbicides (GC)	SW846	ELLE
6010D	Metals (ICP)	SW846	EET DEN
7470A	Mercury (CVAA)	SW846	EET DEN
9012B	Cyanide, Total and/or Amenable	SW846	EET DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET DEN
8151A	Extraction (Herbicides)	SW846	ELLE
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET DEN

Protocol References:

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Sample Summary

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199595-1	TRIP BLANK	Water	11/13/24 00:00	11/14/24 09:05
280-199595-2	MW-19C	Water	11/13/24 11:05	11/14/24 09:05
280-199595-3	MW-32	Water	11/13/24 12:20	11/14/24 09:05

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

Client Sample ID: TRIP BLANK
Date Collected: 11/13/24 00:00
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 13:39	1
Acetonitrile	ND		15		ug/L			11/19/24 13:39	1
Acrolein	ND		20		ug/L			11/19/24 13:39	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 13:39	1
Benzene	ND		1.0		ug/L			11/19/24 13:39	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 13:39	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 13:39	1
Bromoform	ND		1.0		ug/L			11/19/24 13:39	1
Bromomethane	ND		1.0		ug/L			11/19/24 13:39	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 13:39	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 13:39	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 13:39	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 13:39	1
Chloroprene	ND		1.0		ug/L			11/19/24 13:39	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 13:39	1
Chloroethane	ND		1.0		ug/L			11/19/24 13:39	1
Chloroform	ND		1.0		ug/L			11/19/24 13:39	1
Chloromethane	ND		1.0		ug/L			11/19/24 13:39	1
Allyl chloride	ND		1.0		ug/L			11/19/24 13:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 13:39	1
Dibromomethane	ND		1.0		ug/L			11/19/24 13:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 13:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 13:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 13:39	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 13:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 13:39	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 13:39	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 13:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 13:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 13:39	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 13:39	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 13:39	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 13:39	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 13:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 13:39	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 13:39	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 13:39	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 13:39	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 13:39	1
2-Hexanone	ND		5.0		ug/L			11/19/24 13:39	1
Iodomethane	ND		1.0		ug/L			11/19/24 13:39	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 13:39	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 13:39	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 13:39	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 13:39	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 13:39	1
Naphthalene	ND		1.0		ug/L			11/19/24 13:39	1
Propionitrile	ND		10		ug/L			11/19/24 13:39	1
Styrene	ND		1.0		ug/L			11/19/24 13:39	1

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

Client Sample ID: TRIP BLANK
Date Collected: 11/13/24 00:00
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 13:39	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 13:39	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 13:39	1
Toluene	ND		1.0		ug/L			11/19/24 13:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 13:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 13:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 13:39	1
Trichloroethene	ND		1.0		ug/L			11/19/24 13:39	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 13:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 13:39	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 13:39	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 13:39	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 13:39	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 13:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*11/19/24 13:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/19/24 13:39*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/19/24 13:39*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*11/19/24 13:39*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*11/19/24 13:39*	*1*

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 14:01	1
Acetonitrile	ND		15		ug/L			11/19/24 14:01	1
Acrolein	ND		20		ug/L			11/19/24 14:01	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 14:01	1
Benzene	ND		1.0		ug/L			11/19/24 14:01	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 14:01	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 14:01	1
Bromoform	ND		1.0		ug/L			11/19/24 14:01	1
Bromomethane	ND		1.0		ug/L			11/19/24 14:01	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 14:01	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 14:01	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 14:01	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 14:01	1
Chloroprene	ND		1.0		ug/L			11/19/24 14:01	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 14:01	1
Chloroethane	ND		1.0		ug/L			11/19/24 14:01	1
Chloroform	ND		1.0		ug/L			11/19/24 14:01	1
Chloromethane	ND		1.0		ug/L			11/19/24 14:01	1
Allyl chloride	ND		1.0		ug/L			11/19/24 14:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 14:01	1
Dibromomethane	ND		1.0		ug/L			11/19/24 14:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:01	1

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

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:01	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 14:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 14:01	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 14:01	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 14:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 14:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 14:01	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 14:01	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 14:01	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 14:01	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 14:01	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 14:01	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 14:01	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 14:01	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 14:01	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 14:01	1
2-Hexanone	ND		5.0		ug/L			11/19/24 14:01	1
Iodomethane	ND		1.0		ug/L			11/19/24 14:01	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 14:01	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 14:01	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 14:01	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 14:01	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 14:01	1
Naphthalene	ND		1.0		ug/L			11/19/24 14:01	1
Propionitrile	ND		10		ug/L			11/19/24 14:01	1
Styrene	ND		1.0		ug/L			11/19/24 14:01	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 14:01	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 14:01	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 14:01	1
Toluene	ND		1.0		ug/L			11/19/24 14:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 14:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 14:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 14:01	1
Trichloroethene	ND		1.0		ug/L			11/19/24 14:01	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 14:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 14:01	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 14:01	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 14:01	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 14:01	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 14:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*11/19/24 14:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/19/24 14:01*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/19/24 14:01*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*11/19/24 14:01*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*11/19/24 14:01*	*1*

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

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 14:23	1
Acetonitrile	ND		15		ug/L			11/19/24 14:23	1
Acrolein	ND		20		ug/L			11/19/24 14:23	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 14:23	1
Benzene	ND		1.0		ug/L			11/19/24 14:23	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 14:23	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 14:23	1
Bromoform	ND		1.0		ug/L			11/19/24 14:23	1
Bromomethane	ND		1.0		ug/L			11/19/24 14:23	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 14:23	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 14:23	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 14:23	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 14:23	1
Chloroprene	ND		1.0		ug/L			11/19/24 14:23	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 14:23	1
Chloroethane	ND		1.0		ug/L			11/19/24 14:23	1
Chloroform	ND		1.0		ug/L			11/19/24 14:23	1
Chloromethane	ND		1.0		ug/L			11/19/24 14:23	1
Allyl chloride	ND		1.0		ug/L			11/19/24 14:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 14:23	1
Dibromomethane	ND		1.0		ug/L			11/19/24 14:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:23	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 14:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 14:23	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 14:23	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 14:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 14:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 14:23	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 14:23	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 14:23	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 14:23	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 14:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 14:23	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 14:23	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 14:23	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 14:23	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 14:23	1
2-Hexanone	ND		5.0		ug/L			11/19/24 14:23	1
Iodomethane	ND		1.0		ug/L			11/19/24 14:23	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 14:23	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 14:23	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 14:23	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 14:23	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 14:23	1
Naphthalene	ND		1.0		ug/L			11/19/24 14:23	1
Propionitrile	ND		10		ug/L			11/19/24 14:23	1
Styrene	ND		1.0		ug/L			11/19/24 14:23	1

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

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 14:23	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 14:23	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 14:23	1
Toluene	ND		1.0		ug/L			11/19/24 14:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 14:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 14:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 14:23	1
Trichloroethene	ND		1.0		ug/L			11/19/24 14:23	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 14:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 14:23	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 14:23	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 14:23	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 14:23	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 14:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*11/19/24 14:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*11/19/24 14:23*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/19/24 14:23*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*11/19/24 14:23*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/19/24 14:23*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
5-Nitro-o-toluidine	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosomethylethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosodimethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Methyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosodiethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Ethyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Phenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2-Chlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Benzyl alcohol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Acetophenone	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosopyrrolidine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Hexachloroethane	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Nitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosopiperidine	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
Isophorone	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,4-Dimethylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,4-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
4-Chloroaniline	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,6-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Hexachloropropene	ND		100		ug/L		11/19/24 11:40	11/20/24 11:27	1
Hexachlorobutadiene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
4-Chloro-3-methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Safrole	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
2-Methylnaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Isosafrole	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Hexachlorocyclopentadiene	ND	*+	50		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,4,6-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,4,5-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2-Chloronaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
2-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
1,4-Naphthoquinone	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Dimethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
1,3-Dinitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,6-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Acenaphthylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
3-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Acenaphthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,4-Dinitrophenol	ND		30		ug/L		11/19/24 11:40	11/20/24 11:27	1
4-Nitrophenol	ND		25		ug/L		11/19/24 11:40	11/20/24 11:27	1
Dibenzofuran	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,4-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Pentachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
1-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
2-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Diethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Fluorene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
4-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
N-Nitrosodiphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Diphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
1,3,5-Trinitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Diallate	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
Phenacetin	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
4-Bromophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Hexachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
4-Aminobiphenyl	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Pronamide	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
Pentachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachloronitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Phenanthrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Methyl parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Di-n-butyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Methapyrilene	ND	*-	50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Isodrin	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Butyl benzyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Famphur	ND		100		ug/L		11/19/24 11:40	11/20/24 11:27	1
2-Acetylaminofluorene	ND		100		ug/L		11/19/24 11:40	11/20/24 11:27	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
3,3'-Dichlorobenzidine	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
Benz(a)anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Chrysene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Di-n-octyl phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Benzo(b)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
Benzo(k)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
Benzo(a)pyrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
3-Methylcholanthrene	ND		20		ug/L		11/19/24 11:40	11/20/24 11:27	1
Dibenz(a,h)anthracene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Benzo(ghi)perylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:27	1
bis(2-Chloroethyl) ether	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
o-Toluidine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Chlorobenzilate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1
Parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 11:27	1
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		11/19/24 11:40	11/20/24 11:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
p-phenylenediamine TIC	*ND*		*ug/L*			*106-50-3*	*11/19/24 11:40*	*11/20/24 11:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*41*		*13 - 120*	*11/19/24 11:40*	*11/20/24 11:27*	*1*
Phenol-d5	*26*		*10 - 120*	*11/19/24 11:40*	*11/20/24 11:27*	*1*
Nitrobenzene-d5	*65*		*34 - 120*	*11/19/24 11:40*	*11/20/24 11:27*	*1*
2-Fluorobiphenyl	*62*		*28 - 120*	*11/19/24 11:40*	*11/20/24 11:27*	*1*
2,4,6-Tribromophenol	*78*		*22 - 140*	*11/19/24 11:40*	*11/20/24 11:27*	*1*
Terphenyl-d14	*92*		*55 - 142*	*11/19/24 11:40*	*11/20/24 11:27*	*1*

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
5-Nitro-o-toluidine	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosomethylethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosodimethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosodiethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Ethyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Phenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2-Chlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Benzyl alcohol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Acetophenone	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosopyrrolidine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Hexachloroethane	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Nitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosopiperidine	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
Isophorone	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,4-Dimethylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2-Nitrophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,4-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
4-Chloroaniline	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,6-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Hexachloropropene	ND		100		ug/L		11/19/24 11:40	11/20/24 11:49	1
Hexachlorobutadiene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
4-Chloro-3-methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Safrole	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
2-Methylnaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Isosafrole	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Hexachlorocyclopentadiene	ND	*+	50		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,4,6-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,4,5-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2-Chloronaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
2-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
1,4-Naphthoquinone	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Dimethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
1,3-Dinitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,6-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Acenaphthylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
3-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Acenaphthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,4-Dinitrophenol	ND		30		ug/L		11/19/24 11:40	11/20/24 11:49	1
4-Nitrophenol	ND		25		ug/L		11/19/24 11:40	11/20/24 11:49	1
Dibenzofuran	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,4-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Pentachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
1-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Diethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Fluorene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
4-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
N-Nitrosodiphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Diphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
1,3,5-Trinitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Diallate	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
Phenacetin	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
4-Bromophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Hexachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
4-Aminobiphenyl	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Pronamide	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
Pentachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Pentachloronitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Phenanthrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Methyl parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Di-n-butyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Methapyrilene	ND	*-	50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Isodrin	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Butyl benzyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Famphur	ND		100		ug/L		11/19/24 11:40	11/20/24 11:49	1
2-Acetylaminofluorene	ND		100		ug/L		11/19/24 11:40	11/20/24 11:49	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
3,3'-Dichlorobenzidine	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
Benz(a)anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Chrysene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Di-n-octyl phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Benzo(b)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
Benzo(k)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
Benzo(a)pyrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
3-Methylcholanthrene	ND		20		ug/L		11/19/24 11:40	11/20/24 11:49	1
Dibenz(a,h)anthracene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Benzo(ghi)perylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 11:49	1
bis(2-Chloroethyl) ether	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
o-Toluidine	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Chlorobenzilate	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1
Parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 11:49	1
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		11/19/24 11:40	11/20/24 11:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
p-phenylenediamine TIC	*ND*		*ug/L*			*106-50-3*	*11/19/24 11:40*	*11/20/24 11:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		13 - 120	11/19/24 11:40	11/20/24 11:49	1
Phenol-d5	23		10 - 120	11/19/24 11:40	11/20/24 11:49	1
Nitrobenzene-d5	56		34 - 120	11/19/24 11:40	11/20/24 11:49	1
2-Fluorobiphenyl	57		28 - 120	11/19/24 11:40	11/20/24 11:49	1
2,4,6-Tribromophenol	72		22 - 140	11/19/24 11:40	11/20/24 11:49	1
Terphenyl-d14	89		55 - 142	11/19/24 11:40	11/20/24 11:49	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
4,4'-DDE	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
4,4'-DDT	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Aldrin	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
alpha-BHC	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
cis-Chlordane	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
beta-BHC	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
delta-BHC	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Dieldrin	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Endosulfan I	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Endosulfan II	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Endosulfan sulfate	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Endrin	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Endrin aldehyde	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
gamma-BHC (Lindane)	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
trans-Chlordane	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Heptachlor	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Heptachlor epoxide	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:13	1
Kepone	ND		0.97		ug/L		11/15/24 15:55	11/18/24 19:13	1
Methoxychlor	ND		0.097		ug/L		11/15/24 15:55	11/18/24 19:13	1
Toxaphene	ND		1.9		ug/L		11/15/24 15:55	11/18/24 19:13	1
Technical Chlordane	ND		0.48		ug/L		11/15/24 15:55	11/18/24 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 157	11/15/24 15:55	11/18/24 19:13	1
Tetrachloro-m-xylene	70		12 - 129	11/15/24 15:55	11/18/24 19:13	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
4,4'-DDE	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
4,4'-DDT	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Aldrin	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
alpha-BHC	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
cis-Chlordane	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
beta-BHC	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
delta-BHC	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Dieldrin	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Endosulfan II	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Endosulfan sulfate	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Endrin	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Endrin aldehyde	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
gamma-BHC (Lindane)	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
trans-Chlordane	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Heptachlor	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Heptachlor epoxide	ND		0.048		ug/L		11/15/24 15:55	11/18/24 19:30	1
Kepone	ND		0.96		ug/L		11/15/24 15:55	11/18/24 19:30	1
Methoxychlor	ND		0.096		ug/L		11/15/24 15:55	11/18/24 19:30	1
Toxaphene	ND		1.9		ug/L		11/15/24 15:55	11/18/24 19:30	1
Technical Chlordane	ND		0.48		ug/L		11/15/24 15:55	11/18/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*10 - 157*	*11/15/24 15:55*	*11/18/24 19:30*	*1*
Tetrachloro-m-xylene	*80*		*12 - 129*	*11/15/24 15:55*	*11/18/24 19:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.97		ug/L		11/15/24 15:55	11/18/24 22:01	1
Aroclor 1221	ND		0.97		ug/L		11/15/24 15:55	11/18/24 22:01	1
Aroclor 1232	ND		0.97		ug/L		11/15/24 15:55	11/18/24 22:01	1
Aroclor 1242	ND		0.97		ug/L		11/15/24 15:55	11/18/24 22:01	1
Aroclor 1248	ND		0.97		ug/L		11/15/24 15:55	11/18/24 22:01	1
Aroclor 1254	ND		0.97		ug/L		11/15/24 15:55	11/18/24 22:01	1
Aroclor 1260	ND	*1	0.97		ug/L		11/15/24 15:55	11/18/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*30 - 136*	*11/15/24 15:55*	*11/18/24 22:01*	*1*
Tetrachloro-m-xylene	*77*		*25 - 120*	*11/15/24 15:55*	*11/18/24 22:01*	*1*

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.96		ug/L		11/15/24 15:55	11/18/24 22:17	1
Aroclor 1221	ND		0.96		ug/L		11/15/24 15:55	11/18/24 22:17	1
Aroclor 1232	ND		0.96		ug/L		11/15/24 15:55	11/18/24 22:17	1
Aroclor 1242	ND		0.96		ug/L		11/15/24 15:55	11/18/24 22:17	1
Aroclor 1248	ND		0.96		ug/L		11/15/24 15:55	11/18/24 22:17	1
Aroclor 1254	ND		0.96		ug/L		11/15/24 15:55	11/18/24 22:17	1
Aroclor 1260	ND	*1	0.96		ug/L		11/15/24 15:55	11/18/24 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*30 - 136*	*11/15/24 15:55*	*11/18/24 22:17*	*1*
Tetrachloro-m-xylene	*98*		*25 - 120*	*11/15/24 15:55*	*11/18/24 22:17*	*1*

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		11/19/24 11:36	11/20/24 14:49	1
Disulfoton	ND		0.99		ug/L		11/19/24 11:36	11/20/24 14:49	1
Phorate	ND		1.2		ug/L		11/19/24 11:36	11/20/24 14:49	1
Thionazin	ND		0.99		ug/L		11/19/24 11:36	11/20/24 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*76*		*27 - 120*	*11/19/24 11:36*	*11/20/24 14:49*	*1*
Triphenylphosphate	*102*		*42 - 120*	*11/19/24 11:36*	*11/20/24 14:49*	*1*

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		11/19/24 11:36	11/20/24 15:27	1
Disulfoton	ND		1.0		ug/L		11/19/24 11:36	11/20/24 15:27	1
Phorate	ND		1.2		ug/L		11/19/24 11:36	11/20/24 15:27	1
Thionazin	ND		1.0		ug/L		11/19/24 11:36	11/20/24 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*83*		*27 - 120*	*11/19/24 11:36*	*11/20/24 15:27*	*1*
Triphenylphosphate	*111*		*42 - 120*	*11/19/24 11:36*	*11/20/24 15:27*	*1*

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		5.2		ug/L		11/18/24 15:06	11/19/24 13:23	5
2,4-D	ND		21		ug/L		11/18/24 15:06	11/19/24 13:23	5
Dinoseb	ND	*- *1	5.2		ug/L		11/18/24 15:06	11/19/24 13:23	5
2,4,5-TP (Silvex)	ND		5.2		ug/L		11/18/24 15:06	11/19/24 13:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*100*		*34 - 142*	*11/18/24 15:06*	*11/19/24 13:23*	*5*
2,4-Dichlorophenylacetic acid	*88*		*34 - 142*	*11/18/24 15:06*	*11/19/24 13:23*	*5*

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		4.8		ug/L		11/18/24 15:06	11/19/24 13:51	5
2,4-D	ND		19		ug/L		11/18/24 15:06	11/19/24 13:51	5
Dinoseb	ND	*- *1	4.8		ug/L		11/18/24 15:06	11/19/24 13:51	5
2,4,5-TP (Silvex)	ND		4.8		ug/L		11/18/24 15:06	11/19/24 13:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*88*		*34 - 142*	*11/18/24 15:06*	*11/19/24 13:51*	*5*
2,4-Dichlorophenylacetic acid	*82*		*34 - 142*	*11/18/24 15:06*	*11/19/24 13:51*	*5*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		11/19/24 14:37	11/21/24 00:52	1
Tin	ND		100		ug/L		11/19/24 14:37	11/21/24 00:52	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		11/19/24 14:37	11/21/24 00:56	1
Tin	ND		100		ug/L		11/19/24 14:37	11/21/24 00:56	1

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/27/24 09:10	11/27/24 13:57	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/27/24 09:10	11/27/24 14:00	1

General Chemistry

Client Sample ID: MW-19C
Date Collected: 11/13/24 11:05
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010		mg/L			11/20/24 14:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide (SW846 9034)	ND		4.0		mg/L		11/20/24 14:49	11/20/24 16:18	1

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	0.010		mg/L			11/20/24 14:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide (SW846 9034)	ND		4.0		mg/L		11/20/24 14:49	11/20/24 16:18	1

Surrogate Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Job ID: 280-199595-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
280-199595-1	TRIP BLANK	100	99	104	102
280-199595-2	MW-19C	95	92	99	91
280-199595-3	MW-32	97	92	103	98
480-225549-A-4 MS	Matrix Spike	100	97	106	
480-225549-A-4 MSD	Matrix Spike Duplicate	104	96	105	
LCS 480-732871/6	Lab Control Sample	100	97	99	101
MB 480-732871/8	Method Blank	95	93	103	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(13-120)	(10-120)	(34-120)	(28-120)	(22-140)	(55-142)
280-199595-2	MW-19C	41	26	65	62	78	92
280-199595-3	MW-32	38	23	56	57	72	89
LCS 280-675636/2-A	Lab Control Sample	44	31	79	75	98	97
LCSD 280-675636/3-A	Lab Control Sample Dup	38	26	77	69	95	96
MB 280-675636/1-A	Method Blank	40	25	71	57	73	98

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
280-199595-2	MW-19C	84	70
280-199595-3	MW-32	75	80
LCS 280-675319/2-A	Lab Control Sample	93	83
LCS 280-675319/6-A	Lab Control Sample	101	69
LCS 280-675319/8-A	Lab Control Sample	85	54
LCSD 280-675319/3-A	Lab Control Sample Dup	90	85
LCSD 280-675319/7-A	Lab Control Sample Dup	103	64
LCSD 280-675319/9-A	Lab Control Sample Dup	102	69
MB 280-675319/1-A	Method Blank	101	75

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (30-136)	TCX1 (25-120)
280-199595-2	MW-19C	96	77
280-199595-3	MW-32	91	98
LCS 280-675319/4-A	Lab Control Sample	102	80
LCSD 280-675319/5-A	Lab Control Sample Dup	69	67
MB 280-675319/1-A	Method Blank	102	82

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	CMF1 (27-120)	TPP1 (42-120)
280-199595-2	MW-19C	76	102
280-199595-3	MW-32	83	111
LCS 280-675621/2-A	Lab Control Sample	83	111
LCSD 280-675621/3-A	Lab Control Sample Dup	85	114
MB 280-675621/1-A	Method Blank	83	96

Surrogate Legend

CMF = Chlormefos

TPP = Triphenylphosphate

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (34-142)	DCPAA2 (34-142)
280-199595-2	MW-19C	100	88
280-199595-3	MW-32	88	82
LCS 410-576393/2-A	Lab Control Sample	87	77
LCSD 410-576393/3-A	Lab Control Sample Dup	95	88
MB 410-576393/1-A	Method Blank	68	57

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 480-732871/8
Matrix: Water
Analysis Batch: 732871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 11:50	1
Acetonitrile	ND		15		ug/L			11/19/24 11:50	1
Acrolein	ND		20		ug/L			11/19/24 11:50	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 11:50	1
Benzene	ND		1.0		ug/L			11/19/24 11:50	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Bromoform	ND		1.0		ug/L			11/19/24 11:50	1
Bromomethane	ND		1.0		ug/L			11/19/24 11:50	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 11:50	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 11:50	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 11:50	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
Chloroprene	ND		1.0		ug/L			11/19/24 11:50	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Chloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Chloroform	ND		1.0		ug/L			11/19/24 11:50	1
Chloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Allyl chloride	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 11:50	1
Dibromomethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 11:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 11:50	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 11:50	1
2-Hexanone	ND		5.0		ug/L			11/19/24 11:50	1
Iodomethane	ND		1.0		ug/L			11/19/24 11:50	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 11:50	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 11:50	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 11:50	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 11:50	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 11:50	1
Naphthalene	ND		1.0		ug/L			11/19/24 11:50	1
Propionitrile	ND		10		ug/L			11/19/24 11:50	1

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

Lab Sample ID: MB 480-732871/8
Matrix: Water
Analysis Batch: 732871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			11/19/24 11:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 11:50	1
Toluene	ND		1.0		ug/L			11/19/24 11:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Trichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 11:50	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 11:50	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 11:50	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/19/24 11:50*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/19/24 11:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*11/19/24 11:50*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*11/19/24 11:50*	*1*

Lab Sample ID: LCS 480-732871/6
Matrix: Water
Analysis Batch: 732871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	125	107		ug/L		86	56 - 142
Acrolein	125	115		ug/L		92	52 - 143
Acrylonitrile	250	233		ug/L		93	63 - 125
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromochloromethane	25.0	25.3		ug/L		101	72 - 130
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	25.1		ug/L		100	61 - 132
Bromomethane	25.0	23.6		ug/L		94	55 - 144
2-Butanone (MEK)	125	113		ug/L		91	57 - 140
Carbon disulfide	25.0	22.8		ug/L		91	59 - 134
Carbon tetrachloride	25.0	22.1		ug/L		88	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Dibromochloromethane	25.0	22.6		ug/L		90	75 - 125
Chloroethane	25.0	23.0		ug/L		92	69 - 136
Chloroform	25.0	22.4		ug/L		89	73 - 127
Chloromethane	25.0	18.3		ug/L		73	68 - 124
Allyl chloride	25.0	23.7		ug/L		95	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	56 - 134
Dibromomethane	25.0	24.4		ug/L		98	76 - 127
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	80 - 124
1,3-Dichlorobenzene	25.0	21.6		ug/L		87	77 - 120

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

Lab Sample ID: LCS 480-732871/6
Matrix: Water
Analysis Batch: 732871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	25.0	21.5		ug/L		86	80 - 120
trans-1,4-Dichloro-2-butene	25.0	23.2		ug/L		93	41 - 131
Dichlorodifluoromethane	25.0	19.2		ug/L		77	59 - 135
1,1-Dichloroethane	25.0	23.8		ug/L		95	77 - 120
1,2-Dichloroethane	25.0	25.5		ug/L		102	75 - 120
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
1,1-Dichloroethene	25.0	23.1		ug/L		92	66 - 127
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120
1,3-Dichloropropane	25.0	22.7		ug/L		91	75 - 120
2,2-Dichloropropane	25.0	24.7		ug/L		99	63 - 136
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
trans-1,3-Dichloropropene	25.0	24.5		ug/L		98	80 - 120
1,1-Dichloropropene	25.0	22.8		ug/L		91	72 - 122
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Ethyl methacrylate	25.0	23.3		ug/L		93	74 - 120
2-Hexanone	125	112		ug/L		89	65 - 127
Iodomethane	25.0	23.5		ug/L		94	78 - 123
Isobutyl alcohol	625	518		ug/L		83	51 - 150
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124
Methyl isobutyl ketone (MIBK)	125	119		ug/L		95	71 - 125
Naphthalene	25.0	24.0		ug/L		96	66 - 125
Styrene	25.0	23.7		ug/L		95	80 - 120
1,1,1,2-Tetrachloroethane	25.0	22.0		ug/L		88	80 - 120
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
Tetrachloroethene	25.0	22.1		ug/L		88	74 - 122
Toluene	25.0	22.9		ug/L		92	80 - 122
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	79 - 122
1,1,1-Trichloroethane	25.0	23.1		ug/L		92	73 - 126
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	76 - 122
Trichloroethene	25.0	23.1		ug/L		93	74 - 123
Trichlorofluoromethane	25.0	26.7		ug/L		107	62 - 150
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	68 - 122
Vinyl acetate	50.0	51.0		ug/L		102	50 - 144
Vinyl chloride	25.0	22.6		ug/L		91	65 - 133
Xylenes (total)	50.0	47.4		ug/L		95	76 - 122
1,2-Dibromoethane	25.0	22.9		ug/L		92	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

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

Lab Sample ID: 480-225549-A-4 MS
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	7000		12500	18100		ug/L		89	56 - 142
Benzene	ND		2500	2370		ug/L		95	71 - 124
Bromodichloromethane	ND		2500	2470		ug/L		99	80 - 122
Bromoform	ND		2500	2420		ug/L		97	61 - 132
Bromomethane	ND		2500	2020		ug/L		81	55 - 144
2-Butanone (MEK)	5200		12500	17400		ug/L		97	57 - 140
Carbon disulfide	ND		2500	2160		ug/L		86	59 - 134
Carbon tetrachloride	ND		2500	2170		ug/L		87	72 - 134
Chlorobenzene	ND		2500	2420		ug/L		97	80 - 120
Dibromochloromethane	ND		2500	2360		ug/L		95	75 - 125
Chloroethane	ND		2500	2040		ug/L		82	69 - 136
Chloroform	ND		2500	2220		ug/L		89	73 - 127
Chloromethane	ND		2500	1910		ug/L		76	68 - 124
1,1-Dichloroethane	ND		2500	2440		ug/L		96	77 - 120
1,2-Dichloroethane	ND		2500	2590		ug/L		101	75 - 120
cis-1,2-Dichloroethene	260		2500	2650		ug/L		96	74 - 124
trans-1,2-Dichloroethene	ND		2500	2250		ug/L		90	73 - 127
1,1-Dichloroethene	ND		2500	2360		ug/L		94	66 - 127
1,2-Dichloropropane	ND		2500	2320		ug/L		93	76 - 120
cis-1,3-Dichloropropene	ND		2500	2480		ug/L		99	74 - 124
trans-1,3-Dichloropropene	ND		2500	2380		ug/L		95	80 - 120
Ethylbenzene	ND		2500	2430		ug/L		97	77 - 123
2-Hexanone	ND		12500	12100		ug/L		97	65 - 127
Methylene Chloride	4800		2500	7010		ug/L		88	75 - 124
Methyl isobutyl ketone (MIBK)	ND		12500	12200		ug/L		94	71 - 125
Styrene	ND		2500	2450		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	ND		2500	2160		ug/L		86	76 - 120
Tetrachloroethene	630		2500	2870		ug/L		90	74 - 122
Toluene	220		2500	2650		ug/L		97	80 - 122
1,1,1-Trichloroethane	ND		2500	2260		ug/L		90	73 - 126
1,1,2-Trichloroethane	ND		2500	2410		ug/L		96	76 - 122
Trichloroethene	ND		2500	2470		ug/L		97	74 - 123
Vinyl acetate	ND	F1	5000	ND	F1	ug/L		6	50 - 144
Vinyl chloride	150		2500	2540		ug/L		96	65 - 133
Xylenes (total)	ND		5000	5060		ug/L		101	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*

Lab Sample ID: 480-225549-A-4 MSD
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	7000		12500	17800		ug/L		87	56 - 142	2	15
Benzene	ND		2500	2390		ug/L		95	71 - 124	1	13

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

Lab Sample ID: 480-225549-A-4 MSD
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromodichloromethane	ND		2500	2450		ug/L		98	80 - 122	1	15
Bromoform	ND		2500	2300		ug/L		92	61 - 132	5	15
Bromomethane	ND		2500	2070		ug/L		83	55 - 144	2	15
2-Butanone (MEK)	5200		12500	16900		ug/L		94	57 - 140	3	20
Carbon disulfide	ND		2500	2200		ug/L		88	59 - 134	2	15
Carbon tetrachloride	ND		2500	2140		ug/L		86	72 - 134	1	15
Chlorobenzene	ND		2500	2330		ug/L		93	80 - 120	4	25
Dibromochloromethane	ND		2500	2280		ug/L		91	75 - 125	3	15
Chloroethane	ND		2500	1990		ug/L		79	69 - 136	3	15
Chloroform	ND		2500	2260		ug/L		90	73 - 127	2	20
Chloromethane	ND		2500	1750		ug/L		70	68 - 124	9	15
1,1-Dichloroethane	ND		2500	2420		ug/L		95	77 - 120	1	20
1,2-Dichloroethane	ND		2500	2560		ug/L		100	75 - 120	1	20
cis-1,2-Dichloroethene	260		2500	2590		ug/L		93	74 - 124	3	15
trans-1,2-Dichloroethene	ND		2500	2370		ug/L		95	73 - 127	5	20
1,1-Dichloroethene	ND		2500	2350		ug/L		94	66 - 127	0	16
1,2-Dichloropropane	ND		2500	2230		ug/L		89	76 - 120	4	20
cis-1,3-Dichloropropene	ND		2500	2370		ug/L		95	74 - 124	5	15
trans-1,3-Dichloropropene	ND		2500	2230		ug/L		89	80 - 120	6	15
Ethylbenzene	ND		2500	2330		ug/L		93	77 - 123	5	15
2-Hexanone	ND		12500	11200		ug/L		90	65 - 127	8	15
Methylene Chloride	4800		2500	6940		ug/L		85	75 - 124	1	15
Methyl isobutyl ketone (MIBK)	ND		12500	11600		ug/L		89	71 - 125	6	35
Styrene	ND		2500	2310		ug/L		93	80 - 120	6	20
1,1,2,2-Tetrachloroethane	ND		2500	2300		ug/L		92	76 - 120	6	15
Tetrachloroethene	630		2500	2670		ug/L		82	74 - 122	7	20
Toluene	220		2500	2550		ug/L		93	80 - 122	4	15
1,1,1-Trichloroethane	ND		2500	2230		ug/L		89	73 - 126	1	15
1,1,2-Trichloroethane	ND		2500	2470		ug/L		99	76 - 122	2	15
Trichloroethene	ND		2500	2430		ug/L		95	74 - 123	2	16
Vinyl acetate	ND	F1	5000	ND	F1	ug/L		5	50 - 144	22	23
Vinyl chloride	150		2500	2490		ug/L		94	65 - 133	2	15
Xylenes (total)	ND		5000	4700		ug/L		94	76 - 122	7	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*

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

Lab Sample ID: MB 280-675636/1-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
5-Nitro-o-toluidine	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosomethylethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1

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

Lab Sample ID: MB 280-675636/1-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Methyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodiethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Ethyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Phenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Chlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzyl alcohol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Acetophenone	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosopyrrolidine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachloroethane	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Nitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosopiperidine	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Isophorone	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dimethylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Nitrophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Chloroaniline	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,6-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachloropropene	ND		100		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachlorobutadiene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Chloro-3-methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Safrole	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Methylnaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Isosafrole	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachlorocyclopentadiene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4,6-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4,5-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Chloronaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,4-Naphthoquinone	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Dimethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,3-Dinitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,6-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Acenaphthylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
3-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Acenaphthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dinitrophenol	ND		30		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Nitrophenol	ND		25		ug/L		11/19/24 11:40	11/20/24 10:00	1
Dibenzofuran	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pentachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
1-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1

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

Lab Sample ID: MB 280-675636/1-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Diethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Fluorene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodiphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Diphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,3,5-Trinitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Diallate	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Phenacetin	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Bromophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Aminobiphenyl	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pronamide	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pentachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pentachloronitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Phenanthrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Methyl parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Di-n-butyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Methapyrilene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Isodrin	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Butyl benzyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Famphur	ND		100		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Acetylaminofluorene	ND		100		ug/L		11/19/24 11:40	11/20/24 10:00	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
3,3'-Dichlorobenzidine	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benz(a)anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Chrysene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Di-n-octyl phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(b)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(k)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(a)pyrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
3-Methylcholanthrene	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Dibenz(a,h)anthracene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(ghi)perylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
bis(2-Chloroethyl) ether	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
o-Toluidine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Chlorobenzilate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1

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

Lab Sample ID: MB 280-675636/1-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675636

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	40		13 - 120	11/19/24 11:40	11/20/24 10:00	1
Phenol-d5	25		10 - 120	11/19/24 11:40	11/20/24 10:00	1
Nitrobenzene-d5	71		34 - 120	11/19/24 11:40	11/20/24 10:00	1
2-Fluorobiphenyl	57		28 - 120	11/19/24 11:40	11/20/24 10:00	1
2,4,6-Tribromophenol	73		22 - 140	11/19/24 11:40	11/20/24 10:00	1
Terphenyl-d14	98		55 - 142	11/19/24 11:40	11/20/24 10:00	1

Lab Sample ID: LCS 280-675636/2-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Dimethylaminoazobenzene	80.0	81.4		ug/L		102	39 - 155
5-Nitro-o-toluidine	80.0	77.0		ug/L		96	45 - 156
N-Nitrosomethylethylamine	80.0	55.4		ug/L		69	16 - 137
N-Nitrosodimethylamine	80.0	40.6		ug/L		51	21 - 120
Methyl methanesulfonate	80.0	47.7		ug/L		60	15 - 120
N-Nitrosodiethylamine	80.0	63.7		ug/L		80	24 - 129
Ethyl methanesulfonate	80.0	64.6		ug/L		81	27 - 134
Phenol	80.0	28.5		ug/L		36	28 - 120
2-Chlorophenol	80.0	62.3		ug/L		78	35 - 120
Benzyl alcohol	80.0	59.3		ug/L		74	35 - 121
2-Methylphenol	80.0	60.2		ug/L		75	49 - 120
3-Methylphenol & 4-Methylphenol	80.0	62.6		ug/L		78	54 - 120
Acetophenone	80.0	71.2		ug/L		89	40 - 120
N-Nitrosodi-n-propylamine	80.0	73.9		ug/L		92	44 - 120
N-Nitrosopyrrolidine	80.0	67.4		ug/L		84	44 - 125
Hexachloroethane	80.0	38.0		ug/L		48	10 - 120
Nitrobenzene	80.0	65.0		ug/L		81	37 - 120
N-Nitrosopiperidine	80.0	70.2		ug/L		88	53 - 120
Isophorone	80.0	71.3		ug/L		89	51 - 120
2,4-Dimethylphenol	80.0	70.0		ug/L		87	49 - 120
2-Nitrophenol	80.0	67.0		ug/L		84	31 - 120
O,O,O-Triethyl phosphorothioate	80.0	68.4		ug/L		85	54 - 123
Bis(2-chloroethoxy)methane	80.0	70.6		ug/L		88	35 - 127
2,4-Dichlorophenol	80.0	71.1		ug/L		89	42 - 120
4-Chloroaniline	80.0	63.2		ug/L		79	33 - 120
2,6-Dichlorophenol	80.0	70.2		ug/L		88	44 - 120
Hexachloropropene	80.0	42.6	J	ug/L		53	23 - 120
Hexachlorobutadiene	80.0	40.2		ug/L		50	10 - 120
N-Nitrosodi-n-butylamine	80.0	80.8		ug/L		101	43 - 157
4-Chloro-3-methylphenol	80.0	75.8		ug/L		95	51 - 120
Safrole	80.0	66.0		ug/L		82	58 - 120
2-Methylnaphthalene	80.0	58.9		ug/L		74	33 - 120
Isosafrole	80.0	68.6		ug/L		86	60 - 120
1,2,4,5-Tetrachlorobenzene	80.0	57.3		ug/L		72	32 - 120
Hexachlorocyclopentadiene	160	211	E *+	ug/L		132	10 - 120
2,4,6-Trichlorophenol	80.0	76.8		ug/L		96	44 - 120

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

Lab Sample ID: LCS 280-675636/2-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	80.0	78.0		ug/L		97	52 - 120
2-Chloronaphthalene	80.0	67.3		ug/L		84	43 - 120
2-Nitroaniline	80.0	79.5		ug/L		99	51 - 120
1,4-Naphthoquinone	80.0	92.6		ug/L		116	59 - 152
Dimethyl phthalate	80.0	76.8		ug/L		96	57 - 121
1,3-Dinitrobenzene	80.0	80.4		ug/L		101	50 - 124
2,6-Dinitrotoluene	80.0	77.7		ug/L		97	33 - 124
Acenaphthylene	80.0	69.3		ug/L		87	50 - 120
3-Nitroaniline	80.0	75.5		ug/L		94	46 - 121
Acenaphthene	80.0	68.8		ug/L		86	48 - 120
2,4-Dinitrophenol	160	159		ug/L		99	11 - 131
4-Nitrophenol	160	72.5		ug/L		45	31 - 120
Dibenzofuran	80.0	70.9		ug/L		89	51 - 120
2,4-Dinitrotoluene	80.0	83.2		ug/L		104	52 - 124
Pentachlorobenzene	80.0	59.4		ug/L		74	43 - 139
1-Naphthylamine	80.0	65.0		ug/L		81	33 - 130
2,3,4,6-Tetrachlorophenol	80.0	81.2		ug/L		101	55 - 136
2-Naphthylamine	80.0	68.4		ug/L		86	36 - 121
Diethyl phthalate	80.0	77.5		ug/L		97	56 - 123
4-Chlorophenyl phenyl ether	80.0	70.7		ug/L		88	52 - 120
Fluorene	80.0	72.0		ug/L		90	53 - 120
4-Nitroaniline	80.0	85.5		ug/L		107	49 - 122
4,6-Dinitro-2-methylphenol	160	163		ug/L		102	37 - 133
N-Nitrosodiphenylamine	80.0	75.9		ug/L		95	54 - 120
Diphenylamine	68.0	64.9		ug/L		95	52 - 120
1,3,5-Trinitrobenzene	80.0	77.8		ug/L		97	33 - 199
Diallate	80.0	74.7		ug/L		93	46 - 145
Phenacetin	80.0	77.5		ug/L		97	54 - 129
4-Bromophenyl phenyl ether	80.0	76.4		ug/L		95	57 - 120
Hexachlorobenzene	80.0	76.3		ug/L		95	56 - 120
4-Aminobiphenyl	80.0	58.1		ug/L		73	19 - 130
Pronamide	80.0	79.2		ug/L		99	53 - 136
Pentachlorophenol	160	156		ug/L		98	42 - 126
Pentachloronitrobenzene	80.0	82.7		ug/L		103	68 - 146
Phenanthrene	80.0	75.3		ug/L		94	56 - 120
Anthracene	80.0	76.5		ug/L		96	56 - 121
Methyl parathion	80.0	87.1		ug/L		109	54 - 151
Di-n-butyl phthalate	80.0	83.8		ug/L		105	52 - 132
Methapyrilene	80.0	19.2	J	ug/L		24	10 - 120
Isodrin	80.0	72.9		ug/L		91	57 - 125
Fluoranthene	80.0	79.9		ug/L		100	54 - 122
Pyrene	80.0	78.6		ug/L		98	54 - 126
Butyl benzyl phthalate	80.0	83.7		ug/L		105	49 - 141
Famphur	80.0	82.1	J	ug/L		103	49 - 150
2-Acetylaminofluorene	80.0	74.7	J	ug/L		93	40 - 152
Bis(2-ethylhexyl) phthalate	80.0	85.1		ug/L		106	40 - 134
3,3'-Dichlorobenzidine	160	164		ug/L		103	42 - 147
Benz(a)anthracene	80.0	81.1		ug/L		101	57 - 127
Chrysene	80.0	76.0		ug/L		95	54 - 123

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

Lab Sample ID: LCS 280-675636/2-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675636

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Di-n-octyl phthalate			80.0	82.6		ug/L		103	33 - 141		
Benzo(b)fluoranthene			80.0	88.2		ug/L		110	44 - 134		
Benzo(k)fluoranthene			80.0	76.6		ug/L		96	58 - 127		
7,12-Dimethylbenz(a)anthracene			80.0	79.4		ug/L		99	46 - 124		
Benzo(a)pyrene			80.0	82.0		ug/L		103	50 - 120		
3-Methylcholanthrene			80.0	68.1		ug/L		85	51 - 120		
Dibenz(a,h)anthracene			80.0	82.4		ug/L		103	48 - 125		
Indeno(1,2,3-cd)pyrene			80.0	84.0		ug/L		105	38 - 120		
Benzo(ghi)perylene			80.0	81.7		ug/L		102	52 - 120		
bis(2-Chloroethyl) ether			80.0	66.6		ug/L		83	30 - 120		
o-Toluidine			80.0	59.9		ug/L		75	25 - 129		
Chlorobenzilate			80.0	80.6		ug/L		101	55 - 165		
Parathion			80.0	80.1		ug/L		100	60 - 128		
2,2'-oxybis(1-chloropropane)			80.0	64.7		ug/L		81	32 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*44*		*13 - 120*
Phenol-d5	*31*		*10 - 120*
Nitrobenzene-d5	*79*		*34 - 120*
2-Fluorobiphenyl	*75*		*28 - 120*
2,4,6-Tribromophenol	*98*		*22 - 140*
Terphenyl-d14	*97*		*55 - 142*

Lab Sample ID: LCSD 280-675636/3-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675636

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Dimethylaminoazobenzene			80.0	79.6		ug/L		100	39 - 155	2	37
5-Nitro-o-toluidine			80.0	74.8		ug/L		94	45 - 156	3	43
N-Nitrosomethylethylamine			80.0	48.0		ug/L		60	16 - 137	14	65
N-Nitrosodimethylamine			80.0	32.5		ug/L		41	21 - 120	22	63
Methyl methanesulfonate			80.0	41.1		ug/L		51	15 - 120	15	48
N-Nitrosodiethylamine			80.0	56.5		ug/L		71	24 - 129	12	58
Ethyl methanesulfonate			80.0	56.5		ug/L		71	27 - 134	13	55
Phenol			80.0	23.7		ug/L		30	28 - 120	18	40
2-Chlorophenol			80.0	54.5		ug/L		68	35 - 120	13	47
Benzyl alcohol			80.0	51.4		ug/L		64	35 - 121	14	62
2-Methylphenol			80.0	51.2		ug/L		64	49 - 120	16	46
3-Methylphenol & 4-Methylphenol			80.0	53.5		ug/L		67	54 - 120	16	49
Acetophenone			80.0	63.0		ug/L		79	40 - 120	12	47
N-Nitrosodi-n-propylamine			80.0	65.2		ug/L		82	44 - 120	12	47
N-Nitrosopyrrolidine			80.0	58.9		ug/L		74	44 - 125	14	48
Hexachloroethane			80.0	45.6		ug/L		57	10 - 120	18	90
Nitrobenzene			80.0	61.1		ug/L		76	37 - 120	6	50
N-Nitrosopiperidine			80.0	65.1		ug/L		81	53 - 120	8	46
Isophorone			80.0	65.8		ug/L		82	51 - 120	8	47
2,4-Dimethylphenol			80.0	61.9		ug/L		77	49 - 120	12	48

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

Lab Sample ID: LCSD 280-675636/3-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675636

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Nitrophenol			80.0	63.3		ug/L		79	31 - 120	6	51
O,O,O-Triethyl phosphorothioate			80.0	62.3		ug/L		78	54 - 123	9	47
Bis(2-chloroethoxy)methane			80.0	64.9		ug/L		81	35 - 127	8	48
2,4-Dichlorophenol			80.0	64.9		ug/L		81	42 - 120	9	47
4-Chloroaniline			80.0	57.2		ug/L		72	33 - 120	10	78
2,6-Dichlorophenol			80.0	63.6		ug/L		80	44 - 120	10	47
Hexachloropropene			80.0	40.7	J	ug/L		51	23 - 120	4	55
Hexachlorobutadiene			80.0	47.2		ug/L		59	10 - 120	16	56
N-Nitrosodi-n-butylamine			80.0	76.1		ug/L		95	43 - 157	6	46
4-Chloro-3-methylphenol			80.0	73.4		ug/L		92	51 - 120	3	42
Safrole			80.0	62.9		ug/L		79	58 - 120	5	46
2-Methylnaphthalene			80.0	59.5		ug/L		74	33 - 120	1	48
Isosafrole			80.0	61.4		ug/L		77	60 - 120	11	44
1,2,4,5-Tetrachlorobenzene			80.0	53.4		ug/L		67	32 - 120	7	48
Hexachlorocyclopentadiene			160	220	*+ E	ug/L		137	10 - 120	4	96
2,4,6-Trichlorophenol			80.0	70.7		ug/L		88	44 - 120	8	44
2,4,5-Trichlorophenol			80.0	70.5		ug/L		88	52 - 120	10	40
2-Chloronaphthalene			80.0	62.3		ug/L		78	43 - 120	8	43
2-Nitroaniline			80.0	74.5		ug/L		93	51 - 120	6	41
1,4-Naphthoquinone			80.0	87.3		ug/L		109	59 - 152	6	46
Dimethyl phthalate			80.0	72.8		ug/L		91	57 - 121	5	35
1,3-Dinitrobenzene			80.0	78.7		ug/L		98	50 - 124	2	41
2,6-Dinitrotoluene			80.0	72.7		ug/L		91	33 - 124	7	37
Acenaphthylene			80.0	62.9		ug/L		79	50 - 120	10	40
3-Nitroaniline			80.0	70.6		ug/L		88	46 - 121	7	39
Acenaphthene			80.0	63.0		ug/L		79	48 - 120	9	41
2,4-Dinitrophenol			160	163		ug/L		102	11 - 131	3	45
4-Nitrophenol			160	70.5		ug/L		44	31 - 120	3	29
Dibenzofuran			80.0	65.3		ug/L		82	51 - 120	8	40
2,4-Dinitrotoluene			80.0	78.7		ug/L		98	52 - 124	6	35
Pentachlorobenzene			80.0	54.7		ug/L		68	43 - 139	8	42
1-Naphthylamine			80.0	61.3		ug/L		77	33 - 130	6	50
2,3,4,6-Tetrachlorophenol			80.0	78.2		ug/L		98	55 - 136	4	37
2-Naphthylamine			80.0	61.6		ug/L		77	36 - 121	11	55
Diethyl phthalate			80.0	74.7		ug/L		93	56 - 123	4	32
4-Chlorophenyl phenyl ether			80.0	66.5		ug/L		83	52 - 120	6	40
Fluorene			80.0	67.5		ug/L		84	53 - 120	6	38
4-Nitroaniline			80.0	81.8		ug/L		102	49 - 122	4	121
4,6-Dinitro-2-methylphenol			160	163		ug/L		102	37 - 133	0	35
N-Nitrosodiphenylamine			80.0	72.5		ug/L		91	54 - 120	5	33
Diphenylamine			68.0	61.8		ug/L		91	52 - 120	5	35
1,3,5-Trinitrobenzene			80.0	79.2		ug/L		99	33 - 199	2	25
Diallate			80.0	70.4		ug/L		88	46 - 145	6	35
Phenacetin			80.0	75.8		ug/L		95	54 - 129	2	43
4-Bromophenyl phenyl ether			80.0	70.5		ug/L		88	57 - 120	8	35
Hexachlorobenzene			80.0	71.7		ug/L		90	56 - 120	6	34
4-Aminobiphenyl			80.0	55.5		ug/L		69	19 - 130	5	75
Pronamide			80.0	76.6		ug/L		96	53 - 136	3	35
Pentachlorophenol			160	154		ug/L		96	42 - 126	1	36

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

Lab Sample ID: LCSD 280-675636/3-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675636

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachloronitrobenzene			80.0	80.1		ug/L		100	68 - 146	3	33
Phenanthrene			80.0	71.8		ug/L		90	56 - 120	5	33
Anthracene			80.0	73.6		ug/L		92	56 - 121	4	33
Methyl parathion			80.0	86.2		ug/L		108	54 - 151	1	34
Di-n-butyl phthalate			80.0	79.7		ug/L		100	52 - 132	5	35
Methapyrilene			80.0	ND	*-	ug/L		7	10 - 120	113	149
Isodrin			80.0	68.9		ug/L		86	57 - 125	6	34
Fluoranthene			80.0	77.6		ug/L		97	54 - 122	3	32
Pyrene			80.0	78.3		ug/L		98	54 - 126	0	30
Butyl benzyl phthalate			80.0	82.8		ug/L		103	49 - 141	1	35
Famphur			80.0	84.5	J	ug/L		106	49 - 150	3	45
2-Acetylaminofluorene			80.0	76.0	J	ug/L		95	40 - 152	2	38
Bis(2-ethylhexyl) phthalate			80.0	82.9		ug/L		104	40 - 134	3	38
3,3'-Dichlorobenzidine			160	165		ug/L		103	42 - 147	1	35
Benz(a)anthracene			80.0	79.5		ug/L		99	57 - 127	2	31
Chrysene			80.0	74.5		ug/L		93	54 - 123	2	29
Di-n-octyl phthalate			80.0	78.1		ug/L		98	33 - 141	6	38
Benzo(b)fluoranthene			80.0	83.9		ug/L		105	44 - 134	5	39
Benzo(k)fluoranthene			80.0	74.3		ug/L		93	58 - 127	3	32
7,12-Dimethylbenz(a)anthracene			80.0	77.1		ug/L		96	46 - 124	3	37
Benzo(a)pyrene			80.0	77.9		ug/L		97	50 - 120	5	35
3-Methylcholanthrene			80.0	64.5		ug/L		81	51 - 120	5	38
Dibenz(a,h)anthracene			80.0	79.3		ug/L		99	48 - 125	4	37
Indeno(1,2,3-cd)pyrene			80.0	82.3		ug/L		103	38 - 120	2	36
Benzo(ghi)perylene			80.0	78.3		ug/L		98	52 - 120	4	36
bis(2-Chloroethyl) ether			80.0	60.6		ug/L		76	30 - 120	10	48
o-Toluidine			80.0	56.0		ug/L		70	25 - 129	7	82
Chlorobenzilate			80.0	81.2		ug/L		101	55 - 165	1	33
Parathion			80.0	77.6		ug/L		97	60 - 128	3	38
2,2'-oxybis(1-chloropropane)			80.0	59.3		ug/L		74	32 - 120	9	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*38*		*13 - 120*
Phenol-d5	*26*		*10 - 120*
Nitrobenzene-d5	*77*		*34 - 120*
2-Fluorobiphenyl	*69*		*28 - 120*
2,4,6-Tribromophenol	*95*		*22 - 140*
Terphenyl-d14	*96*		*55 - 142*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-675319/1-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
4,4'-DDE	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
4,4'-DDT	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 280-675319/1-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
alpha-BHC	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
cis-Chlordane	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
beta-BHC	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
delta-BHC	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Dieldrin	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endosulfan I	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endosulfan II	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endosulfan sulfate	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endrin	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endrin aldehyde	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
gamma-BHC (Lindane)	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
trans-Chlordane	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Heptachlor	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Heptachlor epoxide	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Kepone	ND		1.0		ug/L		11/15/24 15:55	11/18/24 16:50	1
Methoxychlor	ND		0.10		ug/L		11/15/24 15:55	11/18/24 16:50	1
Toxaphene	ND		2.0		ug/L		11/15/24 15:55	11/18/24 16:50	1
Technical Chlordane	ND		0.50		ug/L		11/15/24 15:55	11/18/24 16:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*10 - 157*	*11/15/24 15:55*	*11/18/24 16:50*	*1*
Tetrachloro-m-xylene	*75*		*12 - 129*	*11/15/24 15:55*	*11/18/24 16:50*	*1*

Lab Sample ID: LCS 280-675319/2-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.500	0.586		ug/L		117	63 - 140
4,4'-DDE	0.500	0.526		ug/L		105	58 - 132
4,4'-DDT	0.500	0.613		ug/L		123	64 - 159
Aldrin	0.500	0.503		ug/L		101	10 - 123
alpha-BHC	0.500	0.495		ug/L		99	62 - 123
cis-Chlordane	0.500	0.511		ug/L		102	54 - 138
beta-BHC	0.500	0.476		ug/L		95	58 - 120
delta-BHC	0.500	0.547		ug/L		109	63 - 128
Dieldrin	0.500	0.488		ug/L		98	62 - 135
Endosulfan I	0.500	0.479		ug/L		96	59 - 136
Endosulfan II	0.500	0.494		ug/L		99	56 - 131
Endosulfan sulfate	0.500	0.542		ug/L		108	63 - 138
Endrin	0.500	0.516		ug/L		103	66 - 134
Endrin aldehyde	0.500	0.493		ug/L		99	58 - 125
gamma-BHC (Lindane)	0.500	0.507		ug/L		101	63 - 126
trans-Chlordane	0.500	0.505		ug/L		101	56 - 135
Heptachlor	0.500	0.488		ug/L		98	26 - 136
Heptachlor epoxide	0.500	0.496		ug/L		99	62 - 133
Methoxychlor	0.500	0.608		ug/L		122	55 - 166

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-675319/2-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*10 - 157*
Tetrachloro-m-xylene	*83*		*12 - 129*

Lab Sample ID: LCS 280-675319/6-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			20.0	18.4		ug/L		92	52 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*10 - 157*
Tetrachloro-m-xylene	*69*		*12 - 129*

Lab Sample ID: LCS 280-675319/8-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Kepone			3.00	1.55		ug/L		52	10 - 328		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*10 - 157*
Tetrachloro-m-xylene	*54*		*12 - 129*

Lab Sample ID: LCSD 280-675319/3-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.500	0.592		ug/L		118	63 - 140	1	22
4,4'-DDE			0.500	0.535		ug/L		107	58 - 132	2	23
4,4'-DDT			0.500	0.619		ug/L		124	64 - 159	1	24
Aldrin			0.500	0.510		ug/L		102	10 - 123	1	43
alpha-BHC			0.500	0.507		ug/L		101	62 - 123	2	21
cis-Chlordane			0.500	0.520		ug/L		104	54 - 138	2	31
beta-BHC			0.500	0.488		ug/L		98	58 - 120	2	21
delta-BHC			0.500	0.558		ug/L		112	63 - 128	2	22
Dieldrin			0.500	0.499		ug/L		100	62 - 135	2	21
Endosulfan I			0.500	0.489		ug/L		98	59 - 136	2	22
Endosulfan II			0.500	0.502		ug/L		100	56 - 131	2	20
Endosulfan sulfate			0.500	0.591		ug/L		118	63 - 138	9	21
Endrin			0.500	0.525		ug/L		105	66 - 134	2	21
Endrin aldehyde			0.500	0.488		ug/L		98	58 - 125	1	23
gamma-BHC (Lindane)			0.500	0.553		ug/L		111	63 - 126	9	21
trans-Chlordane			0.500	0.512		ug/L		102	56 - 135	1	25
Heptachlor			0.500	0.508		ug/L		102	26 - 136	4	38
Heptachlor epoxide			0.500	0.534		ug/L		107	62 - 133	7	22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-675319/3-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor			0.500	0.616		ug/L		123	55 - 166	1	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*10 - 157*
Tetrachloro-m-xylene	*85*		*12 - 129*

Lab Sample ID: LCSD 280-675319/7-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toxaphene			20.0	19.3		ug/L		97	52 - 142	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*10 - 157*
Tetrachloro-m-xylene	*64*		*12 - 129*

Lab Sample ID: LCSD 280-675319/9-A
Matrix: Water
Analysis Batch: 675526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Kepone			3.00	2.31		ug/L		77	10 - 328	39	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*10 - 157*
Tetrachloro-m-xylene	*69*		*12 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-675319/1-A
Matrix: Water
Analysis Batch: 675450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:31	1
Aroclor 1221	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:31	1
Aroclor 1232	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:31	1
Aroclor 1242	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:31	1
Aroclor 1248	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:31	1
Aroclor 1254	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:31	1
Aroclor 1260	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*30 - 136*	*11/15/24 15:55*	*11/18/24 19:31*	*1*
Tetrachloro-m-xylene	*82*		*25 - 120*	*11/15/24 15:55*	*11/18/24 19:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 280-675319/4-A
Matrix: Water
Analysis Batch: 675450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			2.00	1.99		ug/L		100	71 - 128		
Aroclor 1260			2.00	2.18		ug/L		109	75 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*30 - 136*
Tetrachloro-m-xylene	*80*		*25 - 120*

Lab Sample ID: LCSD 280-675319/5-A
Matrix: Water
Analysis Batch: 675450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			2.00	1.88		ug/L		94	71 - 128	6	30
Aroclor 1260			2.00	1.58	*1	ug/L		79	75 - 126	32	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*30 - 136*
Tetrachloro-m-xylene	*67*		*25 - 120*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-675621/1-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		11/19/24 11:36	11/20/24 12:15	1
Disulfoton	ND		1.0		ug/L		11/19/24 11:36	11/20/24 12:15	1
Phorate	ND		1.2		ug/L		11/19/24 11:36	11/20/24 12:15	1
Thionazin	ND		1.0		ug/L		11/19/24 11:36	11/20/24 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*83*		*27 - 120*	*11/19/24 11:36*	*11/20/24 12:15*	*1*
Triphenylphosphate	*96*		*42 - 120*	*11/19/24 11:36*	*11/20/24 12:15*	*1*

Lab Sample ID: LCS 280-675621/2-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675621

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dimethoate			4.00	2.82		ug/L		71	20 - 120		
Disulfoton			4.00	3.72		ug/L		93	44 - 120		
Phorate			4.00	3.89		ug/L		97	33 - 124		
Thionazin			4.00	3.71		ug/L		93	39 - 128		

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCS 280-675621/2-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675621

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Chlormefos	*83*		*27 - 120*
Triphenylphosphate	*111*		*42 - 120*

Lab Sample ID: LCSD 280-675621/3-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675621

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate			4.00	3.25		ug/L		81	20 - 120	14	30
Disulfoton			4.00	4.02		ug/L		101	44 - 120	8	30
Phorate			4.00	4.12		ug/L		103	33 - 124	6	30
Thionazin			4.00	3.90		ug/L		97	39 - 128	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Chlormefos	*85*		*27 - 120*
Triphenylphosphate	*114*		*42 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-576393/1-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0		ug/L		11/18/24 15:06	11/19/24 10:33	1
2,4-D	ND		4.0		ug/L		11/18/24 15:06	11/19/24 10:33	1
Dinoseb	ND		1.0		ug/L		11/18/24 15:06	11/19/24 10:33	1
2,4,5-TP (Silvex)	ND		1.0		ug/L		11/18/24 15:06	11/19/24 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*34 - 142*	*11/18/24 15:06*	*11/19/24 10:33*	*1*
2,4-Dichlorophenylacetic acid	*57*		*34 - 142*	*11/18/24 15:06*	*11/19/24 10:33*	*1*

Lab Sample ID: LCS 410-576393/2-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576393

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			0.250	0.226	J	ug/L		90	57 - 171		
2,4,5-T			0.250	0.235	J	ug/L		94	57 - 171		
2,4-D			2.50	2.03	J	ug/L		81	53 - 159		
Dinoseb			1.25	0.789	J	ug/L		63	10 - 169		
Dinoseb			1.25	0.865	J	ug/L		69	10 - 169		
2,4,5-TP (Silvex)			0.250	0.225	J	ug/L		90	62 - 170		
2,4,5-TP (Silvex)			0.250	0.236	J	ug/L		94	62 - 170		

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 410-576393/2-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576393

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*87*		*34 - 142*
2,4-Dichlorophenylacetic acid	*77*		*34 - 142*

Lab Sample ID: LCSD 410-576393/3-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576393

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			0.250	0.247	J	ug/L		99	57 - 171	9	30
2,4-D			2.50	2.25	J	ug/L		90	53 - 159	10	30
Dinoseb			1.25	ND	*- *1	ug/L		7	10 - 169	165	30
2,4,5-TP (Silvex)			0.250	0.249	J	ug/L		99	62 - 170	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*95*		*34 - 142*
2,4-Dichlorophenylacetic acid	*88*		*34 - 142*

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-199738-C-5-B MS
Matrix: Water
Analysis Batch: 676048

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nickel	0.013		1.00	1.00		mg/L		99	84 - 120		
Tin	ND		1000	998		ug/L		100	77 - 125		

Lab Sample ID: 280-199738-C-5-C MSD
Matrix: Water
Analysis Batch: 676048

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	0.013		1.00	0.998		mg/L		98	84 - 120	1	20
Tin	ND		1000	993		ug/L		99	77 - 125	1	20

Lab Sample ID: MB 280-675647/1-A
Matrix: Water
Analysis Batch: 676048

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		11/19/24 14:37	11/21/24 00:45	1
Tin	ND		100		ug/L		11/19/24 14:37	11/21/24 00:45	1

Lab Sample ID: LCS 280-675647/2-A
Matrix: Water
Analysis Batch: 676048

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675647

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nickel			1.00	1.02		mg/L		102	89 - 111		

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

Lab Sample ID: LCS 280-675647/2-A
Matrix: Water
Analysis Batch: 676048

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tin	1000	1040		ug/L		104	85 - 113

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-676737/1-A
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676737

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/27/24 09:10	11/27/24 13:42	1

Lab Sample ID: LCS 280-676737/2-A
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00494		mg/L		99	84 - 120

Lab Sample ID: 280-199676-E-6-E MS
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 676737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00500	0.00488		mg/L		98	75 - 125

Lab Sample ID: 280-199676-E-6-F MSD
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 676737

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00496		mg/L		99	75 - 125	2	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 280-675967/18
Matrix: Water
Analysis Batch: 675967

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			11/20/24 14:04	1

Lab Sample ID: LCS 280-675967/19
Matrix: Water
Analysis Batch: 675967

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0999	0.107		mg/L		107	90 - 110

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 280-199595-3 MS
Matrix: Water
Analysis Batch: 675967

Client Sample ID: MW-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	ND	F1	0.0999	0.111	F1	mg/L		111	90 - 110		

Lab Sample ID: 280-199595-3 MSD
Matrix: Water
Analysis Batch: 675967

Client Sample ID: MW-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	0.0999	0.107		mg/L		107	90 - 110	3	20

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-675933/2-A
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675933

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		4.0		mg/L		11/20/24 14:49	11/20/24 16:18	1

Lab Sample ID: LCS 280-675933/1-A
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675933

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Sulfide			17.0	9.60		mg/L		56	44 - 110		

Lab Sample ID: 280-199760-C-9-B MS
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Sulfide	ND		17.0	10.4		mg/L		61	44 - 110		

Lab Sample ID: 280-199760-C-9-C MSD
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Sulfide	ND		17.0	9.60		mg/L		56	44 - 110	8	20

GC/MS VOA

Analysis Batch: 732871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-1	TRIP BLANK	Total/NA	Water	8260C	
280-199595-2	MW-19C	Total/NA	Water	8260C	
280-199595-3	MW-32	Total/NA	Water	8260C	
MB 480-732871/8	Method Blank	Total/NA	Water	8260C	
LCS 480-732871/6	Lab Control Sample	Total/NA	Water	8260C	
480-225549-A-4 MS	Matrix Spike	Total/NA	Water	8260C	
480-225549-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 675636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	3510C	
280-199595-3	MW-32	Total/NA	Water	3510C	
MB 280-675636/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675636/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675636/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	8270E	675636
280-199595-3	MW-32	Total/NA	Water	8270E	675636
MB 280-675636/1-A	Method Blank	Total/NA	Water	8270E	675636
LCS 280-675636/2-A	Lab Control Sample	Total/NA	Water	8270E	675636
LCSD 280-675636/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	675636

GC Semi VOA

Prep Batch: 576393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	8151A	
280-199595-3	MW-32	Total/NA	Water	8151A	
MB 410-576393/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-576393/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-576393/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 576549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	8151A	576393
280-199595-3	MW-32	Total/NA	Water	8151A	576393
MB 410-576393/1-A	Method Blank	Total/NA	Water	8151A	576393
LCS 410-576393/2-A	Lab Control Sample	Total/NA	Water	8151A	576393
LCSD 410-576393/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	576393

Prep Batch: 675319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	3510C	
280-199595-3	MW-32	Total/NA	Water	3510C	
MB 280-675319/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675319/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-675319/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-675319/6-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 675319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-675319/8-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675319/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675319/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675319/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675319/9-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	8082A	675319
280-199595-3	MW-32	Total/NA	Water	8082A	675319
MB 280-675319/1-A	Method Blank	Total/NA	Water	8082A	675319
LCS 280-675319/4-A	Lab Control Sample	Total/NA	Water	8082A	675319
LCSD 280-675319/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	675319

Analysis Batch: 675526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	8081B	675319
280-199595-3	MW-32	Total/NA	Water	8081B	675319
MB 280-675319/1-A	Method Blank	Total/NA	Water	8081B	675319
LCS 280-675319/2-A	Lab Control Sample	Total/NA	Water	8081B	675319
LCS 280-675319/6-A	Lab Control Sample	Total/NA	Water	8081B	675319
LCS 280-675319/8-A	Lab Control Sample	Total/NA	Water	8081B	675319
LCSD 280-675319/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	675319
LCSD 280-675319/7-A	Lab Control Sample Dup	Total/NA	Water	8081B	675319
LCSD 280-675319/9-A	Lab Control Sample Dup	Total/NA	Water	8081B	675319

Prep Batch: 675621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	3510C	
280-199595-3	MW-32	Total/NA	Water	3510C	
MB 280-675621/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675621/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675621/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	8141B	675621
280-199595-3	MW-32	Total/NA	Water	8141B	675621
MB 280-675621/1-A	Method Blank	Total/NA	Water	8141B	675621
LCS 280-675621/2-A	Lab Control Sample	Total/NA	Water	8141B	675621
LCSD 280-675621/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	675621

Metals

Prep Batch: 675647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total Recoverable	Water	3005A	
280-199595-3	MW-32	Total Recoverable	Water	3005A	
MB 280-675647/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-675647/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199738-C-5-B MS	Matrix Spike	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 675647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199738-C-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 676048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total Recoverable	Water	6010D	675647
280-199595-3	MW-32	Total Recoverable	Water	6010D	675647
MB 280-675647/1-A	Method Blank	Total Recoverable	Water	6010D	675647
LCS 280-675647/2-A	Lab Control Sample	Total Recoverable	Water	6010D	675647
280-199738-C-5-B MS	Matrix Spike	Total/NA	Water	6010D	675647
280-199738-C-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010D	675647

Prep Batch: 676737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	7470A	
280-199595-3	MW-32	Total/NA	Water	7470A	
MB 280-676737/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-676737/2-A	Lab Control Sample	Total/NA	Water	7470A	
280-199676-E-6-E MS	Matrix Spike	Total/NA	Water	7470A	
280-199676-E-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 677067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	7470A	676737
280-199595-3	MW-32	Total/NA	Water	7470A	676737
MB 280-676737/1-A	Method Blank	Total/NA	Water	7470A	676737
LCS 280-676737/2-A	Lab Control Sample	Total/NA	Water	7470A	676737
280-199676-E-6-E MS	Matrix Spike	Total/NA	Water	7470A	676737
280-199676-E-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	676737

General Chemistry

Prep Batch: 675933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	9030B	
280-199595-3	MW-32	Total/NA	Water	9030B	
MB 280-675933/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-675933/1-A	Lab Control Sample	Total/NA	Water	9030B	
280-199760-C-9-B MS	Matrix Spike	Total/NA	Water	9030B	
280-199760-C-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 675958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	9034	675933
280-199595-3	MW-32	Total/NA	Water	9034	675933
MB 280-675933/2-A	Method Blank	Total/NA	Water	9034	675933
LCS 280-675933/1-A	Lab Control Sample	Total/NA	Water	9034	675933
280-199760-C-9-B MS	Matrix Spike	Total/NA	Water	9034	675933
280-199760-C-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	675933

QC Association Summary

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

General Chemistry

Analysis Batch: 675967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-2	MW-19C	Total/NA	Water	9012B	
280-199595-3	MW-32	Total/NA	Water	9012B	
MB 280-675967/18	Method Blank	Total/NA	Water	9012B	
LCS 280-675967/19	Lab Control Sample	Total/NA	Water	9012B	
280-199595-3 MS	MW-32	Total/NA	Water	9012B	
280-199595-3 MSD	MW-32	Total/NA	Water	9012B	

Lab Chronicle

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-199595-1
Date Collected: 11/13/24 00:00
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	732871	11/19/24 13:39	AD	EET BUF

Client Sample ID: MW-19C
Lab Sample ID: 280-199595-2
Date Collected: 11/13/24 11:05
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	732871	11/19/24 14:01	AD	EET BUF
Total/NA	Prep	3510C			250 mL	1 mL	675636	11/19/24 11:40	DN	EET DEN
Total/NA	Analysis	8270E		1			675811	11/20/24 11:27	MAB	EET DEN
Total/NA	Prep	3510C			1033.2 mL	10 mL	675319	11/15/24 15:55	JES	EET DEN
Total/NA	Analysis	8081B		1	1 mL	1 mL	675526	11/18/24 19:13	SMQ	EET DEN
Total/NA	Prep	3510C			1033.2 mL	10 mL	675319	11/15/24 15:55	JES	EET DEN
Total/NA	Analysis	8082A		1	1 mL	1 mL	675450	11/18/24 22:01	SP	EET DEN
Total/NA	Prep	3510C			1013.6 mL	2 mL	675621	11/19/24 11:36	DN	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	675806	11/20/24 14:49	SP	EET DEN
Total/NA	Prep	8151A			968.1 mL	10 mL	576393	11/18/24 15:06	QJZ6	ELLE
Total/NA	Analysis	8151A		5			576549	11/19/24 13:23	UAMZ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	675647	11/19/24 14:37	KLG	EET DEN
Total Recoverable	Analysis	6010D		1			676048	11/21/24 00:52	NKC	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	676737	11/27/24 09:10	CAF	EET DEN
Total/NA	Analysis	7470A		1			677067	11/27/24 13:57	CAF	EET DEN
Total/NA	Analysis	9012B		1	10 mL	10 mL	675967	11/20/24 14:37	LBR	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	675933	11/20/24 14:49	CAI	EET DEN
Total/NA	Analysis	9034		1			675958	11/20/24 16:18	CAI	EET DEN

Client Sample ID: MW-32
Lab Sample ID: 280-199595-3
Date Collected: 11/13/24 12:20
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	732871	11/19/24 14:23	AD	EET BUF
Total/NA	Prep	3510C			250 mL	1 mL	675636	11/19/24 11:40	DN	EET DEN
Total/NA	Analysis	8270E		1			675811	11/20/24 11:49	MAB	EET DEN
Total/NA	Prep	3510C			1043.7 mL	10 mL	675319	11/15/24 15:55	JES	EET DEN
Total/NA	Analysis	8081B		1	1 mL	1 mL	675526	11/18/24 19:30	SMQ	EET DEN
Total/NA	Prep	3510C			1043.7 mL	10 mL	675319	11/15/24 15:55	JES	EET DEN
Total/NA	Analysis	8082A		1	1 mL	1 mL	675450	11/18/24 22:17	SP	EET DEN
Total/NA	Prep	3510C			989.6 mL	2 mL	675621	11/19/24 11:36	DN	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	675806	11/20/24 15:27	SP	EET DEN
Total/NA	Prep	8151A			1045.9 mL	10 mL	576393	11/18/24 15:06	QJZ6	ELLE
Total/NA	Analysis	8151A		5			576549	11/19/24 13:51	UAMZ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	675647	11/19/24 14:37	KLG	EET DEN
Total Recoverable	Analysis	6010D		1			676048	11/21/24 00:56	NKC	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199595-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-32
Date Collected: 11/13/24 12:20
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199595-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			30 mL	50 mL	676737	11/27/24 09:10	CAF	EET DEN
Total/NA	Analysis	7470A		1			677067	11/27/24 14:00	CAF	EET DEN
Total/NA	Analysis	9012B		1	10 mL	10 mL	675967	11/20/24 14:12	LBR	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	675933	11/20/24 14:49	CAI	EET DEN
Total/NA	Analysis	9034		1			675958	11/20/24 16:18	CAI	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

11 December 2024

Janice Collins
Eurofins - Test America - Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Olympic View Sanitary LF (OVSL) w/SCS Engineers (28002692)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
24K0530	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager

Cert# 100006-012

Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24K0530	Turn-around Requested: Standard	Date: 11/18/24	
AR Client Company: SCS Engineers	Phone: 425-507-6703	Page: 1 of 2	
Client Contact: Jovany Estrada		No. of Coolers:	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.27	Samplers: JE/AD		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low level Arsenic	Notes/Comments
MW-13A	11/14/24	1001	water	1		
MW-13B		1041				
MW-15R		1150				
MW-35		1133				
MW-19C	11/13/24	1105				
MW-29A		1338				
MW-32		1220				
DUP 1		1348				
MW-33A	11/14/24	1400				
MW-33C		1447				

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Jovany Estrada	Printed Name: Emma Stewart	Printed Name:	Printed Name:
	Company: SCS	Company: ARLLC	Company:	Company:
	Date & Time:	Date & Time: 11/19/24 13:30	Date & Time:	Date & Time:

Limits of Liability: *Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.*

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24K0530	Turn-around Requested: standard	Date: 11/18/24	
AR Client Company: SCS Engineers	Phone: 425-507-6703	Page: 2 of 2	
Client Contact: Jovany Estrada		No. of Coolers: 1	Cooler Temps: 3.4
Client Project Name: OVSL			
Client Project #: 042040027.27	Samplers: JE/AD		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low level Arsenic	Notes/Comments
MW-34A	11/13/24	1240	water	1		
MW-34C	↓	1135	↓	↓		
MW-35A	11/14/24	1220				
MW-36A	↓	1250				
MW-39	↓	1425				
MW-42	11/13/24	1510				
MW-43	↓	1340				
DUP 2	11/14/24	1300	↓	↓	↓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Jovany Estrada	[signature]		
	Printed Name: Jovany Estrada	Printed Name: Emme Stevens	Printed Name:	Printed Name:
	Company: SCS	Company: ARLLC	Company:	Company:
	Date & Time:	Date & Time: 11/19/24 1330	Date & Time:	Date & Time:

Limits of Liability: *Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.*

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13A	24K0530-01	Water	14-Nov-2024 10:01	18-Nov-2024 11:30
MW-13B	24K0530-02	Water	14-Nov-2024 10:41	18-Nov-2024 11:30
MW-15R	24K0530-03	Water	14-Nov-2024 11:50	18-Nov-2024 11:30
MW-35	24K0530-04	Water	14-Nov-2024 11:33	18-Nov-2024 11:30
MW-19C	24K0530-05	Water	13-Nov-2024 11:05	18-Nov-2024 11:30
MW-29A	24K0530-06	Water	13-Nov-2024 13:38	18-Nov-2024 11:30
MW-32	24K0530-07	Water	13-Nov-2024 12:20	18-Nov-2024 11:30
DUP 1	24K0530-08	Water	13-Nov-2024 13:48	18-Nov-2024 11:30
MW-33A	24K0530-09	Water	14-Nov-2024 14:00	18-Nov-2024 11:30
MW-33C	24K0530-10	Water	14-Nov-2024 14:47	18-Nov-2024 11:30
MW-34A	24K0530-11	Water	13-Nov-2024 12:40	18-Nov-2024 11:30
MW-34C	24K0530-12	Water	13-Nov-2024 11:35	18-Nov-2024 11:30
MW-35A	24K0530-13	Water	14-Nov-2024 12:20	18-Nov-2024 11:30
MW-36A	24K0530-14	Water	14-Nov-2024 12:50	18-Nov-2024 11:30
MW-39	24K0530-15	Water	14-Nov-2024 14:25	18-Nov-2024 11:30
MW-42	24K0530-16	Water	13-Nov-2024 15:10	18-Nov-2024 11:30
MW-43	24K0530-17	Water	13-Nov-2024 13:40	18-Nov-2024 11:30
DUP 2	24K0530-18	Water	14-Nov-2024 13:00	18-Nov-2024 11:30

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers
Project Number: 28002692
Work Order: 24K0530

Sample receipt

Samples as listed on the preceding page were received 18-Nov-2024 11:30 under ARI work order 24K0530. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Metals - EPA Method 6020B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

WORK ORDER

24K0530

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Eurofins - Test America - Denver **Project Manager:** Shelly Fishel

Project: Olympic View Sanitary LF (OVSL) w/SCS Engine **Project Number:** 28002692 (Job# please enter)

Preservation Confirmation

Container ID	Container Type	pH
24K0530-01 A	HDPE NM, 250mL HNO3	<2 Pass
24K0530-02 A	HDPE NM, 250mL HNO3	
24K0530-03 A	HDPE NM, 250mL HNO3	
24K0530-04 A	HDPE NM, 250mL HNO3	
24K0530-05 A	HDPE NM, 250mL HNO3	
24K0530-06 A	HDPE NM, 250mL HNO3	
24K0530-07 A	HDPE NM, 250mL HNO3	
24K0530-08 A	HDPE NM, 250mL HNO3	
24K0530-09 A	HDPE NM, 250mL HNO3	
24K0530-10 A	HDPE NM, 250mL HNO3	
24K0530-11 A	HDPE NM, 250mL HNO3	
24K0530-12 A	HDPE NM, 250mL HNO3	
24K0530-13 A	HDPE NM, 250mL HNO3	
24K0530-14 A	HDPE NM, 250mL HNO3	
24K0530-15 A	HDPE NM, 250mL HNO3	
24K0530-16 A	HDPE NM, 250mL HNO3	
24K0530-17 A	HDPE NM, 250mL HNO3	
24K0530-18 A	HDPE NM, 250mL HNO3	

RL
Preservation Confirmed By

11-21-24
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins Denver SCS Engineers Project Name: OVSL

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other:____

Assigned ARI Job No: 24K0530 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) Time 15:30 3.4 _____ _____ _____ _____ _____ Temp Gun ID#: 8117		
Was a temperature blank included in the cooler?	YES	(NO)
Were coolers received between 0°- 6° (°C)	(YES)	NO
Was sufficient ice used (if appropriate)?	NA (YES)	NO

Cooler Accepted by: ES Date: 11/18/24 Time: 13:30

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block N/A Other: _____

Are any samples that were out of temperature compliance documented in LIMS?		YES	(NO)
How were bottles sealed in plastic bags?	Individually	Grouped	(Not)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		YES	(NO)
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		YES	(NO)
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RL Date: 11-21-24 Time: 11:13 Labels checked by: RL

***** Notify Project Manager of discrepancies or concerns *****

Additional Notes, Discrepancies, & Resolutions:

There are two 34C samples and missing 34A.

Determined which sample by the sample time. Added detail Shelly Fishel 11/23/2024

By: Date:

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-13A
24K0530-01 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 10:01
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:19

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-01 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.208	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-13B

24K0530-02 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 10:41
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:22

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-02 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.330	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-15R

24K0530-03 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 11:50

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:26

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-03 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.238	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-35

24K0530-04 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 11:33
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:29

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-04 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.381	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-19C

24K0530-05 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 11:05

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:33

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-05 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.08	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-29A

24K0530-06 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:38

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:36

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-06 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.20	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-32

24K0530-07 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 12:20

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:40

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-07 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	9.30	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

DUP 1

24K0530-08 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:48

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:43

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-08 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.09	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-33A

24K0530-09 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:00

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:20

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-09 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	2	0.0149	0.0800	0.125	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-33C

24K0530-10 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:47

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:47

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-10 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.70	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-34A

24K0530-11 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 12:40

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:24

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-11 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	2	0.0149	0.0800	3.00	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-34C

24K0530-12 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 11:35

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:27

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-12 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0373	0.200	13.4	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-35A

24K0530-13 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 12:20

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:03

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-13 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.115	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-36A

24K0530-14 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 12:50

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/09/2024 20:57

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-14 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.499	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-39

24K0530-15 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:25

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:10

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-15 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	1.23	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-42

24K0530-16 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 15:10

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:14

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-16 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.50	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-43

24K0530-17 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:40

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:17

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-17 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.0536	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

DUP 2

24K0530-18 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 13:00

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:21

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-18 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.463	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0007 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0007-BLK1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:03						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0007-BS1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:07						
Arsenic	75a	4.71	0.00746	0.0400	ug/L	5.00		94.2	80-120			
LCS Dup (BML0007-BSD1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:10						
Arsenic	75a	4.75	0.00746	0.0400	ug/L	5.00		95.0	80-120	0.85	20	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0033 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0033-BLK1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:14						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0033-BS1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:17						
Arsenic	75a	4.74	0.00746	0.0400	ug/L	5.00		94.7	80-120			

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B UCT-KED in Water	
Arsenic-75a	WADOE,DoD-ELAP,ADEC,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: TE	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-145143-7452.1
Client Contact: Ms. Emily Smart	Phone: 425-5076703	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: SCS Engineers	PWSID:			Job #:
Address: 2405 140th Avenue NE Suite 107	Due Date Requested:			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not requir			
Email: esmart@scsengineers.com	WO #:			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692 - App III Groundwater 3 yr ('18, '21, '24)			
Site: Washington	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
D - HNO3
N - None
CB - ZnAcetate/NaOH
B - NaOH
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)	8260B - VOCs	6010D/7470A - Total Metals	8081A/8082 - Pest/PCBs	8141A - OP Pest	8270C - SVOCs	9034 - Total Sulfide	9012B_NP - Total Cyanide	8151A - Herbicides (4) (Lancaster)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N	N	N	CB	B	N		
TRIP BLANK				Water												
~~MW-19C~~				Water												
~~MW-32~~ MW-19C	11/12/24	1105	G	Water	N	N	X	X	X	X	X	X	X	X		
MW-32	11/13/24	1220	G	W	N	N	X	X	X	X	X	X	X	X		

280-199595 Chain of Custody

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☒ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
TC	11/13/24	SCS		11/14/24 09:05	EET DEN
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: 2.8/5.5/1.9/3.3/5.0 IR TUI CF+0.2

Ver: 05/06/2024


280-199595 Waybill
Fed Ex Express
TO SHIPPING MANAGER
TEST AMERICA
4955 YARROW ST
RETURNS
ARVADA CO 80002
(303) 736-0100
REF: 5280-145144
RMA:
UNITED STATES US
80002
DEN
CO-US
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
FedEx
TRK# 0221 7385 6156 0453
XA LAAA
XA LAAA
TRK# 0687 8185 0748 9041
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
80002
DEN
CO-US
XA LAAA
FedEx
TRK# 0221 7385 6156 0475
THU -
PRIORIT
FedEx Express
ARVADA CO 80002
(303) 736-0100
REF:
DEPT:
PO:
INV:
(US)
TO SAMPLE RECEIVING
ENVIRON TESTING - DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
REF: 5280-145144
RMA:
TO SHIPPING MANAGER
TEST AMERICA
4955 YARROW ST
RETURNS
ARVADA CO 80002
ORIGIN ID:PWTA
SHIP DATE: 13NOV24
ACTWGT: 20.70 LB
CAD: /SSFE2560
DIMS: 24x15x14 IN

XA LAAA
TRK# 8185 0749 6411
0221
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
80002
DEN
CO - US
FedEx Express
ORIGIN ID:PWTA
SHIP DATE: 13NOV24
ACTWGT: 54.00 LB
CAD: 5SFE2560
DIMS: 24x16x12 IN
SAMPLE RECEIVING/ EUROGENS
VIRON TESTING - DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 738-0100
INV:
PO:
DEPT:
REF:
(US)
FedEx Express
J244024091002uv
Part # 156274-200 REV08 EXP 07/25
XA LAAA
TRK# 7385 6156 0464
0221
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
80002
DEN
CO - US
FedEx Express
J243024070401uv
SHIPPING MANAGER
TEST AMERICA
4955 YARROW ST
RETURNS
ARVADA CO 80002
(303) 736-0100
REF: S280-145144

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-724447.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): N/A		Job #: 280-199595-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 12/9/2024			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Groundwater	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP 8151A, Herbicides (4) (Lancaster)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-19C (280-199595-2)	11/13/24	11:05 Pacific	G	Water			X	2	
MW-32 (280-199595-3)	11/13/24	12:20 Pacific	G	Water			X	2	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/15/24 15:00	ET Denver			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 11/16/24 09:40	Company ELLET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2 C

N/C

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-724636.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): N/A		Job #: 280-199595-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/9/2024			
City: Amherst	TAT Requested (days): N/A			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Groundwater	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C (MOD) Appendix II (short list spike)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TRIP BLANK (280-199595-1)	11/13/24	Pacific	G	Water			X	2	
MW-19C (280-199595-2)	11/13/24	11:05 Pacific	G	Water			X	3	
MW-32 (280-199595-3)	11/13/24	12:20 Pacific	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/18/24 1500	eet den	KS	11-19-24 1100	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7 IR#5C Ice

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199595-1

Login Number: 199595
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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.	False	No: Containers received broken and no volume could be salvaged for analysis
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199595-1

Login Number: 199595
List Number: 3
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo
List Creation: 11/19/24 11:35 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 IR#SC ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199595-1

Login Number: 199595
List Number: 2
Creator: Kanagy, Nicholas

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/16/24 01:29 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

Generated 1/20/2025 4:44:15 PM Revision 1

JOB DESCRIPTION

WA02|Olympic View Sanitary LF - Groundwater
Semiannual GW AppI/II - May Nov

JOB NUMBER

280-199650-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

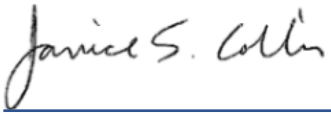
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Revision 1

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-199650-1 Eurofins Denver

Job Narrative
280-199650-1

Revision
The report being provided is a revision of the original report sent on 12/10/2024. The report (revision 1) is being revised d to include subcontract data for Low level Arsenic from Analytical Resources, LLC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 11/15/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7°C, 1.7°C and 4.2°C.

GC/MS VOA
Method 8260D: The following compounds were outside control limits of 20%D in the continuing calibration verification (CCV) associated with batch 280-676768: Bromomethane (-22.6%D) and iodomethane (-34.5%D). These compounds are considered poor performers and have recovered within LCS/LCSD limits. The following samples are affected: MW-15R (280-199650-1), MW-36A (280-199650-2), DUP2 (280-199650-3), MW-39 (280-199650-4), MW-35 (280-199650-5), MW-13A (280-199650-6), MW-13B (280-199650-7), MW-35A (280-199650-8), MW-33A (280-199650-9), MW-33C (280-199650-10), TRIP BLANKS (280-199650-11) and (CCV 280-676768/2).

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-676768 recovered above the upper control limits of 20%D for vinyl acetate (41.9%D), bromoform (23.6%D), and 2-methyl-2-propanol (tert-butyl alcohol) (20.7%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-15R (280-199650-1), MW-36A (280-199650-2), DUP2 (280-199650-3), MW-39 (280-199650-4), MW-35 (280-199650-5), MW-13A (280-199650-6), MW-13B (280-199650-7), MW-35A (280-199650-8), MW-33A (280-199650-9), MW-33C (280-199650-10), TRIP BLANKS (280-199650-11) and (CCV 280-676768/2).

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-676768. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. The associated samples are: MW-15R (280-199650-1), MW-36A (280-199650-2), DUP2 (280-199650-3), MW-39 (280-199650-4), MW-35 (280-199650-5), MW-13A (280-199650-6), MW-13B (280-199650-7), MW-35A (280-199650-8), MW-33A (280-199650-9), MW-33C (280-199650-10) and TRIP BLANKS (280-199650-11).

Method 8260D: The initial calibration verification (ICV) result for batch 280-676768 was outside the lower control limit for acrolein. This compound is considered a poor performer and has recovered within LCS/LCSD limits. The following samples are affected: MW-15R (280-199650-1), MW-36A (280-199650-2), DUP2 (280-199650-3), MW-39 (280-199650-4), MW-35 (280-199650-5), MW-13A (280-199650-6), MW-13B (280-199650-7), MW-35A (280-199650-8), MW-33A (280-199650-9), MW-33C (280-199650-10) and TRIP BLANKS (280-199650-11).

Method 8260D_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-675316.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide

precision data for this batch.The associated samples are: MW-15R (280-199650-1), MW-36A (280-199650-2), DUP2 (280-199650-3), MW-39 (280-199650-4), MW-35 (280-199650-5), MW-13A (280-199650-6), MW-13B (280-199650-7), MW-35A (280-199650-8), MW-33A (280-199650-9), MW-33C (280-199650-10) and TRIP BLANKS (280-199650-11)

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-732871 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated sample was non-detect for the analyte(s), the data are reported.The associated sample is impacted: MW-15R (280-199650-1).

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

GC/MS Semi VOA
Method 8270E: The following samples MW-15R (280-199650-1) in preparation batch 280-675636 was decanted prior to preparation due to incorrect volume sent.

Method 8270E: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675636.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 280-675636 and analytical batch 280-675811 recovered outside control limits for the following analytes: Hexachlorocyclopentadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 280-675636 and analytical batch 280-675811 recovered outside control limits for the following analyte(s): Methapyrilene. Methapyrilene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

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

Herbicides
Method 8151A: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 410-576900 and analytical batch 410-577067 recovered outside control limits bias low for the following analyte: Dinoseb. The recovery for the LCS/D are 3/6% (the limit is 10-169%) but Dinoseb is a problematic compound to recover. The associated sample was not detected; therefore, the data have been reported. MW-15R (280-199650-1)

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

PCBs
Method 8082A: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675458. MW-15R (280-199650-1)

Method 8082A: The continuing calibration verification (CCV) associated with analytical batch 280-675600 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr). The samples associated with this CCV are in control for surrogate; therefore, the data have been reported. The associated sample is impacted: (CCV 280-675600/36).

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

Pesticides
Method 8081B: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675458. MW-15R (280-199650-1)

Method 8141B: The continuing calibration verification (CCV) associated with preparation batch 280-675621 and analytical batch 280-675806 recovered above the upper control limit for Phorate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-15R (280-199650-1), (CCV 280-675806/16) and (CCVIS 280-675806/5).

Job ID: 280-199650-1 (Continued) Eurofins Denver

Method 8141B: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-675621. Method 8141/614

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

Metals
Method 6020B - Dissolved: The results reported for the following sample do not concur with results previously reported for this site for Mn: MW-33C (280-199650-10). However, the result is within 10% variance from the historical range.

Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-675365 and analytical batch 280-675612 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference, high targets and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Cr: MW-35 (280-199650-5). Reanalysis (bottle check) was performed, and the result(s) confirmed.

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

General Chemistry
Method 2320B: The results reported for the following sample does not concur with results previously reported for this site: MW-35 (280-199650-5). However, the result is within 10% variance from the historical range.

Method 2540C_Calcd: The results reported for the following sample do not concur with results previously reported for this site: MW-15R (280-199650-1). However, the result is within 10% variance from the historical range.

Method 300.0_28D: The results reported for the following samples do not concur with results previously reported for this site: MW-15R (280-199650-1). Reanalysis was performed, and the results confirmed.

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

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

Detection Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-15R — Lab Sample ID: 280-199650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	14		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	8.9		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.0		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	5.2		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0046		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.0026		0.0010		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0029		0.0020		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.0025		0.0010		mg/L	1		6020B	Dissolved
Chloride	3.0		3.0		mg/L	1		300.0	Total/NA
Sulfate	5.4		5.0		mg/L	1		300.0	Total/NA
Nitrate as N	0.15		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	73		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	73		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	120		5.0		mg/L	1		SM 2540C	Total/NA
Depth to water	19.21				ft	1		Field Sampling	Total/NA
Specific Conductivity	159				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.8				mg/L	1		Field Sampling	Total/NA
eH	20.7				millivolts	1		Field Sampling	Total/NA
Turbidity	3.0				NTU	1		Field Sampling	Total/NA
Temperature	10.0				Degrees C	1		Field Sampling	Total/NA
pH	6.36				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-36A — Lab Sample ID: 280-199650-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	10		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	6.9		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	6.4		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0021		0.0010		mg/L	1		6020B	Total Recoverable
Chromium, Total	0.0095		0.0030		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0025		0.0020		mg/L	1		6020B	Total Recoverable
Nitrate as N	0.46		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	59		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	59		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	100		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	1.0		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	31.70				ft	1		Field Sampling	Total/NA
Specific Conductivity	125				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	4.0				mg/L	1		Field Sampling	Total/NA
eH	105.7				millivolts	1		Field Sampling	Total/NA
Turbidity	2.7				NTU	1		Field Sampling	Total/NA
Temperature	9.6				Degrees C	1		Field Sampling	Total/NA
pH	5.92				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: DUP2 — Lab Sample ID: 280-199650-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	9.9		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	6.7		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.1		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	6.2		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0024		0.0010		mg/L	1		6020B	Total Recoverable
Chromium, Total	0.0094		0.0030		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0023		0.0020		mg/L	1		6020B	Total Recoverable
Nitrate as N	0.47		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	62		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	62		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	100		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	1.1		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW-39 — Lab Sample ID: 280-199650-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Total	0.0079		0.0030		mg/L	1		6010D	Total Recoverable
Iron, Total	35		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	14		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	39		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	8.6		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	9.2		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.014		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.45		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.51		0.0010		mg/L	1		6020B	Dissolved
Chloride	5.1		3.0		mg/L	1		300.0	Total/NA
Ammonia (as N)	0.42		0.030		mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	84		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	84		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	130		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	15		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon - Average	2.8		1.0		mg/L	1		SM 5310B	Total/NA
Depth to water	21.04				ft	1		Field Sampling	Total/NA
Specific Conductivity	271				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.5				mg/L	1		Field Sampling	Total/NA
eH	-60.8				millivolts	1		Field Sampling	Total/NA
Turbidity	3.8				NTU	1		Field Sampling	Total/NA
Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
pH	6.03				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-35 — Lab Sample ID: 280-199650-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	13		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	7.1		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.0		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	5.4		1.0		mg/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: MW-35 (Continued) — Lab Sample ID: 280-199650-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium, Total	0.0039		0.0010		mg/L	1		6020B	Total Recoverable
Chromium, Total	0.0081		0.0030		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0032		0.0020		mg/L	1		6020B	Total Recoverable
Nitrate as N	0.13		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	65		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	65		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	100		5.0		mg/L	1		SM 2540C	Total/NA
Depth to water	61.72				ft	1		Field Sampling	Total/NA
Specific Conductivity	189				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	7.8				mg/L	1		Field Sampling	Total/NA
eH	377.6				millivolts	1		Field Sampling	Total/NA
Turbidity	4.5				NTU	1		Field Sampling	Total/NA
Temperature	9.2				Degrees C	1		Field Sampling	Total/NA
pH	6.11				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13A — Lab Sample ID: 280-199650-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	17		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	9.6		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	5.3		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0030		0.0010		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0034		0.0020		mg/L	1		6020B	Total Recoverable
Nitrate as N	0.55		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	87		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	87		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	110		5.0		mg/L	1		SM 2540C	Total/NA
Depth to water	48.40				ft	1		Field Sampling	Total/NA
Specific Conductivity	239				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	6.8				mg/L	1		Field Sampling	Total/NA
eH	348.5				millivolts	1		Field Sampling	Total/NA
Turbidity	3.7				NTU	1		Field Sampling	Total/NA
Temperature	9.1				Degrees C	1		Field Sampling	Total/NA
pH	6.57				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13B — Lab Sample ID: 280-199650-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	18		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	8.9		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	5.2		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0036		0.0010		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0053		0.0020		mg/L	1		6020B	Total Recoverable
Chloride	6.3		3.0		mg/L	1		300.0	Total/NA
Nitrate as N	0.45		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	87		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	87		10		mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13B (Continued) — Lab Sample ID: 280-199650-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids (TDS)	110		5.0		mg/L	1		SM 2540C	Total/NA
Depth to water	62.21				ft	1		Field Sampling	Total/NA
Specific Conductivity	236				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	7.4				mg/L	1		Field Sampling	Total/NA
eH	345.0				millivolts	1		Field Sampling	Total/NA
Turbidity	4.2				NTU	1		Field Sampling	Total/NA
Temperature	9.2				Degrees C	1		Field Sampling	Total/NA
pH	7.21				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-35A — Lab Sample ID: 280-199650-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium, Dissolved	16		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	9.4		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	5.3		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0032		0.0010		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0041		0.0020		mg/L	1		6020B	Total Recoverable
Nitrate as N	0.43		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	81		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	81		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	100		5.0		mg/L	1		SM 2540C	Total/NA
Depth to water	73.31				ft	1		Field Sampling	Total/NA
Specific Conductivity	226				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	6.9				mg/L	1		Field Sampling	Total/NA
eH	356.6				millivolts	1		Field Sampling	Total/NA
Turbidity	5.0				NTU	1		Field Sampling	Total/NA
Temperature	10.1				Degrees C	1		Field Sampling	Total/NA
pH	7.03				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-33A — Lab Sample ID: 280-199650-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron, Total	1.3		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	11		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	0.13		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	4.9		0.050		mg/L	1		6010D	Dissolved
Sodium, Dissolved	3.2		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0023		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.038		0.0010		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0022		0.0020		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.030		0.0010		mg/L	1		6020B	Dissolved
Ammonia (as N)	0.049		0.030		mg/L	1		350.1	Total/NA
Nitrate as N	0.22		0.050		mg/L	1		353.2	Total/NA
Alkalinity, Total (As CaCO3)	48		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	48		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	81		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	3.1		1.0		mg/L	1		SM 5310B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-33A (Continued) — Lab Sample ID: 280-199650-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Depth to water	3.93				ft	1		Field Sampling	Total/NA
Specific Conductivity	151				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	1.2				mg/L	1		Field Sampling	Total/NA
eH	304.1				millivolts	1		Field Sampling	Total/NA
Turbidity	9.1				NTU	1		Field Sampling	Total/NA
Temperature	9.7				Degrees C	1		Field Sampling	Total/NA
pH	6.02				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-33C — Lab Sample ID: 280-199650-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron, Total	0.26		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	18		0.20		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	7.3		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.4		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	4.1		1.0		mg/L	1		6010D	Dissolved
Barium, Total	0.0050		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.22		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.14		0.0010		mg/L	1		6020B	Dissolved
Chloride	3.2		3.0		mg/L	1		300.0	Total/NA
Sulfate	8.6		5.0		mg/L	1		300.0	Total/NA
Alkalinity, Total (As CaCO3)	70		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	70		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	100		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.4		4.0		mg/L	1		SM 2540D	Total/NA
Depth to water	1.69				ft	1		Field Sampling	Total/NA
Specific Conductivity	216				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	0.9				mg/L	1		Field Sampling	Total/NA
eH	286.1				millivolts	1		Field Sampling	Total/NA
Turbidity	7.1				NTU	1		Field Sampling	Total/NA
Temperature	9.1				Degrees C	1		Field Sampling	Total/NA
pH	7.18				SU	1		Field Sampling	Total/NA

Client Sample ID: TRIP BLANKS — Lab Sample ID: 280-199650-11

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET DEN
8081B	Organochlorine Pesticides (GC)	SW846	EET DEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET DEN
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
8151A	Herbicides (GC)	SW846	ELLE
6010D	Metals (ICP)	SW846	EET DEN
6020B	Metals (ICP/MS)	SW846	EET DEN
7470A	Mercury (CVAA)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrate	EPA	EET DEN
9012B	Cyanide, Total and/or Amenable	SW846	EET DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET DEN
8151A	Extraction (Herbicides)	SW846	ELLE
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199650-1	MW-15R	Water	11/14/24 11:50	11/15/24 09:10
280-199650-2	MW-36A	Water	11/14/24 12:50	11/15/24 09:10
280-199650-3	DUP2	Water	11/14/24 13:00	11/15/24 09:10
280-199650-4	MW-39	Water	11/14/24 14:25	11/15/24 09:10
280-199650-5	MW-35	Water	11/14/24 11:33	11/15/24 09:10
280-199650-6	MW-13A	Water	11/14/24 10:01	11/15/24 09:10
280-199650-7	MW-13B	Water	11/14/24 10:41	11/15/24 09:10
280-199650-8	MW-35A	Water	11/14/24 12:20	11/15/24 09:10
280-199650-9	MW-33A	Water	11/14/24 14:00	11/15/24 09:10
280-199650-10	MW-33C	Water	11/14/24 14:47	11/15/24 09:10
280-199650-11	TRIP BLANKS	Water	11/14/24 10:01	11/15/24 09:10

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

Client Sample ID: MW-15R
Lab Sample ID: 280-199650-1
Date Collected: 11/14/24 11:50
Matrix: Water
Date Received: 11/15/24 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 15:52	1
Acetonitrile	ND		15		ug/L			11/19/24 15:52	1
Acrolein	ND		20		ug/L			11/19/24 15:52	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 15:52	1
Benzene	ND		1.0		ug/L			11/19/24 15:52	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 15:52	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 15:52	1
Bromoform	ND		1.0		ug/L			11/19/24 15:52	1
Bromomethane	ND		1.0		ug/L			11/19/24 15:52	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 15:52	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 15:52	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 15:52	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 15:52	1
Chloroprene	ND		1.0		ug/L			11/19/24 15:52	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 15:52	1
Chloroethane	ND		1.0		ug/L			11/19/24 15:52	1
Chloroform	ND		1.0		ug/L			11/19/24 15:52	1
Chloromethane	ND		1.0		ug/L			11/19/24 15:52	1
Allyl chloride	ND		1.0		ug/L			11/19/24 15:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 15:52	1
Dibromomethane	ND		1.0		ug/L			11/19/24 15:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:52	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 15:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 15:52	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 15:52	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 15:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 15:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 15:52	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 15:52	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 15:52	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 15:52	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 15:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 15:52	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 15:52	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 15:52	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 15:52	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 15:52	1
2-Hexanone	ND		5.0		ug/L			11/19/24 15:52	1
Iodomethane	ND		1.0		ug/L			11/19/24 15:52	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 15:52	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 15:52	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 15:52	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 15:52	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 15:52	1
Naphthalene	ND		1.0		ug/L			11/19/24 15:52	1
Propionitrile	ND		10		ug/L			11/19/24 15:52	1
Styrene	ND		1.0		ug/L			11/19/24 15:52	1

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

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 15:52	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 15:52	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 15:52	1
Toluene	ND		1.0		ug/L			11/19/24 15:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 15:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 15:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 15:52	1
Trichloroethene	ND		1.0		ug/L			11/19/24 15:52	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 15:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 15:52	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 15:52	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 15:52	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 15:52	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 15:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*11/19/24 15:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*11/19/24 15:52*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/19/24 15:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/19/24 15:52*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*11/19/24 15:52*	*1*

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

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 18:42*	*1*

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 19:03*	*1*

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*11/15/24 19:24*	*1*

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

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 19:45*	*1*

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 20:06*	*1*

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*11/15/24 20:27*	*1*

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 20:48*	*1*

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 21:09*	*1*

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*11/15/24 21:30*	*1*

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

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*11/15/24 21:50*	*1*

Client Sample ID: TRIP BLANKS
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*11/15/24 15:31*	*1*

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

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 11:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 11:25	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 11:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 11:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 11:25	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 11:25	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 11:25	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 11:25	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 11:25	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 11:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 11:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 11:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 11:25	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 11:25	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 11:25	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 11:25	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 11:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 11:25	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 11:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 11:25	1
1,4-Dioxane	ND		40		ug/L			11/27/24 11:25	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 11:25	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 11:25	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 11:25	1
2-Hexanone	ND		5.0		ug/L			11/27/24 11:25	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 11:25	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 11:25	1
p-Cymene	ND		1.0		ug/L			11/27/24 11:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 11:25	1

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

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		15		ug/L			11/27/24 11:25	1
Acetonitrile	ND		30		ug/L			11/27/24 11:25	1
Acrolein	ND		20		ug/L			11/27/24 11:25	1
Acrylonitrile	ND		20		ug/L			11/27/24 11:25	1
Benzene	ND		1.0		ug/L			11/27/24 11:25	1
Bromobenzene	ND		1.0		ug/L			11/27/24 11:25	1
Bromoform	ND		2.0		ug/L			11/27/24 11:25	1
Bromomethane	ND		5.0		ug/L			11/27/24 11:25	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 11:25	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 11:25	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 11:25	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 11:25	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 11:25	1
Chloroethane	ND		2.0		ug/L			11/27/24 11:25	1
Chloroform	ND		1.0		ug/L			11/27/24 11:25	1
Chloromethane	ND		2.0		ug/L			11/27/24 11:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 11:25	1
Cyclohexane	ND		1.0		ug/L			11/27/24 11:25	1
Dibromomethane	ND		1.0		ug/L			11/27/24 11:25	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 11:25	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 11:25	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 11:25	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 11:25	1
Ethyl ether	ND		2.0		ug/L			11/27/24 11:25	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 11:25	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 11:25	1
Hexane	ND		2.0		ug/L			11/27/24 11:25	1
Iodomethane	ND		5.0		ug/L			11/27/24 11:25	1
Isobutanol	ND		110		ug/L			11/27/24 11:25	1
Isopropyl ether	ND		10		ug/L			11/27/24 11:25	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
Methacrylonitrile	ND		15		ug/L			11/27/24 11:25	1
Methyl acetate	ND		5.0		ug/L			11/27/24 11:25	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 11:25	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 11:25	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 11:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 11:25	1
Naphthalene	ND		3.0		ug/L			11/27/24 11:25	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 11:25	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
o-Xylene	ND		1.0		ug/L			11/27/24 11:25	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 11:25	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 11:25	1
Toluene	ND		1.0		ug/L			11/27/24 11:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 11:25	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 11:25	1

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

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 11:25	1
Trichloroethene	ND		1.0		ug/L			11/27/24 11:25	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 11:25	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 11:25	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 11:25	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 11:25	1
Styrene	ND		1.0		ug/L			11/27/24 11:25	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 11:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 11:25	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*11/27/24 11:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*11/27/24 11:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/27/24 11:25*	*1*

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 11:46	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 11:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 11:46	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 11:46	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 11:46	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 11:46	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 11:46	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 11:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 11:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 11:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 11:46	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 11:46	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 11:46	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 11:46	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 11:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 11:46	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 11:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 11:46	1
1,4-Dioxane	ND		40		ug/L			11/27/24 11:46	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 11:46	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 11:46	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 11:46	1
2-Hexanone	ND		5.0		ug/L			11/27/24 11:46	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 11:46	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 11:46	1
p-Cymene	ND		1.0		ug/L			11/27/24 11:46	1

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

Client Sample ID: MW-36A
Lab Sample ID: 280-199650-2
Date Collected: 11/14/24 12:50
Matrix: Water
Date Received: 11/15/24 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 11:46	1
Acetone	ND		15		ug/L			11/27/24 11:46	1
Acetonitrile	ND		30		ug/L			11/27/24 11:46	1
Acrolein	ND		20		ug/L			11/27/24 11:46	1
Acrylonitrile	ND		20		ug/L			11/27/24 11:46	1
Benzene	ND		1.0		ug/L			11/27/24 11:46	1
Bromobenzene	ND		1.0		ug/L			11/27/24 11:46	1
Bromoform	ND		2.0		ug/L			11/27/24 11:46	1
Bromomethane	ND		5.0		ug/L			11/27/24 11:46	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 11:46	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 11:46	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 11:46	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 11:46	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 11:46	1
Chloroethane	ND		2.0		ug/L			11/27/24 11:46	1
Chloroform	ND		1.0		ug/L			11/27/24 11:46	1
Chloromethane	ND		2.0		ug/L			11/27/24 11:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 11:46	1
Cyclohexane	ND		1.0		ug/L			11/27/24 11:46	1
Dibromomethane	ND		1.0		ug/L			11/27/24 11:46	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 11:46	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 11:46	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 11:46	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 11:46	1
Ethyl ether	ND		2.0		ug/L			11/27/24 11:46	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 11:46	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 11:46	1
Hexane	ND		2.0		ug/L			11/27/24 11:46	1
Iodomethane	ND		5.0		ug/L			11/27/24 11:46	1
Isobutanol	ND		110		ug/L			11/27/24 11:46	1
Isopropyl ether	ND		10		ug/L			11/27/24 11:46	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
Methacrylonitrile	ND		15		ug/L			11/27/24 11:46	1
Methyl acetate	ND		5.0		ug/L			11/27/24 11:46	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 11:46	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 11:46	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 11:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 11:46	1
Naphthalene	ND		3.0		ug/L			11/27/24 11:46	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 11:46	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
o-Xylene	ND		1.0		ug/L			11/27/24 11:46	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 11:46	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 11:46	1
Toluene	ND		1.0		ug/L			11/27/24 11:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 11:46	1

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

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 11:46	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 11:46	1
Trichloroethene	ND		1.0		ug/L			11/27/24 11:46	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 11:46	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 11:46	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 11:46	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 11:46	1
Styrene	ND		1.0		ug/L			11/27/24 11:46	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 11:46	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 11:46	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*11/27/24 11:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*11/27/24 11:46*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/27/24 11:46*	*1*

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 12:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 12:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 12:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 12:07	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 12:07	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 12:07	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 12:07	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 12:07	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 12:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 12:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 12:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:07	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 12:07	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 12:07	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 12:07	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 12:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:07	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 12:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:07	1
1,4-Dioxane	ND		40		ug/L			11/27/24 12:07	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 12:07	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 12:07	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 12:07	1
2-Hexanone	ND		5.0		ug/L			11/27/24 12:07	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 12:07	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 12:07	1

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

Client Sample ID: DUP2
Lab Sample ID: 280-199650-3
Date Collected: 11/14/24 13:00
Matrix: Water
Date Received: 11/15/24 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Cymene	ND		1.0		ug/L			11/27/24 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 12:07	1
Acetone	ND		15		ug/L			11/27/24 12:07	1
Acetonitrile	ND		30		ug/L			11/27/24 12:07	1
Acrolein	ND		20		ug/L			11/27/24 12:07	1
Acrylonitrile	ND		20		ug/L			11/27/24 12:07	1
Benzene	ND		1.0		ug/L			11/27/24 12:07	1
Bromobenzene	ND		1.0		ug/L			11/27/24 12:07	1
Bromoform	ND		2.0		ug/L			11/27/24 12:07	1
Bromomethane	ND		5.0		ug/L			11/27/24 12:07	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 12:07	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 12:07	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 12:07	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 12:07	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 12:07	1
Chloroethane	ND		2.0		ug/L			11/27/24 12:07	1
Chloroform	ND		1.0		ug/L			11/27/24 12:07	1
Chloromethane	ND		2.0		ug/L			11/27/24 12:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 12:07	1
Cyclohexane	ND		1.0		ug/L			11/27/24 12:07	1
Dibromomethane	ND		1.0		ug/L			11/27/24 12:07	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 12:07	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 12:07	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 12:07	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 12:07	1
Ethyl ether	ND		2.0		ug/L			11/27/24 12:07	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 12:07	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 12:07	1
Hexane	ND		2.0		ug/L			11/27/24 12:07	1
Iodomethane	ND		5.0		ug/L			11/27/24 12:07	1
Isobutanol	ND		110		ug/L			11/27/24 12:07	1
Isopropyl ether	ND		10		ug/L			11/27/24 12:07	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
Methacrylonitrile	ND		15		ug/L			11/27/24 12:07	1
Methyl acetate	ND		5.0		ug/L			11/27/24 12:07	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 12:07	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 12:07	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 12:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 12:07	1
Naphthalene	ND		3.0		ug/L			11/27/24 12:07	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 12:07	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
o-Xylene	ND		1.0		ug/L			11/27/24 12:07	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 12:07	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 12:07	1
Toluene	ND		1.0		ug/L			11/27/24 12:07	1

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

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 12:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 12:07	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 12:07	1
Trichloroethene	ND		1.0		ug/L			11/27/24 12:07	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 12:07	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 12:07	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 12:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 12:07	1
Styrene	ND		1.0		ug/L			11/27/24 12:07	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 12:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 12:07	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*11/27/24 12:07*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/27/24 12:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/27/24 12:07*	*1*

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 12:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 12:28	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 12:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 12:28	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 12:28	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 12:28	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 12:28	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 12:28	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 12:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 12:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 12:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:28	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 12:28	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 12:28	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 12:28	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 12:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:28	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 12:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:28	1
1,4-Dioxane	ND		40		ug/L			11/27/24 12:28	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 12:28	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 12:28	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 12:28	1
2-Hexanone	ND		5.0		ug/L			11/27/24 12:28	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 12:28	1

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

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 12:28	1
p-Cymene	ND		1.0		ug/L			11/27/24 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 12:28	1
Acetone	ND		15		ug/L			11/27/24 12:28	1
Acetonitrile	ND		30		ug/L			11/27/24 12:28	1
Acrolein	ND		20		ug/L			11/27/24 12:28	1
Acrylonitrile	ND		20		ug/L			11/27/24 12:28	1
Benzene	ND		1.0		ug/L			11/27/24 12:28	1
Bromobenzene	ND		1.0		ug/L			11/27/24 12:28	1
Bromoform	ND		2.0		ug/L			11/27/24 12:28	1
Bromomethane	ND		5.0		ug/L			11/27/24 12:28	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 12:28	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 12:28	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 12:28	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 12:28	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 12:28	1
Chloroethane	ND		2.0		ug/L			11/27/24 12:28	1
Chloroform	ND		1.0		ug/L			11/27/24 12:28	1
Chloromethane	ND		2.0		ug/L			11/27/24 12:28	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 12:28	1
Cyclohexane	ND		1.0		ug/L			11/27/24 12:28	1
Dibromomethane	ND		1.0		ug/L			11/27/24 12:28	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 12:28	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 12:28	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 12:28	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 12:28	1
Ethyl ether	ND		2.0		ug/L			11/27/24 12:28	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 12:28	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 12:28	1
Hexane	ND		2.0		ug/L			11/27/24 12:28	1
Iodomethane	ND		5.0		ug/L			11/27/24 12:28	1
Isobutanol	ND		110		ug/L			11/27/24 12:28	1
Isopropyl ether	ND		10		ug/L			11/27/24 12:28	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
Methacrylonitrile	ND		15		ug/L			11/27/24 12:28	1
Methyl acetate	ND		5.0		ug/L			11/27/24 12:28	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 12:28	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 12:28	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 12:28	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 12:28	1
Naphthalene	ND		3.0		ug/L			11/27/24 12:28	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 12:28	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
o-Xylene	ND		1.0		ug/L			11/27/24 12:28	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 12:28	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 12:28	1

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

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			11/27/24 12:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 12:28	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 12:28	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 12:28	1
Trichloroethene	ND		1.0		ug/L			11/27/24 12:28	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 12:28	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 12:28	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 12:28	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 12:28	1
Styrene	ND		1.0		ug/L			11/27/24 12:28	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 12:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 12:28	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*11/27/24 12:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*11/27/24 12:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*11/27/24 12:28*	*1*

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 12:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 12:49	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 12:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 12:49	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 12:49	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 12:49	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 12:49	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 12:49	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 12:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 12:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 12:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:49	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 12:49	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 12:49	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 12:49	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 12:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:49	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 12:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 12:49	1
1,4-Dioxane	ND		40		ug/L			11/27/24 12:49	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 12:49	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 12:49	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 12:49	1
2-Hexanone	ND		5.0		ug/L			11/27/24 12:49	1

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

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 12:49	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 12:49	1
p-Cymene	ND		1.0		ug/L			11/27/24 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 12:49	1
Acetone	ND		15		ug/L			11/27/24 12:49	1
Acetonitrile	ND		30		ug/L			11/27/24 12:49	1
Acrolein	ND		20		ug/L			11/27/24 12:49	1
Acrylonitrile	ND		20		ug/L			11/27/24 12:49	1
Benzene	ND		1.0		ug/L			11/27/24 12:49	1
Bromobenzene	ND		1.0		ug/L			11/27/24 12:49	1
Bromoform	ND		2.0		ug/L			11/27/24 12:49	1
Bromomethane	ND		5.0		ug/L			11/27/24 12:49	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 12:49	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 12:49	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 12:49	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 12:49	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 12:49	1
Chloroethane	ND		2.0		ug/L			11/27/24 12:49	1
Chloroform	ND		1.0		ug/L			11/27/24 12:49	1
Chloromethane	ND		2.0		ug/L			11/27/24 12:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 12:49	1
Cyclohexane	ND		1.0		ug/L			11/27/24 12:49	1
Dibromomethane	ND		1.0		ug/L			11/27/24 12:49	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 12:49	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 12:49	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 12:49	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 12:49	1
Ethyl ether	ND		2.0		ug/L			11/27/24 12:49	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 12:49	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 12:49	1
Hexane	ND		2.0		ug/L			11/27/24 12:49	1
Iodomethane	ND		5.0		ug/L			11/27/24 12:49	1
Isobutanol	ND		110		ug/L			11/27/24 12:49	1
Isopropyl ether	ND		10		ug/L			11/27/24 12:49	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
Methacrylonitrile	ND		15		ug/L			11/27/24 12:49	1
Methyl acetate	ND		5.0		ug/L			11/27/24 12:49	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 12:49	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 12:49	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 12:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 12:49	1
Naphthalene	ND		3.0		ug/L			11/27/24 12:49	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 12:49	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
o-Xylene	ND		1.0		ug/L			11/27/24 12:49	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 12:49	1

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

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 12:49	1
Toluene	ND		1.0		ug/L			11/27/24 12:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 12:49	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 12:49	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 12:49	1
Trichloroethene	ND		1.0		ug/L			11/27/24 12:49	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 12:49	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 12:49	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 12:49	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 12:49	1
Styrene	ND		1.0		ug/L			11/27/24 12:49	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 12:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 12:49	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*11/27/24 12:49*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*11/27/24 12:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*11/27/24 12:49*	*1*

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 13:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 13:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 13:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 13:10	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 13:10	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 13:10	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 13:10	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 13:10	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 13:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 13:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 13:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 13:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:10	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 13:10	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 13:10	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 13:10	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 13:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 13:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:10	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 13:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:10	1
1,4-Dioxane	ND		40		ug/L			11/27/24 13:10	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 13:10	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 13:10	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 13:10	1

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

Client Sample ID: MW-13A
Lab Sample ID: 280-199650-6
Date Collected: 11/14/24 10:01
Matrix: Water
Date Received: 11/15/24 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0		ug/L			11/27/24 13:10	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 13:10	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 13:10	1
p-Cymene	ND		1.0		ug/L			11/27/24 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 13:10	1
Acetone	ND		15		ug/L			11/27/24 13:10	1
Acetonitrile	ND		30		ug/L			11/27/24 13:10	1
Acrolein	ND		20		ug/L			11/27/24 13:10	1
Acrylonitrile	ND		20		ug/L			11/27/24 13:10	1
Benzene	ND		1.0		ug/L			11/27/24 13:10	1
Bromobenzene	ND		1.0		ug/L			11/27/24 13:10	1
Bromoform	ND		2.0		ug/L			11/27/24 13:10	1
Bromomethane	ND		5.0		ug/L			11/27/24 13:10	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 13:10	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 13:10	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 13:10	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 13:10	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 13:10	1
Chloroethane	ND		2.0		ug/L			11/27/24 13:10	1
Chloroform	ND		1.0		ug/L			11/27/24 13:10	1
Chloromethane	ND		2.0		ug/L			11/27/24 13:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 13:10	1
Cyclohexane	ND		1.0		ug/L			11/27/24 13:10	1
Dibromomethane	ND		1.0		ug/L			11/27/24 13:10	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 13:10	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 13:10	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 13:10	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 13:10	1
Ethyl ether	ND		2.0		ug/L			11/27/24 13:10	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 13:10	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 13:10	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 13:10	1
Hexane	ND		2.0		ug/L			11/27/24 13:10	1
Iodomethane	ND		5.0		ug/L			11/27/24 13:10	1
Isobutanol	ND		110		ug/L			11/27/24 13:10	1
Isopropyl ether	ND		10		ug/L			11/27/24 13:10	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 13:10	1
Methacrylonitrile	ND		15		ug/L			11/27/24 13:10	1
Methyl acetate	ND		5.0		ug/L			11/27/24 13:10	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 13:10	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 13:10	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 13:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 13:10	1
Naphthalene	ND		3.0		ug/L			11/27/24 13:10	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 13:10	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 13:10	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 13:10	1
o-Xylene	ND		1.0		ug/L			11/27/24 13:10	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 13:10	1

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

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0		ug/L			11/27/24 13:10	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 13:10	1
Toluene	ND		1.0		ug/L			11/27/24 13:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 13:10	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 13:10	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 13:10	1
Trichloroethene	ND		1.0		ug/L			11/27/24 13:10	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 13:10	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 13:10	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 13:10	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 13:10	1
Styrene	ND		1.0		ug/L			11/27/24 13:10	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 13:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 13:10	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*11/27/24 13:10*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/27/24 13:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/27/24 13:10*	*1*

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 13:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 13:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 13:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 13:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 13:31	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 13:31	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 13:31	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 13:31	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 13:31	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 13:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 13:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 13:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:31	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 13:31	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 13:31	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 13:31	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 13:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:31	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 13:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:31	1
1,4-Dioxane	ND		40		ug/L			11/27/24 13:31	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 13:31	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 13:31	1

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

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 13:31	1
2-Hexanone	ND		5.0		ug/L			11/27/24 13:31	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 13:31	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 13:31	1
p-Cymene	ND		1.0		ug/L			11/27/24 13:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 13:31	1
Acetone	ND		15		ug/L			11/27/24 13:31	1
Acetonitrile	ND		30		ug/L			11/27/24 13:31	1
Acrolein	ND		20		ug/L			11/27/24 13:31	1
Acrylonitrile	ND		20		ug/L			11/27/24 13:31	1
Benzene	ND		1.0		ug/L			11/27/24 13:31	1
Bromobenzene	ND		1.0		ug/L			11/27/24 13:31	1
Bromoform	ND		2.0		ug/L			11/27/24 13:31	1
Bromomethane	ND		5.0		ug/L			11/27/24 13:31	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 13:31	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 13:31	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 13:31	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 13:31	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 13:31	1
Chloroethane	ND		2.0		ug/L			11/27/24 13:31	1
Chloroform	ND		1.0		ug/L			11/27/24 13:31	1
Chloromethane	ND		2.0		ug/L			11/27/24 13:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 13:31	1
Cyclohexane	ND		1.0		ug/L			11/27/24 13:31	1
Dibromomethane	ND		1.0		ug/L			11/27/24 13:31	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 13:31	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 13:31	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 13:31	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 13:31	1
Ethyl ether	ND		2.0		ug/L			11/27/24 13:31	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 13:31	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 13:31	1
Hexane	ND		2.0		ug/L			11/27/24 13:31	1
Iodomethane	ND		5.0		ug/L			11/27/24 13:31	1
Isobutanol	ND		110		ug/L			11/27/24 13:31	1
Isopropyl ether	ND		10		ug/L			11/27/24 13:31	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
Methacrylonitrile	ND		15		ug/L			11/27/24 13:31	1
Methyl acetate	ND		5.0		ug/L			11/27/24 13:31	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 13:31	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 13:31	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 13:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 13:31	1
Naphthalene	ND		3.0		ug/L			11/27/24 13:31	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 13:31	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
o-Xylene	ND		1.0		ug/L			11/27/24 13:31	1

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

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 13:31	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 13:31	1
Toluene	ND		1.0		ug/L			11/27/24 13:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 13:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 13:31	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 13:31	1
Trichloroethene	ND		1.0		ug/L			11/27/24 13:31	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 13:31	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 13:31	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 13:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 13:31	1
Styrene	ND		1.0		ug/L			11/27/24 13:31	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 13:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 13:31	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*11/27/24 13:31*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*11/27/24 13:31*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/27/24 13:31*	*1*

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 13:53	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 13:53	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 13:53	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 13:53	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 13:53	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 13:53	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 13:53	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 13:53	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 13:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 13:53	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 13:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 13:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:53	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 13:53	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 13:53	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 13:53	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 13:53	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 13:53	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:53	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 13:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 13:53	1
1,4-Dioxane	ND		40		ug/L			11/27/24 13:53	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 13:53	1

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

Client Sample ID: MW-35A
Lab Sample ID: 280-199650-8
Date Collected: 11/14/24 12:20
Matrix: Water
Date Received: 11/15/24 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10		ug/L			11/27/24 13:53	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 13:53	1
2-Hexanone	ND		5.0		ug/L			11/27/24 13:53	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 13:53	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 13:53	1
p-Cymene	ND		1.0		ug/L			11/27/24 13:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 13:53	1
Acetone	ND		15		ug/L			11/27/24 13:53	1
Acetonitrile	ND		30		ug/L			11/27/24 13:53	1
Acrolein	ND		20		ug/L			11/27/24 13:53	1
Acrylonitrile	ND		20		ug/L			11/27/24 13:53	1
Benzene	ND		1.0		ug/L			11/27/24 13:53	1
Bromobenzene	ND		1.0		ug/L			11/27/24 13:53	1
Bromoform	ND		2.0		ug/L			11/27/24 13:53	1
Bromomethane	ND		5.0		ug/L			11/27/24 13:53	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 13:53	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 13:53	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 13:53	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 13:53	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 13:53	1
Chloroethane	ND		2.0		ug/L			11/27/24 13:53	1
Chloroform	ND		1.0		ug/L			11/27/24 13:53	1
Chloromethane	ND		2.0		ug/L			11/27/24 13:53	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 13:53	1
Cyclohexane	ND		1.0		ug/L			11/27/24 13:53	1
Dibromomethane	ND		1.0		ug/L			11/27/24 13:53	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 13:53	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 13:53	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 13:53	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 13:53	1
Ethyl ether	ND		2.0		ug/L			11/27/24 13:53	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 13:53	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 13:53	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 13:53	1
Hexane	ND		2.0		ug/L			11/27/24 13:53	1
Iodomethane	ND		5.0		ug/L			11/27/24 13:53	1
Isobutanol	ND		110		ug/L			11/27/24 13:53	1
Isopropyl ether	ND		10		ug/L			11/27/24 13:53	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 13:53	1
Methacrylonitrile	ND		15		ug/L			11/27/24 13:53	1
Methyl acetate	ND		5.0		ug/L			11/27/24 13:53	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 13:53	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 13:53	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 13:53	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 13:53	1
Naphthalene	ND		3.0		ug/L			11/27/24 13:53	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 13:53	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 13:53	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 13:53	1

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

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			11/27/24 13:53	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 13:53	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 13:53	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 13:53	1
Toluene	ND		1.0		ug/L			11/27/24 13:53	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 13:53	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 13:53	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 13:53	1
Trichloroethene	ND		1.0		ug/L			11/27/24 13:53	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 13:53	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 13:53	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 13:53	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 13:53	1
Styrene	ND		1.0		ug/L			11/27/24 13:53	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 13:53	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 13:53	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*11/27/24 13:53*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/27/24 13:53*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/27/24 13:53*	*1*

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 14:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 14:14	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 14:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 14:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 14:14	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 14:14	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 14:14	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 14:14	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 14:14	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 14:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 14:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 14:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 14:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 14:14	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 14:14	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 14:14	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 14:14	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 14:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 14:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 14:14	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 14:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 14:14	1
1,4-Dioxane	ND		40		ug/L			11/27/24 14:14	1

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

Client Sample ID: MW-33A
Lab Sample ID: 280-199650-9
Date Collected: 11/14/24 14:00
Matrix: Water
Date Received: 11/15/24 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 14:14	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 14:14	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 14:14	1
2-Hexanone	ND		5.0		ug/L			11/27/24 14:14	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 14:14	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 14:14	1
p-Cymene	ND		1.0		ug/L			11/27/24 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 14:14	1
Acetone	ND		15		ug/L			11/27/24 14:14	1
Acetonitrile	ND		30		ug/L			11/27/24 14:14	1
Acrolein	ND		20		ug/L			11/27/24 14:14	1
Acrylonitrile	ND		20		ug/L			11/27/24 14:14	1
Benzene	ND		1.0		ug/L			11/27/24 14:14	1
Bromobenzene	ND		1.0		ug/L			11/27/24 14:14	1
Bromoform	ND		2.0		ug/L			11/27/24 14:14	1
Bromomethane	ND		5.0		ug/L			11/27/24 14:14	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 14:14	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 14:14	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 14:14	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 14:14	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 14:14	1
Chloroethane	ND		2.0		ug/L			11/27/24 14:14	1
Chloroform	ND		1.0		ug/L			11/27/24 14:14	1
Chloromethane	ND		2.0		ug/L			11/27/24 14:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 14:14	1
Cyclohexane	ND		1.0		ug/L			11/27/24 14:14	1
Dibromomethane	ND		1.0		ug/L			11/27/24 14:14	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 14:14	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 14:14	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 14:14	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 14:14	1
Ethyl ether	ND		2.0		ug/L			11/27/24 14:14	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 14:14	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 14:14	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 14:14	1
Hexane	ND		2.0		ug/L			11/27/24 14:14	1
Iodomethane	ND		5.0		ug/L			11/27/24 14:14	1
Isobutanol	ND		110		ug/L			11/27/24 14:14	1
Isopropyl ether	ND		10		ug/L			11/27/24 14:14	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 14:14	1
Methacrylonitrile	ND		15		ug/L			11/27/24 14:14	1
Methyl acetate	ND		5.0		ug/L			11/27/24 14:14	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 14:14	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 14:14	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 14:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 14:14	1
Naphthalene	ND		3.0		ug/L			11/27/24 14:14	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 14:14	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 14:14	1

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

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			11/27/24 14:14	1
o-Xylene	ND		1.0		ug/L			11/27/24 14:14	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 14:14	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 14:14	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 14:14	1
Toluene	ND		1.0		ug/L			11/27/24 14:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 14:14	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 14:14	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 14:14	1
Trichloroethene	ND		1.0		ug/L			11/27/24 14:14	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 14:14	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 14:14	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 14:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 14:14	1
Styrene	ND		1.0		ug/L			11/27/24 14:14	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 14:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 14:14	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*11/27/24 14:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/27/24 14:14*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*11/27/24 14:14*	*1*

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 14:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 14:35	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 14:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 14:35	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 14:35	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 14:35	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 14:35	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 14:35	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 14:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 14:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 14:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 14:35	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 14:35	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 14:35	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 14:35	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 14:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 14:35	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 14:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 14:35	1

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

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		40		ug/L			11/27/24 14:35	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 14:35	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 14:35	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 14:35	1
2-Hexanone	ND		5.0		ug/L			11/27/24 14:35	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 14:35	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 14:35	1
p-Cymene	ND		1.0		ug/L			11/27/24 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 14:35	1
Acetone	ND		15		ug/L			11/27/24 14:35	1
Acetonitrile	ND		30		ug/L			11/27/24 14:35	1
Acrolein	ND		20		ug/L			11/27/24 14:35	1
Acrylonitrile	ND		20		ug/L			11/27/24 14:35	1
Benzene	ND		1.0		ug/L			11/27/24 14:35	1
Bromobenzene	ND		1.0		ug/L			11/27/24 14:35	1
Bromoform	ND		2.0		ug/L			11/27/24 14:35	1
Bromomethane	ND		5.0		ug/L			11/27/24 14:35	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 14:35	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 14:35	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 14:35	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 14:35	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 14:35	1
Chloroethane	ND		2.0		ug/L			11/27/24 14:35	1
Chloroform	ND		1.0		ug/L			11/27/24 14:35	1
Chloromethane	ND		2.0		ug/L			11/27/24 14:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 14:35	1
Cyclohexane	ND		1.0		ug/L			11/27/24 14:35	1
Dibromomethane	ND		1.0		ug/L			11/27/24 14:35	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 14:35	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 14:35	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 14:35	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 14:35	1
Ethyl ether	ND		2.0		ug/L			11/27/24 14:35	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 14:35	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 14:35	1
Hexane	ND		2.0		ug/L			11/27/24 14:35	1
Iodomethane	ND		5.0		ug/L			11/27/24 14:35	1
Isobutanol	ND		110		ug/L			11/27/24 14:35	1
Isopropyl ether	ND		10		ug/L			11/27/24 14:35	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
Methacrylonitrile	ND		15		ug/L			11/27/24 14:35	1
Methyl acetate	ND		5.0		ug/L			11/27/24 14:35	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 14:35	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 14:35	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 14:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 14:35	1
Naphthalene	ND		3.0		ug/L			11/27/24 14:35	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 14:35	1

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

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
o-Xylene	ND		1.0		ug/L			11/27/24 14:35	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 14:35	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 14:35	1
Toluene	ND		1.0		ug/L			11/27/24 14:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 14:35	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 14:35	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 14:35	1
Trichloroethene	ND		1.0		ug/L			11/27/24 14:35	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 14:35	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 14:35	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 14:35	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 14:35	1
Styrene	ND		1.0		ug/L			11/27/24 14:35	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 14:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 14:35	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*11/27/24 14:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/27/24 14:35*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*11/27/24 14:35*	*1*

Client Sample ID: TRIP BLANKS
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 07:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 07:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 07:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 07:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 07:54	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 07:54	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 07:54	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 07:54	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 07:54	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 07:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 07:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 07:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 07:54	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 07:54	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 07:54	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 07:54	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 07:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 07:54	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 07:54	1

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

Client Sample ID: TRIP BLANKS
Lab Sample ID: 280-199650-11
Date Collected: 11/14/24 10:01
Matrix: Water
Date Received: 11/15/24 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 07:54	1
1,4-Dioxane	ND		40		ug/L			11/27/24 07:54	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 07:54	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 07:54	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 07:54	1
2-Hexanone	ND		5.0		ug/L			11/27/24 07:54	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 07:54	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 07:54	1
p-Cymene	ND		1.0		ug/L			11/27/24 07:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 07:54	1
Acetone	ND		15		ug/L			11/27/24 07:54	1
Acetonitrile	ND		30		ug/L			11/27/24 07:54	1
Acrolein	ND		20		ug/L			11/27/24 07:54	1
Acrylonitrile	ND		20		ug/L			11/27/24 07:54	1
Benzene	ND		1.0		ug/L			11/27/24 07:54	1
Bromobenzene	ND		1.0		ug/L			11/27/24 07:54	1
Bromoform	ND		2.0		ug/L			11/27/24 07:54	1
Bromomethane	ND		5.0		ug/L			11/27/24 07:54	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 07:54	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 07:54	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 07:54	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 07:54	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 07:54	1
Chloroethane	ND		2.0		ug/L			11/27/24 07:54	1
Chloroform	ND		1.0		ug/L			11/27/24 07:54	1
Chloromethane	ND		2.0		ug/L			11/27/24 07:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 07:54	1
Cyclohexane	ND		1.0		ug/L			11/27/24 07:54	1
Dibromomethane	ND		1.0		ug/L			11/27/24 07:54	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 07:54	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 07:54	1
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 07:54	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 07:54	1
Ethyl ether	ND		2.0		ug/L			11/27/24 07:54	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 07:54	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 07:54	1
Hexane	ND		2.0		ug/L			11/27/24 07:54	1
Iodomethane	ND		5.0		ug/L			11/27/24 07:54	1
Isobutanol	ND		110		ug/L			11/27/24 07:54	1
Isopropyl ether	ND		10		ug/L			11/27/24 07:54	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
Methacrylonitrile	ND		15		ug/L			11/27/24 07:54	1
Methyl acetate	ND		5.0		ug/L			11/27/24 07:54	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 07:54	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 07:54	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 07:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 07:54	1
Naphthalene	ND		3.0		ug/L			11/27/24 07:54	1

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

Client Sample ID: TRIP BLANKS
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl alcohol, n-	ND		60		ug/L			11/27/24 07:54	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
o-Xylene	ND		1.0		ug/L			11/27/24 07:54	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 07:54	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 07:54	1
Toluene	ND		1.0		ug/L			11/27/24 07:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 07:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 07:54	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 07:54	1
Trichloroethene	ND		1.0		ug/L			11/27/24 07:54	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 07:54	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 07:54	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 07:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 07:54	1
Styrene	ND		1.0		ug/L			11/27/24 07:54	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 07:54	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 07:54	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 07:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*11/27/24 07:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*11/27/24 07:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*11/27/24 07:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
5-Nitro-o-toluidine	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosomethylethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosodimethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Methyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosodiethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Ethyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Phenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Chlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Benzyl alcohol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Acetophenone	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosopyrrolidine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Hexachloroethane	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Nitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosopiperidine	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,4-Dimethylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Nitrophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,4-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
4-Chloroaniline	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,6-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Hexachloropropene	ND		100		ug/L		11/19/24 11:40	11/20/24 12:32	1
Hexachlorobutadiene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
4-Chloro-3-methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Safrole	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Methylnaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Isosafrole	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Hexachlorocyclopentadiene	ND	*+	50		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,4,6-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,4,5-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Chloronaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
1,4-Naphthoquinone	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Dimethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
1,3-Dinitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,6-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Acenaphthylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
3-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Acenaphthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,4-Dinitrophenol	ND		30		ug/L		11/19/24 11:40	11/20/24 12:32	1
4-Nitrophenol	ND		25		ug/L		11/19/24 11:40	11/20/24 12:32	1
Dibenzofuran	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,4-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Pentachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
1-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Diethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Fluorene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
4-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
N-Nitrosodiphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Diphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
1,3,5-Trinitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Diallate	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
Phenacetin	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
4-Bromophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Hexachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
4-Aminobiphenyl	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
Pentachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Pentachloronitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Phenanthrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Methyl parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Di-n-butyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Methapyrilene	ND	*-	50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Isodrin	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Butyl benzyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Famphur	ND		100		ug/L		11/19/24 11:40	11/20/24 12:32	1
2-Acetylaminofluorene	ND		100		ug/L		11/19/24 11:40	11/20/24 12:32	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
3,3'-Dichlorobenzidine	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
Benz(a)anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Chrysene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Di-n-octyl phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Benzo(b)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
Benzo(k)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
Benzo(a)pyrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
3-Methylcholanthrene	ND		20		ug/L		11/19/24 11:40	11/20/24 12:32	1
Dibenz(a,h)anthracene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Benzo(ghi)perylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 12:32	1
bis(2-Chloroethyl) ether	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
o-Toluidine	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Chlorobenzilate	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1
Parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 12:32	1
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		11/19/24 11:40	11/20/24 12:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
p-phenylenediamine TIC	*ND*		*ug/L*			*106-50-3*	*11/19/24 11:40*	*11/20/24 12:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*45*		*13 - 120*	*11/19/24 11:40*	*11/20/24 12:32*	*1*
Phenol-d5	*27*		*10 - 120*	*11/19/24 11:40*	*11/20/24 12:32*	*1*
Nitrobenzene-d5	*62*		*34 - 120*	*11/19/24 11:40*	*11/20/24 12:32*	*1*
2-Fluorobiphenyl	*57*		*28 - 120*	*11/19/24 11:40*	*11/20/24 12:32*	*1*
2,4,6-Tribromophenol	*67*		*22 - 140*	*11/19/24 11:40*	*11/20/24 12:32*	*1*
Terphenyl-d14	*93*		*55 - 142*	*11/19/24 11:40*	*11/20/24 12:32*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
4,4'-DDE	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
4,4'-DDT	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Aldrin	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
alpha-BHC	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
cis-Chlordane	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
beta-BHC	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
delta-BHC	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Dieldrin	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Endosulfan I	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Endosulfan II	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Endosulfan sulfate	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Endrin	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Endrin aldehyde	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
gamma-BHC (Lindane)	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
trans-Chlordane	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Heptachlor	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Heptachlor epoxide	ND		0.048		ug/L		11/18/24 11:16	11/20/24 04:30	1
Kepone	ND		0.96		ug/L		11/18/24 11:16	11/20/24 04:30	1
Methoxychlor	ND		0.096		ug/L		11/18/24 11:16	11/20/24 04:30	1
Toxaphene	ND		1.9		ug/L		11/18/24 11:16	11/20/24 04:30	1
Technical Chlordane	ND		0.48		ug/L		11/18/24 11:16	11/20/24 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*10 - 157*	*11/18/24 11:16*	*11/20/24 04:30*	*1*
Tetrachloro-m-xylene	*80*		*12 - 129*	*11/18/24 11:16*	*11/20/24 04:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.96		ug/L		11/18/24 11:16	11/19/24 18:27	1
Aroclor 1221	ND		0.96		ug/L		11/18/24 11:16	11/19/24 18:27	1
Aroclor 1232	ND		0.96		ug/L		11/18/24 11:16	11/19/24 18:27	1
Aroclor 1242	ND		0.96		ug/L		11/18/24 11:16	11/19/24 18:27	1
Aroclor 1248	ND		0.96		ug/L		11/18/24 11:16	11/19/24 18:27	1
Aroclor 1254	ND		0.96		ug/L		11/18/24 11:16	11/19/24 18:27	1
Aroclor 1260	ND		0.96		ug/L		11/18/24 11:16	11/19/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*30 - 136*	*11/18/24 11:16*	*11/19/24 18:27*	*1*
Tetrachloro-m-xylene	*93*		*25 - 120*	*11/18/24 11:16*	*11/19/24 18:27*	*1*

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		11/19/24 11:36	11/20/24 14:10	1
Disulfoton	ND		0.97		ug/L		11/19/24 11:36	11/20/24 14:10	1
Phorate	ND		1.2		ug/L		11/19/24 11:36	11/20/24 14:10	1
Thionazin	ND		0.97		ug/L		11/19/24 11:36	11/20/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*79*		*27 - 120*	*11/19/24 11:36*	*11/20/24 14:10*	*1*
Triphenylphosphate	*108*		*42 - 120*	*11/19/24 11:36*	*11/20/24 14:10*	*1*

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.95		ug/L		11/19/24 14:58	11/20/24 13:41	1
2,4-D	ND		3.8		ug/L		11/19/24 14:58	11/20/24 13:41	1
Dinoseb	ND	*- *1	0.95		ug/L		11/19/24 14:58	11/20/24 13:41	1
2,4,5-TP (Silvex)	ND		0.95		ug/L		11/19/24 14:58	11/20/24 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*65*		*34 - 142*	*11/19/24 14:58*	*11/20/24 13:41*	*1*
2,4-Dichlorophenylacetic acid	*56*		*34 - 142*	*11/19/24 14:58*	*11/20/24 13:41*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 23:23	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/18/24 23:23	1

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 23:29	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/18/24 23:29	1

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 23:35	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/18/24 23:35	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	**0.0079**		0.0030		mg/L		11/18/24 08:31	11/18/24 23:41	1
Iron, Total	**35**		0.060		mg/L		11/18/24 08:31	11/18/24 23:41	1

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 23:47	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/18/24 23:47	1

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 23:53	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/18/24 23:53	1

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 23:58	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/18/24 23:58	1

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/19/24 00:04	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/19/24 00:04	1

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/19/24 00:09	1
Iron, Total	**1.3**		0.060		mg/L		11/18/24 08:31	11/19/24 00:09	1

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/19/24 00:31	1
Iron, Total	**0.26**		0.060		mg/L		11/18/24 08:31	11/19/24 00:31	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**14**		0.20		mg/L		11/18/24 08:31	11/28/24 03:29	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 03:29	1
Magnesium, Dissolved	**8.9**		0.050		mg/L		11/18/24 08:31	11/28/24 03:29	1
Potassium, Dissolved	**1.0**		1.0		mg/L		11/18/24 08:31	11/28/24 03:29	1
Sodium, Dissolved	**5.2**		1.0		mg/L		11/18/24 08:31	11/28/24 03:29	1

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**10**		0.20		mg/L		11/18/24 08:31	11/28/24 03:44	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 03:44	1
Magnesium, Dissolved	**6.9**		0.050		mg/L		11/18/24 08:31	11/28/24 03:44	1
Potassium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 03:44	1
Sodium, Dissolved	**6.4**		1.0		mg/L		11/18/24 08:31	11/28/24 03:44	1

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**9.9**		0.20		mg/L		11/18/24 08:31	11/28/24 03:47	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 03:47	1
Magnesium, Dissolved	**6.7**		0.050		mg/L		11/18/24 08:31	11/28/24 03:47	1
Potassium, Dissolved	**1.1**		1.0		mg/L		11/18/24 08:31	11/28/24 03:47	1
Sodium, Dissolved	**6.2**		1.0		mg/L		11/18/24 08:31	11/28/24 03:47	1

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**14**		0.20		mg/L		11/18/24 08:31	11/28/24 03:51	1
Iron, Dissolved	**39**		0.060		mg/L		11/18/24 08:31	11/28/24 03:51	1
Magnesium, Dissolved	**8.6**		0.050		mg/L		11/18/24 08:31	11/28/24 03:51	1
Potassium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 03:51	1
Sodium, Dissolved	**9.2**		1.0		mg/L		11/18/24 08:31	11/28/24 03:51	1

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**13**		0.20		mg/L		11/18/24 08:31	11/28/24 03:55	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 03:55	1
Magnesium, Dissolved	**7.1**		0.050		mg/L		11/18/24 08:31	11/28/24 03:55	1
Potassium, Dissolved	**1.0**		1.0		mg/L		11/18/24 08:31	11/28/24 03:55	1
Sodium, Dissolved	**5.4**		1.0		mg/L		11/18/24 08:31	11/28/24 03:55	1

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**17**		0.20		mg/L		11/18/24 08:31	11/28/24 03:58	1

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 03:58	1
Magnesium, Dissolved	**9.6**		0.050		mg/L		11/18/24 08:31	11/28/24 03:58	1
Potassium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 03:58	1
Sodium, Dissolved	**5.3**		1.0		mg/L		11/18/24 08:31	11/28/24 03:58	1

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**18**		0.20		mg/L		11/18/24 08:31	11/28/24 04:02	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 04:02	1
Magnesium, Dissolved	**8.9**		0.050		mg/L		11/18/24 08:31	11/28/24 04:02	1
Potassium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 04:02	1
Sodium, Dissolved	**5.2**		1.0		mg/L		11/18/24 08:31	11/28/24 04:02	1

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**16**		0.20		mg/L		11/18/24 08:31	11/28/24 04:06	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 04:06	1
Magnesium, Dissolved	**9.4**		0.050		mg/L		11/18/24 08:31	11/28/24 04:06	1
Potassium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 04:06	1
Sodium, Dissolved	**5.3**		1.0		mg/L		11/18/24 08:31	11/28/24 04:06	1

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**11**		0.20		mg/L		11/18/24 08:31	11/28/24 04:09	1
Iron, Dissolved	**0.13**		0.060		mg/L		11/18/24 08:31	11/28/24 04:09	1
Magnesium, Dissolved	**4.9**		0.050		mg/L		11/18/24 08:31	11/28/24 04:09	1
Potassium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 04:09	1
Sodium, Dissolved	**3.2**		1.0		mg/L		11/18/24 08:31	11/28/24 04:09	1

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**18**		0.20		mg/L		11/18/24 08:31	11/28/24 04:13	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 04:13	1
Magnesium, Dissolved	**7.3**		0.050		mg/L		11/18/24 08:31	11/28/24 04:13	1
Potassium, Dissolved	**1.4**		1.0		mg/L		11/18/24 08:31	11/28/24 04:13	1
Sodium, Dissolved	**4.1**		1.0		mg/L		11/18/24 08:31	11/28/24 04:13	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:03	1
Barium, Total	**0.0046**		0.0010		mg/L		11/18/24 08:31	11/18/24 22:03	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:03	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:03	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 22:03	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:04	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:03	1
Manganese, Total	**0.0026**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:04	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:03	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:03	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:04	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:03	1
Vanadium, Total	**0.0029**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:03	1
Zinc, Total	ND		0.0050		mg/L		12/06/24 07:59	12/09/24 17:27	1

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:07	1
Barium, Total	**0.0021**		0.0010		mg/L		11/18/24 08:31	11/18/24 22:07	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:07	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:07	1
Chromium, Total	**0.0095**		0.0030		mg/L		11/18/24 08:31	11/18/24 22:07	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:08	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:07	1
Manganese, Total	ND		0.0010		mg/L		11/18/24 08:31	11/19/24 22:08	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:07	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:07	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:08	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:07	1
Vanadium, Total	**0.0025**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:07	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:07	1

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:18	1
Barium, Total	**0.0024**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:19	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:18	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:18	1
Chromium, Total	**0.0094**		0.0030		mg/L		11/18/24 08:31	11/18/24 22:18	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:19	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:18	1
Manganese, Total	ND		0.0010		mg/L		11/18/24 08:31	11/19/24 22:19	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:18	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:18	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:19	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:18	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium, Total	**0.0023**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:18	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:18	1

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:21	1
Barium, Total	**0.014**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:23	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:21	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:21	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 22:21	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:23	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:21	1
Manganese, Total	**0.45**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:23	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:21	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:21	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:23	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:21	1
Vanadium, Total	ND		0.0020		mg/L		11/18/24 08:31	11/18/24 22:21	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:21	1

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:25	1
Barium, Total	**0.0039**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:26	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:25	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:25	1
Chromium, Total	**0.0081**		0.0030		mg/L		11/18/24 08:31	11/19/24 22:26	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:26	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:25	1
Manganese, Total	ND		0.0010		mg/L		11/18/24 08:31	11/19/24 22:26	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:25	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:25	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:26	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:25	1
Vanadium, Total	**0.0032**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:25	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:25	1

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:28	1
Barium, Total	**0.0030**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:30	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:28	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:28	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 22:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:30	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:28	1
Manganese, Total	ND		0.0010		mg/L		11/18/24 08:31	11/19/24 22:30	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:28	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:28	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:30	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:28	1
Vanadium, Total	**0.0034**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:28	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:28	1

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:32	1
Barium, Total	**0.0036**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:33	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:32	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:32	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 22:32	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:33	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:32	1
Manganese, Total	ND		0.0010		mg/L		11/18/24 08:31	11/19/24 22:33	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:32	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:32	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:33	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:32	1
Vanadium, Total	**0.0053**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:32	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:32	1

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:35	1
Barium, Total	**0.0032**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:37	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:35	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:35	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 22:35	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:37	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:35	1
Manganese, Total	ND		0.0010		mg/L		11/18/24 08:31	11/19/24 22:37	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:35	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:35	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:37	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:35	1
Vanadium, Total	**0.0041**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:35	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:35	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:39	1
Barium, Total	**0.0023**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:41	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:39	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:39	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 22:39	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:41	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:39	1
Manganese, Total	**0.038**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:41	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:39	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:39	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:41	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:39	1
Vanadium, Total	**0.0022**		0.0020		mg/L		11/18/24 08:31	11/18/24 22:39	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:39	1

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:43	1
Barium, Total	**0.0050**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:44	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:43	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 22:43	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 22:43	1
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:44	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:43	1
Manganese, Total	**0.22**		0.0010		mg/L		11/18/24 08:31	11/19/24 22:44	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/18/24 22:43	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:43	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 22:44	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 22:43	1
Vanadium, Total	ND		0.0020		mg/L		11/18/24 08:31	11/18/24 22:43	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 22:43	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.0025**		0.0010		mg/L		11/18/24 08:31	11/20/24 12:54	1

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 12:57	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 13:04	1

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.51**		0.0010		mg/L		11/18/24 08:31	11/20/24 13:28	1

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 13:30	1

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 13:33	1

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 13:35	1

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 13:38	1

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.030**		0.0010		mg/L		11/18/24 08:31	11/20/24 13:40	1

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.14**		0.0010		mg/L		11/18/24 08:31	11/20/24 13:43	1

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/27/24 09:10	11/27/24 14:20	1

General Chemistry

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010		mg/L			11/20/24 14:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**3.0**		3.0		mg/L			11/19/24 22:04	1
Sulfate (EPA 300.0)	**5.4**		5.0		mg/L			11/17/24 03:59	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 16:54	1
Nitrate as N (EPA 353.2)	**0.15**		0.050		mg/L			11/18/24 00:35	1
Total Sulfide (SW846 9034)	ND		4.0		mg/L		11/20/24 12:46	11/20/24 13:13	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**73**		10		mg/L			11/21/24 03:03	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**73**		10		mg/L			11/21/24 03:03	1
Total Dissolved Solids (TDS) (SM 2540C)	**120**		5.0		mg/L			11/21/24 09:22	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			11/27/24 00:51	1

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/17/24 03:15	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 03:15	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:20	1
Nitrate as N (EPA 353.2)	**0.46**		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**59**		10		mg/L			11/21/24 03:12	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**59**		10		mg/L			11/21/24 03:12	1
Total Dissolved Solids (TDS) (SM 2540C)	**100**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	**1.0**		1.0		mg/L			11/27/24 06:45	1

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/18/24 19:30	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 04:10	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:22	1
Nitrate as N (EPA 353.2)	**0.47**		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**62**		10		mg/L			11/21/24 03:16	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**62**		10		mg/L			11/21/24 03:16	1
Total Dissolved Solids (TDS) (SM 2540C)	**100**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 10:59	1
Total Organic Carbon - Average (SM 5310B)	**1.1**		1.0		mg/L			11/27/24 07:28	1

General Chemistry

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**5.1**		3.0		mg/L			11/18/24 19:41	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 01:47	1
Ammonia (as N) (EPA 350.1)	**0.42**		0.030		mg/L			11/22/24 17:24	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**84**		10		mg/L			11/21/24 03:21	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**84**		10		mg/L			11/21/24 03:21	1
Total Dissolved Solids (TDS) (SM 2540C)	**130**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	**15**		4.0		mg/L			11/20/24 11:00	1
Total Organic Carbon - Average (SM 5310B)	**2.8**		1.0		mg/L			11/26/24 22:40	1

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/18/24 19:52	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 02:09	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:27	1
Nitrate as N (EPA 353.2)	**0.13**		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**65**		10		mg/L			11/21/24 03:25	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**65**		10		mg/L			11/21/24 03:25	1
Total Dissolved Solids (TDS) (SM 2540C)	**100**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 11:00	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			11/27/24 02:34	1

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/18/24 20:03	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 01:58	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:29	1
Nitrate as N (EPA 353.2)	**0.55**		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**87**		10		mg/L			11/21/24 03:30	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**87**		10		mg/L			11/21/24 03:30	1
Total Dissolved Solids (TDS) (SM 2540C)	**110**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 11:00	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			11/27/24 08:58	1

General Chemistry

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**6.3**		3.0		mg/L			11/17/24 01:36	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 01:36	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:31	1
Nitrate as N (EPA 353.2)	**0.45**		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**87**		10		mg/L			11/21/24 19:57	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**87**		10		mg/L			11/21/24 19:57	1
Total Dissolved Solids (TDS) (SM 2540C)	**110**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 11:00	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			11/27/24 09:13	1

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/18/24 21:22	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 01:14	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:33	1
Nitrate as N (EPA 353.2)	**0.43**		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**81**		10		mg/L			11/21/24 20:02	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**81**		10		mg/L			11/21/24 20:02	1
Total Dissolved Solids (TDS) (SM 2540C)	**100**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 11:00	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			11/27/24 09:28	1

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/18/24 21:34	1
Sulfate (EPA 300.0)	ND		5.0		mg/L			11/17/24 01:03	1
Ammonia (as N) (EPA 350.1)	**0.049**		0.030		mg/L			11/22/24 17:35	1
Nitrate as N (EPA 353.2)	**0.22**		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**48**		10		mg/L			11/21/24 20:06	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**48**		10		mg/L			11/21/24 20:06	1
Total Dissolved Solids (TDS) (SM 2540C)	**81**		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/20/24 11:00	1
Total Organic Carbon - Average (SM 5310B)	**3.1**		1.0		mg/L			11/27/24 09:42	1

General Chemistry

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.2		3.0		mg/L			11/18/24 21:45	1
Sulfate (EPA 300.0)	8.6		5.0		mg/L			11/17/24 01:25	1
Ammonia (as N) (EPA 350.1)	ND		0.030		mg/L			11/22/24 17:38	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			11/18/24 00:35	1
Alkalinity, Total (As CaCO3) (SM 2320B)	70		10		mg/L			11/21/24 20:11	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	70		10		mg/L			11/21/24 20:11	1
Total Dissolved Solids (TDS) (SM 2540C)	100		5.0		mg/L			11/20/24 09:14	1
Total Suspended Solids (SM 2540D)	4.4		4.0		mg/L			11/20/24 11:00	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			11/27/24 09:57	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	19.21				ft			11/14/24 12:50	1
Specific Conductivity	159				umhos/cm			11/14/24 12:50	1
Dissolved Oxygen	0.8				mg/L			11/14/24 12:50	1
eH	20.7				millivolts			11/14/24 12:50	1
Turbidity	3.0				NTU			11/14/24 12:50	1
Temperature	10.0				Degrees C			11/14/24 12:50	1
pH	6.36				SU			11/14/24 12:50	1

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	31.70				ft			11/14/24 13:50	1
Specific Conductivity	125				umhos/cm			11/14/24 13:50	1
Dissolved Oxygen	4.0				mg/L			11/14/24 13:50	1
eH	105.7				millivolts			11/14/24 13:50	1
Turbidity	2.7				NTU			11/14/24 13:50	1
Temperature	9.6				Degrees C			11/14/24 13:50	1
pH	5.92				SU			11/14/24 13:50	1

Client Sample ID: MW-39
Date Collected: 11/14/24 14:25
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	21.04				ft			11/14/24 15:25	1
Specific Conductivity	271				umhos/cm			11/14/24 15:25	1
Dissolved Oxygen	0.5				mg/L			11/14/24 15:25	1
eH	-60.8				millivolts			11/14/24 15:25	1
Turbidity	3.8				NTU			11/14/24 15:25	1
Temperature	11.7				Degrees C			11/14/24 15:25	1
pH	6.03				SU			11/14/24 15:25	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-35
Date Collected: 11/14/24 11:33
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	61.72				ft			11/14/24 12:33	1
Specific Conductivity	189				umhos/cm			11/14/24 12:33	1
Dissolved Oxygen	7.8				mg/L			11/14/24 12:33	1
eH	377.6				millivolts			11/14/24 12:33	1
Turbidity	4.5				NTU			11/14/24 12:33	1
Temperature	9.2				Degrees C			11/14/24 12:33	1
pH	6.11				SU			11/14/24 12:33	1

Client Sample ID: MW-13A
Date Collected: 11/14/24 10:01
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	48.40				ft			11/14/24 11:01	1
Specific Conductivity	239				umhos/cm			11/14/24 11:01	1
Dissolved Oxygen	6.8				mg/L			11/14/24 11:01	1
eH	348.5				millivolts			11/14/24 11:01	1
Turbidity	3.7				NTU			11/14/24 11:01	1
Temperature	9.1				Degrees C			11/14/24 11:01	1
pH	6.57				SU			11/14/24 11:01	1

Client Sample ID: MW-13B
Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-7
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	62.21				ft			11/14/24 11:41	1
Specific Conductivity	236				umhos/cm			11/14/24 11:41	1
Dissolved Oxygen	7.4				mg/L			11/14/24 11:41	1
eH	345.0				millivolts			11/14/24 11:41	1
Turbidity	4.2				NTU			11/14/24 11:41	1
Temperature	9.2				Degrees C			11/14/24 11:41	1
pH	7.21				SU			11/14/24 11:41	1

Client Sample ID: MW-35A
Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-8
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	73.31				ft			11/14/24 13:20	1
Specific Conductivity	226				umhos/cm			11/14/24 13:20	1
Dissolved Oxygen	6.9				mg/L			11/14/24 13:20	1
eH	356.6				millivolts			11/14/24 13:20	1
Turbidity	5.0				NTU			11/14/24 13:20	1
Temperature	10.1				Degrees C			11/14/24 13:20	1
pH	7.03				SU			11/14/24 13:20	1

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	3.93				ft			11/14/24 15:00	1
Specific Conductivity	151				umhos/cm			11/14/24 15:00	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-33A
Date Collected: 11/14/24 14:00
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Oxygen	1.2				mg/L			11/14/24 15:00	1
eH	304.1				millivolts			11/14/24 15:00	1
Turbidity	9.1				NTU			11/14/24 15:00	1
Temperature	9.7				Degrees C			11/14/24 15:00	1
pH	6.02				SU			11/14/24 15:00	1

Client Sample ID: MW-33C
Date Collected: 11/14/24 14:47
Date Received: 11/15/24 09:10
Lab Sample ID: 280-199650-10
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	1.69				ft			11/14/24 15:47	1
Specific Conductivity	216				umhos/cm			11/14/24 15:47	1
Dissolved Oxygen	0.9				mg/L			11/14/24 15:47	1
eH	286.1				millivolts			11/14/24 15:47	1
Turbidity	7.1				NTU			11/14/24 15:47	1
Temperature	9.1				Degrees C			11/14/24 15:47	1
pH	7.18				SU			11/14/24 15:47	1

Surrogate Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Job ID: 280-199650-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
280-199650-1	MW-15R	101	94	98	102
480-225549-A-4 MS	Matrix Spike	100	97	106	
480-225549-A-4 MSD	Matrix Spike Duplicate	104	96	105	
LCS 480-732871/6	Lab Control Sample	100	97	99	101
MB 480-732871/8	Method Blank	95	93	103	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(80-125)
280-199650-1	MW-15R	90	98	97
280-199650-2	MW-36A	90	98	97
280-199650-3	DUP2	88	96	97
280-199650-4	MW-39	90	97	98
280-199650-5	MW-35	90	98	99
280-199650-6	MW-13A	92	96	97
280-199650-7	MW-13B	91	98	97
280-199650-8	MW-35A	89	96	97
280-199650-9	MW-33A	92	96	96
280-199650-10	MW-33C	89	96	98
280-199650-11	TRIP BLANKS	89	97	99
LCS 280-676768/4	Lab Control Sample	89	97	97
LCS 280-676768/6	Lab Control Sample	91	98	96
LCSD 280-676768/5	Lab Control Sample Dup	94	96	97
LCSD 280-676768/7	Lab Control Sample Dup	88	98	99
MB 280-676768/9	Method Blank	90	96	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DBFM
Lab Sample ID	Client Sample ID	(77-120)
280-199650-1	MW-15R	95
280-199650-2	MW-36A	95
280-199650-3	DUP2	94
280-199650-4	MW-39	95
280-199650-5	MW-35	95

Surrogate Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DBFM (77-120)						
280-199650-6	MW-13A	94						
280-199650-7	MW-13B	95						
280-199650-8	MW-35A	95						
280-199650-9	MW-33A	95						
280-199650-10	MW-33C	94						
280-199650-11	TRIP BLANKS	97						
LCS 280-675316/1002	Lab Control Sample	99						
LCSD 280-675316/3	Lab Control Sample Dup	99						
MB 280-675316/5	Method Blank	97						

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	2FP (13-120)	PHL (10-120)	NBZ (34-120)	FBP (28-120)	TBP (22-140)	TPHL (55-142)	
280-199650-1	MW-15R	45	27	62	57	67	93	
LCS 280-675636/2-A	Lab Control Sample	44	31	79	75	98	97	
LCSD 280-675636/3-A	Lab Control Sample Dup	38	26	77	69	95	96	
MB 280-675636/1-A	Method Blank	40	25	71	57	73	98	

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCBP1 (10-157)	TCX1 (12-129)					
280-199650-1	MW-15R	87	80					
LCS 280-675458/2-A	Lab Control Sample	92	92					
LCS 280-675458/6-A	Lab Control Sample	86	87					
LCS 280-675458/8-A	Lab Control Sample	87	94					
LCSD 280-675458/3-A	Lab Control Sample Dup	92	93					
LCSD 280-675458/7-A	Lab Control Sample Dup	86	92					
LCSD 280-675458/9-A	Lab Control Sample Dup	95	98					
MB 280-675458/1-A	Method Blank	85	98					

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(30-136)	(25-120)
280-199650-1	MW-15R	100	93
LCS 280-675458/4-A	Lab Control Sample	98	110
LCSD 280-675458/5-A	Lab Control Sample Dup	101	112
MB 280-675458/1-A	Method Blank	96	112

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		CMF1	TPP1
Lab Sample ID	Client Sample ID	(27-120)	(42-120)
280-199650-1	MW-15R	79	108
LCS 280-675621/2-A	Lab Control Sample	83	111
LCSD 280-675621/3-A	Lab Control Sample Dup	85	114
MB 280-675621/1-A	Method Blank	83	96

Surrogate Legend

CMF = Chlormefos
TPP = Triphenylphosphate

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(34-142)	(34-142)
280-199650-1	MW-15R	65	56
LCS 410-576900/2-A	Lab Control Sample	118	106
LCSD 410-576900/3-A	Lab Control Sample Dup	103	94
MB 410-576900/1-A	Method Blank	88	78

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 480-732871/8
Matrix: Water
Analysis Batch: 732871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 11:50	1
Acetonitrile	ND		15		ug/L			11/19/24 11:50	1
Acrolein	ND		20		ug/L			11/19/24 11:50	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 11:50	1
Benzene	ND		1.0		ug/L			11/19/24 11:50	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Bromoform	ND		1.0		ug/L			11/19/24 11:50	1
Bromomethane	ND		1.0		ug/L			11/19/24 11:50	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 11:50	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 11:50	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 11:50	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
Chloroprene	ND		1.0		ug/L			11/19/24 11:50	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Chloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Chloroform	ND		1.0		ug/L			11/19/24 11:50	1
Chloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Allyl chloride	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 11:50	1
Dibromomethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 11:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 11:50	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 11:50	1
2-Hexanone	ND		5.0		ug/L			11/19/24 11:50	1
Iodomethane	ND		1.0		ug/L			11/19/24 11:50	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 11:50	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 11:50	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 11:50	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 11:50	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 11:50	1
Naphthalene	ND		1.0		ug/L			11/19/24 11:50	1
Propionitrile	ND		10		ug/L			11/19/24 11:50	1

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

Lab Sample ID: MB 480-732871/8
Matrix: Water
Analysis Batch: 732871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			11/19/24 11:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 11:50	1
Toluene	ND		1.0		ug/L			11/19/24 11:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Trichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 11:50	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 11:50	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 11:50	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/19/24 11:50*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/19/24 11:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*11/19/24 11:50*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*11/19/24 11:50*	*1*

Lab Sample ID: LCS 480-732871/6
Matrix: Water
Analysis Batch: 732871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	125	107		ug/L		86	56 - 142
Acrolein	125	115		ug/L		92	52 - 143
Acrylonitrile	250	233		ug/L		93	63 - 125
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromochloromethane	25.0	25.3		ug/L		101	72 - 130
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	25.1		ug/L		100	61 - 132
Bromomethane	25.0	23.6		ug/L		94	55 - 144
2-Butanone (MEK)	125	113		ug/L		91	57 - 140
Carbon disulfide	25.0	22.8		ug/L		91	59 - 134
Carbon tetrachloride	25.0	22.1		ug/L		88	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Dibromochloromethane	25.0	22.6		ug/L		90	75 - 125
Chloroethane	25.0	23.0		ug/L		92	69 - 136
Chloroform	25.0	22.4		ug/L		89	73 - 127
Chloromethane	25.0	18.3		ug/L		73	68 - 124
Allyl chloride	25.0	23.7		ug/L		95	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	56 - 134
Dibromomethane	25.0	24.4		ug/L		98	76 - 127
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	80 - 124
1,3-Dichlorobenzene	25.0	21.6		ug/L		87	77 - 120

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

Lab Sample ID: LCS 480-732871/6
Matrix: Water
Analysis Batch: 732871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	25.0	21.5		ug/L		86	80 - 120
trans-1,4-Dichloro-2-butene	25.0	23.2		ug/L		93	41 - 131
Dichlorodifluoromethane	25.0	19.2		ug/L		77	59 - 135
1,1-Dichloroethane	25.0	23.8		ug/L		95	77 - 120
1,2-Dichloroethane	25.0	25.5		ug/L		102	75 - 120
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
1,1-Dichloroethene	25.0	23.1		ug/L		92	66 - 127
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120
1,3-Dichloropropane	25.0	22.7		ug/L		91	75 - 120
2,2-Dichloropropane	25.0	24.7		ug/L		99	63 - 136
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
trans-1,3-Dichloropropene	25.0	24.5		ug/L		98	80 - 120
1,1-Dichloropropene	25.0	22.8		ug/L		91	72 - 122
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Ethyl methacrylate	25.0	23.3		ug/L		93	74 - 120
2-Hexanone	125	112		ug/L		89	65 - 127
Iodomethane	25.0	23.5		ug/L		94	78 - 123
Isobutyl alcohol	625	518		ug/L		83	51 - 150
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124
Methyl isobutyl ketone (MIBK)	125	119		ug/L		95	71 - 125
Naphthalene	25.0	24.0		ug/L		96	66 - 125
Styrene	25.0	23.7		ug/L		95	80 - 120
1,1,1,2-Tetrachloroethane	25.0	22.0		ug/L		88	80 - 120
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
Tetrachloroethene	25.0	22.1		ug/L		88	74 - 122
Toluene	25.0	22.9		ug/L		92	80 - 122
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	79 - 122
1,1,1-Trichloroethane	25.0	23.1		ug/L		92	73 - 126
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	76 - 122
Trichloroethene	25.0	23.1		ug/L		93	74 - 123
Trichlorofluoromethane	25.0	26.7		ug/L		107	62 - 150
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	68 - 122
Vinyl acetate	50.0	51.0		ug/L		102	50 - 144
Vinyl chloride	25.0	22.6		ug/L		91	65 - 133
Xylenes (total)	50.0	47.4		ug/L		95	76 - 122
1,2-Dibromoethane	25.0	22.9		ug/L		92	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

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

Lab Sample ID: 480-225549-A-4 MS
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	7000		12500	18100		ug/L		89	56 - 142
Benzene	ND		2500	2370		ug/L		95	71 - 124
Bromodichloromethane	ND		2500	2470		ug/L		99	80 - 122
Bromoform	ND		2500	2420		ug/L		97	61 - 132
Bromomethane	ND		2500	2020		ug/L		81	55 - 144
2-Butanone (MEK)	5200		12500	17400		ug/L		97	57 - 140
Carbon disulfide	ND		2500	2160		ug/L		86	59 - 134
Carbon tetrachloride	ND		2500	2170		ug/L		87	72 - 134
Chlorobenzene	ND		2500	2420		ug/L		97	80 - 120
Dibromochloromethane	ND		2500	2360		ug/L		95	75 - 125
Chloroethane	ND		2500	2040		ug/L		82	69 - 136
Chloroform	ND		2500	2220		ug/L		89	73 - 127
Chloromethane	ND		2500	1910		ug/L		76	68 - 124
1,1-Dichloroethane	ND		2500	2440		ug/L		96	77 - 120
1,2-Dichloroethane	ND		2500	2590		ug/L		101	75 - 120
cis-1,2-Dichloroethene	260		2500	2650		ug/L		96	74 - 124
trans-1,2-Dichloroethene	ND		2500	2250		ug/L		90	73 - 127
1,1-Dichloroethene	ND		2500	2360		ug/L		94	66 - 127
1,2-Dichloropropane	ND		2500	2320		ug/L		93	76 - 120
cis-1,3-Dichloropropene	ND		2500	2480		ug/L		99	74 - 124
trans-1,3-Dichloropropene	ND		2500	2380		ug/L		95	80 - 120
Ethylbenzene	ND		2500	2430		ug/L		97	77 - 123
2-Hexanone	ND		12500	12100		ug/L		97	65 - 127
Methylene Chloride	4800		2500	7010		ug/L		88	75 - 124
Methyl isobutyl ketone (MIBK)	ND		12500	12200		ug/L		94	71 - 125
Styrene	ND		2500	2450		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	ND		2500	2160		ug/L		86	76 - 120
Tetrachloroethene	630		2500	2870		ug/L		90	74 - 122
Toluene	220		2500	2650		ug/L		97	80 - 122
1,1,1-Trichloroethane	ND		2500	2260		ug/L		90	73 - 126
1,1,2-Trichloroethane	ND		2500	2410		ug/L		96	76 - 122
Trichloroethene	ND		2500	2470		ug/L		97	74 - 123
Vinyl acetate	ND	F1	5000	ND	F1	ug/L		6	50 - 144
Vinyl chloride	150		2500	2540		ug/L		96	65 - 133
Xylenes (total)	ND		5000	5060		ug/L		101	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*

Lab Sample ID: 480-225549-A-4 MSD
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	7000		12500	17800		ug/L		87	56 - 142	2	15
Benzene	ND		2500	2390		ug/L		95	71 - 124	1	13

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

Lab Sample ID: 480-225549-A-4 MSD
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromodichloromethane	ND		2500	2450		ug/L		98	80 - 122	1	15
Bromoform	ND		2500	2300		ug/L		92	61 - 132	5	15
Bromomethane	ND		2500	2070		ug/L		83	55 - 144	2	15
2-Butanone (MEK)	5200		12500	16900		ug/L		94	57 - 140	3	20
Carbon disulfide	ND		2500	2200		ug/L		88	59 - 134	2	15
Carbon tetrachloride	ND		2500	2140		ug/L		86	72 - 134	1	15
Chlorobenzene	ND		2500	2330		ug/L		93	80 - 120	4	25
Dibromochloromethane	ND		2500	2280		ug/L		91	75 - 125	3	15
Chloroethane	ND		2500	1990		ug/L		79	69 - 136	3	15
Chloroform	ND		2500	2260		ug/L		90	73 - 127	2	20
Chloromethane	ND		2500	1750		ug/L		70	68 - 124	9	15
1,1-Dichloroethane	ND		2500	2420		ug/L		95	77 - 120	1	20
1,2-Dichloroethane	ND		2500	2560		ug/L		100	75 - 120	1	20
cis-1,2-Dichloroethene	260		2500	2590		ug/L		93	74 - 124	3	15
trans-1,2-Dichloroethene	ND		2500	2370		ug/L		95	73 - 127	5	20
1,1-Dichloroethene	ND		2500	2350		ug/L		94	66 - 127	0	16
1,2-Dichloropropane	ND		2500	2230		ug/L		89	76 - 120	4	20
cis-1,3-Dichloropropene	ND		2500	2370		ug/L		95	74 - 124	5	15
trans-1,3-Dichloropropene	ND		2500	2230		ug/L		89	80 - 120	6	15
Ethylbenzene	ND		2500	2330		ug/L		93	77 - 123	5	15
2-Hexanone	ND		12500	11200		ug/L		90	65 - 127	8	15
Methylene Chloride	4800		2500	6940		ug/L		85	75 - 124	1	15
Methyl isobutyl ketone (MIBK)	ND		12500	11600		ug/L		89	71 - 125	6	35
Styrene	ND		2500	2310		ug/L		93	80 - 120	6	20
1,1,2,2-Tetrachloroethane	ND		2500	2300		ug/L		92	76 - 120	6	15
Tetrachloroethene	630		2500	2670		ug/L		82	74 - 122	7	20
Toluene	220		2500	2550		ug/L		93	80 - 122	4	15
1,1,1-Trichloroethane	ND		2500	2230		ug/L		89	73 - 126	1	15
1,1,2-Trichloroethane	ND		2500	2470		ug/L		99	76 - 122	2	15
Trichloroethene	ND		2500	2430		ug/L		95	74 - 123	2	16
Vinyl acetate	ND	F1	5000	ND	F1	ug/L		5	50 - 144	22	23
Vinyl chloride	150		2500	2490		ug/L		94	65 - 133	2	15
Xylenes (total)	ND		5000	4700		ug/L		94	76 - 122	7	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*

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

Lab Sample ID: MB 280-676768/9
Matrix: Water
Analysis Batch: 676768

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 07:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/27/24 07:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/27/24 07:31	1

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

Lab Sample ID: MB 280-676768/9
Matrix: Water
Analysis Batch: 676768

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			11/27/24 07:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/27/24 07:31	1
1,1-Dichloroethane	ND		1.0		ug/L			11/27/24 07:31	1
1,1-Dichloroethene	ND		1.0		ug/L			11/27/24 07:31	1
1,1-Dichloropropene	ND		1.0		ug/L			11/27/24 07:31	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			11/27/24 07:31	1
1,2,3-Trichloropropane	ND		2.5		ug/L			11/27/24 07:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/27/24 07:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/27/24 07:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/27/24 07:31	1
1,2-Dichloroethane	ND		1.0		ug/L			11/27/24 07:31	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			11/27/24 07:31	1
1,2-Dichloropropane	ND		1.0		ug/L			11/27/24 07:31	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			11/27/24 07:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/27/24 07:31	1
1,3-Dichloropropane	ND		1.0		ug/L			11/27/24 07:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/27/24 07:31	1
1,4-Dioxane	ND		40		ug/L			11/27/24 07:31	1
2,2-Dichloropropane	ND		1.0		ug/L			11/27/24 07:31	1
2-Butanone (MEK)	ND		10		ug/L			11/27/24 07:31	1
o-Chlorotoluene	ND		1.0		ug/L			11/27/24 07:31	1
2-Hexanone	ND		5.0		ug/L			11/27/24 07:31	1
Butyl alcohol, tert-	ND		10		ug/L			11/27/24 07:31	1
p-Chlorotoluene	ND		1.0		ug/L			11/27/24 07:31	1
p-Cymene	ND		1.0		ug/L			11/27/24 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			11/27/24 07:31	1
Acetone	ND		15		ug/L			11/27/24 07:31	1
Acetonitrile	ND		30		ug/L			11/27/24 07:31	1
Acrolein	ND		20		ug/L			11/27/24 07:31	1
Acrylonitrile	ND		20		ug/L			11/27/24 07:31	1
Benzene	ND		1.0		ug/L			11/27/24 07:31	1
Bromobenzene	ND		1.0		ug/L			11/27/24 07:31	1
Bromoform	ND		2.0		ug/L			11/27/24 07:31	1
Bromomethane	ND		5.0		ug/L			11/27/24 07:31	1
Carbon disulfide	ND		2.0		ug/L			11/27/24 07:31	1
Carbon tetrachloride	ND		1.0		ug/L			11/27/24 07:31	1
Chlorobenzene	ND		1.0		ug/L			11/27/24 07:31	1
Bromochloromethane	ND		1.0		ug/L			11/27/24 07:31	1
Dibromochloromethane	ND		1.0		ug/L			11/27/24 07:31	1
Chloroethane	ND		2.0		ug/L			11/27/24 07:31	1
Chloroform	ND		1.0		ug/L			11/27/24 07:31	1
Chloromethane	ND		2.0		ug/L			11/27/24 07:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 07:31	1
Cyclohexane	ND		1.0		ug/L			11/27/24 07:31	1
Dibromomethane	ND		1.0		ug/L			11/27/24 07:31	1
Bromodichloromethane	ND		1.0		ug/L			11/27/24 07:31	1
Dichlorodifluoromethane	ND		2.0		ug/L			11/27/24 07:31	1

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

Lab Sample ID: MB 280-676768/9
Matrix: Water
Analysis Batch: 676768

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorofluoromethane	ND		2.0		ug/L			11/27/24 07:31	1
Ethyl acetate	ND		5.0		ug/L			11/27/24 07:31	1
Ethyl ether	ND		2.0		ug/L			11/27/24 07:31	1
Ethylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			11/27/24 07:31	1
Hexachlorobutadiene	ND		2.0		ug/L			11/27/24 07:31	1
Hexane	ND		2.0		ug/L			11/27/24 07:31	1
Iodomethane	ND		5.0		ug/L			11/27/24 07:31	1
Isobutanol	ND		110		ug/L			11/27/24 07:31	1
Isopropyl ether	ND		10		ug/L			11/27/24 07:31	1
Isopropylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
Methacrylonitrile	ND		15		ug/L			11/27/24 07:31	1
Methyl acetate	ND		5.0		ug/L			11/27/24 07:31	1
Methyl tert-butyl ether	ND		5.0		ug/L			11/27/24 07:31	1
Methylcyclohexane	ND		1.0		ug/L			11/27/24 07:31	1
Methylene Chloride	ND		2.0		ug/L			11/27/24 07:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/27/24 07:31	1
Naphthalene	ND		3.0		ug/L			11/27/24 07:31	1
Butyl alcohol, n-	ND		60		ug/L			11/27/24 07:31	1
n-Butylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
N-Propylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
o-Xylene	ND		1.0		ug/L			11/27/24 07:31	1
sec-Butylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
Tetrachloroethene	ND		1.0		ug/L			11/27/24 07:31	1
Tetrahydrofuran	ND		7.0		ug/L			11/27/24 07:31	1
Toluene	ND		1.0		ug/L			11/27/24 07:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/27/24 07:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 07:31	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			11/27/24 07:31	1
Trichloroethene	ND		1.0		ug/L			11/27/24 07:31	1
Trichlorofluoromethane	ND		2.0		ug/L			11/27/24 07:31	1
Vinyl acetate	ND		3.0		ug/L			11/27/24 07:31	1
Vinyl chloride	ND		1.0		ug/L			11/27/24 07:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/27/24 07:31	1
Styrene	ND		1.0		ug/L			11/27/24 07:31	1
tert-Butylbenzene	ND		1.0		ug/L			11/27/24 07:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			11/27/24 07:31	1
Ethyl tert-butyl ether	ND		5.0		ug/L			11/27/24 07:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*11/27/24 07:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*11/27/24 07:31*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*11/27/24 07:31*	*1*

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

Lab Sample ID: LCS 280-676768/4
Matrix: Water
Analysis Batch: 676768

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	50.0	56.6		ug/L		113	80 - 124
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	80 - 123
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	74 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.9		ug/L		96	73 - 132
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	50.4		ug/L		101	78 - 121
1,1-Dichloroethene	50.0	49.6		ug/L		99	77 - 121
1,1-Dichloropropene	50.0	49.1		ug/L		98	77 - 123
1,2,3-Trichlorobenzene	50.0	54.5		ug/L		109	65 - 129
1,2,3-Trichloropropane	50.0	52.8		ug/L		106	80 - 120
1,2,4-Trichlorobenzene	50.0	56.0		ug/L		112	74 - 126
1,2,4-Trimethylbenzene	50.0	51.8		ug/L		104	79 - 124
1,2-Dibromo-3-Chloropropane	50.0	58.5		ug/L		117	73 - 128
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	45.1		ug/L		90	71 - 121
1,2-Dichloropropane	50.0	50.2		ug/L		100	78 - 120
1,3,5-Trimethylbenzene	50.0	52.0		ug/L		104	80 - 122
1,3-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	51.3		ug/L		103	77 - 122
1,4-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120
1,4-Dioxane	1000	1110		ug/L		111	46 - 140
2,2-Dichloropropane	50.0	54.9		ug/L		110	75 - 131
2-Butanone (MEK)	200	209		ug/L		105	58 - 135
o-Chlorotoluene	50.0	51.9		ug/L		104	80 - 120
2-Hexanone	200	210		ug/L		105	62 - 137
Butyl alcohol, tert-	500	603		ug/L		121	54 - 140
p-Chlorotoluene	50.0	53.5		ug/L		107	80 - 120
p-Cymene	50.0	53.5		ug/L		107	80 - 122
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		107	66 - 135
Acetone	200	192		ug/L		96	61 - 134
Acrolein	494	571		ug/L		116	31 - 174
Acrylonitrile	500	516		ug/L		103	70 - 126
Benzene	50.0	50.1		ug/L		100	80 - 120
Bromobenzene	50.0	51.1		ug/L		102	80 - 120
Bromoform	50.0	61.8		ug/L		124	79 - 138
Bromomethane	50.0	38.7		ug/L		77	29 - 148
Carbon disulfide	50.0	50.7		ug/L		101	70 - 121
Carbon tetrachloride	50.0	53.9		ug/L		108	79 - 127
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120
Bromochloromethane	50.0	49.4		ug/L		99	80 - 123
Dibromochloromethane	50.0	55.9		ug/L		112	80 - 125
Chloroethane	50.0	51.2		ug/L		102	56 - 141
Chloroform	50.0	49.5		ug/L		99	80 - 120
Chloromethane	50.0	48.7		ug/L		97	56 - 133
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	80 - 120
Cyclohexane	50.0	44.9		ug/L		90	68 - 125
Dibromomethane	50.0	47.5		ug/L		95	80 - 120
Bromodichloromethane	50.0	50.9		ug/L		102	80 - 123

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

Lab Sample ID: LCS 280-676768/4
Matrix: Water
Analysis Batch: 676768

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	50.0	45.7		ug/L		91	47 - 135
Dichlorofluoromethane	50.0	49.9		ug/L		100	63 - 135
Ethyl ether	50.0	50.0		ug/L		100	68 - 132
Ethylbenzene	50.0	51.8		ug/L		104	80 - 120
1,2-Dibromoethane (EDB)	50.0	49.9		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	54.1		ug/L		108	73 - 128
Hexane	50.0	42.3		ug/L		85	55 - 143
Iodomethane	50.0	32.8		ug/L		66	43 - 139
Isobutanol	1250	1320		ug/L		106	46 - 146
Isopropylbenzene	50.0	52.7		ug/L		105	78 - 122
Methyl acetate	100	97.6		ug/L		98	59 - 136
Methyl tert-butyl ether	50.0	50.9		ug/L		102	80 - 120
Methylcyclohexane	50.0	43.5		ug/L		87	64 - 130
Methylene Chloride	50.0	48.6		ug/L		97	78 - 120
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	80 - 120
Naphthalene	50.0	56.0		ug/L		112	60 - 124
n-Butylbenzene	50.0	51.5		ug/L		103	59 - 140
N-Propylbenzene	50.0	52.9		ug/L		106	80 - 123
o-Xylene	50.0	51.9		ug/L		104	80 - 120
sec-Butylbenzene	50.0	53.5		ug/L		107	80 - 123
Tetrachloroethene	50.0	51.4		ug/L		103	80 - 121
Tetrahydrofuran	100	104		ug/L		104	62 - 130
Toluene	50.0	50.7		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	79 - 121
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 123
trans-1,4-Dichloro-2-butene	50.0	46.8		ug/L		94	51 - 138
Trichloroethene	50.0	51.8		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	49.3		ug/L		99	54 - 144
Vinyl acetate	100	142		ug/L		142	55 - 161
Vinyl chloride	50.0	52.0		ug/L		104	67 - 127
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	76 - 129
Styrene	50.0	52.6		ug/L		105	80 - 120
tert-Butylbenzene	50.0	53.1		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCS 280-676768/6
Matrix: Water
Analysis Batch: 676768

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trichlorobenzene	25.0	25.0		ug/L		100	50 - 149
Acetonitrile	250	226		ug/L		91	23 - 155
Ethyl acetate	50.0	44.3		ug/L		89	35 - 149
Isopropyl ether	25.0	24.0		ug/L		96	63 - 128

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

Lab Sample ID: LCS 280-676768/6
Matrix: Water
Analysis Batch: 676768

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methacrylonitrile			250	234		ug/L		93	42 - 142		
Butyl alcohol, n-			625	612		ug/L		98	10 - 178		
Tert-amyl methyl ether			25.0	23.5		ug/L		94	53 - 135		
Ethyl tert-butyl ether			25.0	23.6		ug/L		95	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-676768/5
Matrix: Water
Analysis Batch: 676768

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			50.0	54.1		ug/L		108	80 - 124	4	20
1,1,1-Trichloroethane			50.0	49.5		ug/L		99	80 - 123	5	20
1,1,2,2-Tetrachloroethane			50.0	49.4		ug/L		99	74 - 123	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	44.8		ug/L		90	73 - 132	7	23
1,1,2-Trichloroethane			50.0	50.6		ug/L		101	80 - 120	2	20
1,1-Dichloroethane			50.0	48.4		ug/L		97	78 - 121	4	20
1,1-Dichloroethene			50.0	46.7		ug/L		93	77 - 121	6	21
1,1-Dichloropropene			50.0	46.8		ug/L		94	77 - 123	5	20
1,2,3-Trichlorobenzene			50.0	52.7		ug/L		105	65 - 129	3	20
1,2,3-Trichloropropane			50.0	49.6		ug/L		99	80 - 120	6	20
1,2,4-Trichlorobenzene			50.0	54.0		ug/L		108	74 - 126	4	20
1,2,4-Trimethylbenzene			50.0	49.1		ug/L		98	79 - 124	5	20
1,2-Dibromo-3-Chloropropane			50.0	56.3		ug/L		113	73 - 128	4	21
1,2-Dichlorobenzene			50.0	48.6		ug/L		97	80 - 120	6	20
1,2-Dichloroethane			50.0	43.1		ug/L		86	71 - 121	5	20
1,2-Dichloropropane			50.0	48.1		ug/L		96	78 - 120	4	20
1,3,5-Trimethylbenzene			50.0	49.2		ug/L		98	80 - 122	5	20
1,3-Dichlorobenzene			50.0	47.7		ug/L		95	80 - 120	4	20
1,3-Dichloropropane			50.0	48.9		ug/L		98	77 - 122	5	20
1,4-Dichlorobenzene			50.0	48.4		ug/L		97	80 - 120	6	20
1,4-Dioxane			1000	1060		ug/L		106	46 - 140	4	24
2,2-Dichloropropane			50.0	50.5		ug/L		101	75 - 131	8	22
2-Butanone (MEK)			200	200		ug/L		100	58 - 135	5	20
o-Chlorotoluene			50.0	49.3		ug/L		99	80 - 120	5	20
2-Hexanone			200	199		ug/L		100	62 - 137	5	21
Butyl alcohol, tert-			500	585		ug/L		117	54 - 140	3	29
p-Chlorotoluene			50.0	50.2		ug/L		100	80 - 120	6	20
p-Cymene			50.0	49.7		ug/L		99	80 - 122	7	20
4-Methyl-2-pentanone (MIBK)			200	205		ug/L		102	66 - 135	4	20
Acetone			200	183		ug/L		92	61 - 134	5	21
Acrolein			494	535		ug/L		108	31 - 174	7	23
Acrylonitrile			500	490		ug/L		98	70 - 126	5	20
Benzene			50.0	48.7		ug/L		97	80 - 120	3	20

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

Lab Sample ID: LCSD 280-676768/5
Matrix: Water
Analysis Batch: 676768

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromobenzene			50.0	48.8		ug/L		98	80 - 120	5	20
Bromoform			50.0	58.5		ug/L		117	79 - 138	6	20
Bromomethane			50.0	38.3		ug/L		77	29 - 148	1	40
Carbon disulfide			50.0	47.6		ug/L		95	70 - 121	6	20
Carbon tetrachloride			50.0	51.3		ug/L		103	79 - 127	5	20
Chlorobenzene			50.0	47.0		ug/L		94	80 - 120	5	20
Bromochloromethane			50.0	47.1		ug/L		94	80 - 123	5	20
Dibromochloromethane			50.0	54.2		ug/L		108	80 - 125	3	20
Chloroethane			50.0	49.5		ug/L		99	56 - 141	3	30
Chloroform			50.0	47.3		ug/L		95	80 - 120	4	20
Chloromethane			50.0	47.7		ug/L		95	56 - 133	2	20
cis-1,2-Dichloroethene			50.0	48.8		ug/L		98	80 - 120	5	20
Cyclohexane			50.0	41.6		ug/L		83	68 - 125	8	32
Dibromomethane			50.0	46.2		ug/L		92	80 - 120	3	20
Bromodichloromethane			50.0	48.5		ug/L		97	80 - 123	5	20
Dichlorodifluoromethane			50.0	44.1		ug/L		88	47 - 135	4	21
Dichlorofluoromethane			50.0	48.4		ug/L		97	63 - 135	3	21
Ethyl ether			50.0	49.0		ug/L		98	68 - 132	2	20
Ethylbenzene			50.0	49.8		ug/L		100	80 - 120	4	20
1,2-Dibromoethane (EDB)			50.0	47.6		ug/L		95	80 - 120	5	20
Hexachlorobutadiene			50.0	48.0		ug/L		96	73 - 128	12	20
Hexane			50.0	38.1		ug/L		76	55 - 143	10	23
Iodomethane			50.0	32.9		ug/L		66	43 - 139	1	38
Isobutanol			1250	1280		ug/L		103	46 - 146	3	30
Isopropylbenzene			50.0	49.9		ug/L		100	78 - 122	6	20
Methyl acetate			100	93.8		ug/L		94	59 - 136	4	20
Methyl tert-butyl ether			50.0	49.4		ug/L		99	80 - 120	3	20
Methylcyclohexane			50.0	40.7		ug/L		81	64 - 130	6	21
Methylene Chloride			50.0	47.1		ug/L		94	78 - 120	3	20
m-Xylene & p-Xylene			50.0	48.0		ug/L		96	80 - 120	5	20
Naphthalene			50.0	53.9		ug/L		108	60 - 124	4	21
n-Butylbenzene			50.0	48.1		ug/L		96	59 - 140	7	20
N-Propylbenzene			50.0	49.6		ug/L		99	80 - 123	6	20
o-Xylene			50.0	49.7		ug/L		99	80 - 120	4	20
sec-Butylbenzene			50.0	49.6		ug/L		99	80 - 123	8	20
Tetrachloroethene			50.0	49.0		ug/L		98	80 - 121	5	20
Tetrahydrofuran			100	100		ug/L		100	62 - 130	4	20
Toluene			50.0	48.3		ug/L		97	80 - 120	5	20
trans-1,2-Dichloroethene			50.0	48.6		ug/L		97	79 - 121	5	20
trans-1,3-Dichloropropene			50.0	49.8		ug/L		100	80 - 123	4	20
trans-1,4-Dichloro-2-butene			50.0	46.1		ug/L		92	51 - 138	2	24
Trichloroethene			50.0	50.2		ug/L		100	80 - 120	3	20
Trichlorofluoromethane			50.0	47.9		ug/L		96	54 - 144	3	28
Vinyl acetate			100	130		ug/L		130	55 - 161	9	23
Vinyl chloride			50.0	50.7		ug/L		101	67 - 127	3	25
cis-1,3-Dichloropropene			50.0	48.9		ug/L		98	76 - 129	6	20
Styrene			50.0	50.5		ug/L		101	80 - 120	4	20
tert-Butylbenzene			50.0	50.2		ug/L		100	80 - 120	5	20

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

Lab Sample ID: LCSD 280-676768/5
Matrix: Water
Analysis Batch: 676768

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCSD 280-676768/7
Matrix: Water
Analysis Batch: 676768

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
1,3,5-Trichlorobenzene			25.0	25.2		ug/L		101	50 - 149	1	20
Acetonitrile			250	235		ug/L		94	23 - 155	4	20
Ethyl acetate			50.0	46.2		ug/L		92	35 - 149	4	20
Isopropyl ether			25.0	24.3		ug/L		97	63 - 128	1	20
Methacrylonitrile			250	237		ug/L		95	42 - 142	1	20
Butyl alcohol, n-			625	641		ug/L		103	10 - 178	5	20
Tert-amyl methyl ether			25.0	24.5		ug/L		98	53 - 135	4	20
Ethyl tert-butyl ether			25.0	24.5		ug/L		98	53 - 137	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

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

Lab Sample ID: MB 280-675316/5
Matrix: Water
Analysis Batch: 675316

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			11/15/24 15:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*11/15/24 15:10*	*1*

Lab Sample ID: LCS 280-675316/1002
Matrix: Water
Analysis Batch: 675316

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			1.00	0.926		ug/L		93	40 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*99*		*77 - 120*

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

Lab Sample ID: LCSD 280-675316/3
Matrix: Water
Analysis Batch: 675316

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
Vinyl chloride			1.00	0.944		ug/L		94	40 - 144	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

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

Lab Sample ID: MB 280-675636/1-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
5-Nitro-o-toluidine	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosomethylethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodimethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Methyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodiethylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Ethyl methanesulfonate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Phenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Chlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzyl alcohol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Acetophenone	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosopyrrolidine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachloroethane	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Nitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosopiperidine	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Isophorone	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dimethylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Nitrophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Chloroaniline	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,6-Dichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachloropropene	ND		100		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachlorobutadiene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Chloro-3-methylphenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Safrole	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Methylnaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Isosafrole	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachlorocyclopentadiene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4,6-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1

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

Lab Sample ID: MB 280-675636/1-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Chloronaphthalene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,4-Naphthoquinone	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Dimethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,3-Dinitrobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,6-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Acenaphthylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
3-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Acenaphthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dinitrophenol	ND		30		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Nitrophenol	ND		25		ug/L		11/19/24 11:40	11/20/24 10:00	1
Dibenzofuran	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,4-Dinitrotoluene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pentachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
1-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Naphthylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Diethyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Fluorene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Nitroaniline	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
N-Nitrosodiphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Diphenylamine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
1,3,5-Trinitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Diallate	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Phenacetin	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Bromophenyl phenyl ether	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Hexachlorobenzene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
4-Aminobiphenyl	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pronamide	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pentachlorophenol	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pentachloronitrobenzene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Phenanthrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Methyl parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Di-n-butyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Methapyrilene	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Isodrin	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Butyl benzyl phthalate	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Famphur	ND		100		ug/L		11/19/24 11:40	11/20/24 10:00	1
2-Acetylaminofluorene	ND		100		ug/L		11/19/24 11:40	11/20/24 10:00	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
3,3'-Dichlorobenzidine	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benz(a)anthracene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Chrysene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1

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

Lab Sample ID: MB 280-675636/1-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(b)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(k)fluoranthene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(a)pyrene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
3-Methylcholanthrene	ND		20		ug/L		11/19/24 11:40	11/20/24 10:00	1
Dibenz(a,h)anthracene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Benzo(ghi)perylene	ND		4.0		ug/L		11/19/24 11:40	11/20/24 10:00	1
bis(2-Chloroethyl) ether	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
o-Toluidine	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Chlorobenzilate	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1
Parathion	ND		50		ug/L		11/19/24 11:40	11/20/24 10:00	1
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		11/19/24 11:40	11/20/24 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*40*		*13 - 120*	*11/19/24 11:40*	*11/20/24 10:00*	*1*
Phenol-d5	*25*		*10 - 120*	*11/19/24 11:40*	*11/20/24 10:00*	*1*
Nitrobenzene-d5	*71*		*34 - 120*	*11/19/24 11:40*	*11/20/24 10:00*	*1*
2-Fluorobiphenyl	*57*		*28 - 120*	*11/19/24 11:40*	*11/20/24 10:00*	*1*
2,4,6-Tribromophenol	*73*		*22 - 140*	*11/19/24 11:40*	*11/20/24 10:00*	*1*
Terphenyl-d14	*98*		*55 - 142*	*11/19/24 11:40*	*11/20/24 10:00*	*1*

Lab Sample ID: LCS 280-675636/2-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Dimethylaminoazobenzene	80.0	81.4		ug/L		102	39 - 155
5-Nitro-o-toluidine	80.0	77.0		ug/L		96	45 - 156
N-Nitrosomethylethylamine	80.0	55.4		ug/L		69	16 - 137
N-Nitrosodimethylamine	80.0	40.6		ug/L		51	21 - 120
Methyl methanesulfonate	80.0	47.7		ug/L		60	15 - 120
N-Nitrosodiethylamine	80.0	63.7		ug/L		80	24 - 129
Ethyl methanesulfonate	80.0	64.6		ug/L		81	27 - 134
Phenol	80.0	28.5		ug/L		36	28 - 120
2-Chlorophenol	80.0	62.3		ug/L		78	35 - 120
Benzyl alcohol	80.0	59.3		ug/L		74	35 - 121
2-Methylphenol	80.0	60.2		ug/L		75	49 - 120
3-Methylphenol & 4-Methylphenol	80.0	62.6		ug/L		78	54 - 120
Acetophenone	80.0	71.2		ug/L		89	40 - 120
N-Nitrosodi-n-propylamine	80.0	73.9		ug/L		92	44 - 120
N-Nitrosopyrrolidine	80.0	67.4		ug/L		84	44 - 125
Hexachloroethane	80.0	38.0		ug/L		48	10 - 120
Nitrobenzene	80.0	65.0		ug/L		81	37 - 120
N-Nitrosopiperidine	80.0	70.2		ug/L		88	53 - 120
Isophorone	80.0	71.3		ug/L		89	51 - 120
2,4-Dimethylphenol	80.0	70.0		ug/L		87	49 - 120

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

Lab Sample ID: LCS 280-675636/2-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitrophenol	80.0	67.0		ug/L		84	31 - 120
O,O,O-Triethyl phosphorothioate	80.0	68.4		ug/L		85	54 - 123
Bis(2-chloroethoxy)methane	80.0	70.6		ug/L		88	35 - 127
2,4-Dichlorophenol	80.0	71.1		ug/L		89	42 - 120
4-Chloroaniline	80.0	63.2		ug/L		79	33 - 120
2,6-Dichlorophenol	80.0	70.2		ug/L		88	44 - 120
Hexachloropropene	80.0	42.6	J	ug/L		53	23 - 120
Hexachlorobutadiene	80.0	40.2		ug/L		50	10 - 120
N-Nitrosodi-n-butylamine	80.0	80.8		ug/L		101	43 - 157
4-Chloro-3-methylphenol	80.0	75.8		ug/L		95	51 - 120
Safrole	80.0	66.0		ug/L		82	58 - 120
2-Methylnaphthalene	80.0	58.9		ug/L		74	33 - 120
Isosafrole	80.0	68.6		ug/L		86	60 - 120
1,2,4,5-Tetrachlorobenzene	80.0	57.3		ug/L		72	32 - 120
Hexachlorocyclopentadiene	160	211	E *+	ug/L		132	10 - 120
2,4,6-Trichlorophenol	80.0	76.8		ug/L		96	44 - 120
2,4,5-Trichlorophenol	80.0	78.0		ug/L		97	52 - 120
2-Chloronaphthalene	80.0	67.3		ug/L		84	43 - 120
2-Nitroaniline	80.0	79.5		ug/L		99	51 - 120
1,4-Naphthoquinone	80.0	92.6		ug/L		116	59 - 152
Dimethyl phthalate	80.0	76.8		ug/L		96	57 - 121
1,3-Dinitrobenzene	80.0	80.4		ug/L		101	50 - 124
2,6-Dinitrotoluene	80.0	77.7		ug/L		97	33 - 124
Acenaphthylene	80.0	69.3		ug/L		87	50 - 120
3-Nitroaniline	80.0	75.5		ug/L		94	46 - 121
Acenaphthene	80.0	68.8		ug/L		86	48 - 120
2,4-Dinitrophenol	160	159		ug/L		99	11 - 131
4-Nitrophenol	160	72.5		ug/L		45	31 - 120
Dibenzofuran	80.0	70.9		ug/L		89	51 - 120
2,4-Dinitrotoluene	80.0	83.2		ug/L		104	52 - 124
Pentachlorobenzene	80.0	59.4		ug/L		74	43 - 139
1-Naphthylamine	80.0	65.0		ug/L		81	33 - 130
2,3,4,6-Tetrachlorophenol	80.0	81.2		ug/L		101	55 - 136
2-Naphthylamine	80.0	68.4		ug/L		86	36 - 121
Diethyl phthalate	80.0	77.5		ug/L		97	56 - 123
4-Chlorophenyl phenyl ether	80.0	70.7		ug/L		88	52 - 120
Fluorene	80.0	72.0		ug/L		90	53 - 120
4-Nitroaniline	80.0	85.5		ug/L		107	49 - 122
4,6-Dinitro-2-methylphenol	160	163		ug/L		102	37 - 133
N-Nitrosodiphenylamine	80.0	75.9		ug/L		95	54 - 120
Diphenylamine	68.0	64.9		ug/L		95	52 - 120
1,3,5-Trinitrobenzene	80.0	77.8		ug/L		97	33 - 199
Diallate	80.0	74.7		ug/L		93	46 - 145
Phenacetin	80.0	77.5		ug/L		97	54 - 129
4-Bromophenyl phenyl ether	80.0	76.4		ug/L		95	57 - 120
Hexachlorobenzene	80.0	76.3		ug/L		95	56 - 120
4-Aminobiphenyl	80.0	58.1		ug/L		73	19 - 130
Pronamide	80.0	79.2		ug/L		99	53 - 136
Pentachlorophenol	160	156		ug/L		98	42 - 126

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

Lab Sample ID: LCS 280-675636/2-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachloronitrobenzene	80.0	82.7		ug/L		103	68 - 146
Phenanthrene	80.0	75.3		ug/L		94	56 - 120
Anthracene	80.0	76.5		ug/L		96	56 - 121
Methyl parathion	80.0	87.1		ug/L		109	54 - 151
Di-n-butyl phthalate	80.0	83.8		ug/L		105	52 - 132
Methapyrilene	80.0	19.2	J	ug/L		24	10 - 120
Isodrin	80.0	72.9		ug/L		91	57 - 125
Fluoranthene	80.0	79.9		ug/L		100	54 - 122
Pyrene	80.0	78.6		ug/L		98	54 - 126
Butyl benzyl phthalate	80.0	83.7		ug/L		105	49 - 141
Famphur	80.0	82.1	J	ug/L		103	49 - 150
2-Acetylaminofluorene	80.0	74.7	J	ug/L		93	40 - 152
Bis(2-ethylhexyl) phthalate	80.0	85.1		ug/L		106	40 - 134
3,3'-Dichlorobenzidine	160	164		ug/L		103	42 - 147
Benz(a)anthracene	80.0	81.1		ug/L		101	57 - 127
Chrysene	80.0	76.0		ug/L		95	54 - 123
Di-n-octyl phthalate	80.0	82.6		ug/L		103	33 - 141
Benzo(b)fluoranthene	80.0	88.2		ug/L		110	44 - 134
Benzo(k)fluoranthene	80.0	76.6		ug/L		96	58 - 127
7,12-Dimethylbenz(a)anthracene	80.0	79.4		ug/L		99	46 - 124
Benzo(a)pyrene	80.0	82.0		ug/L		103	50 - 120
3-Methylcholanthrene	80.0	68.1		ug/L		85	51 - 120
Dibenz(a,h)anthracene	80.0	82.4		ug/L		103	48 - 125
Indeno(1,2,3-cd)pyrene	80.0	84.0		ug/L		105	38 - 120
Benzo(ghi)perylene	80.0	81.7		ug/L		102	52 - 120
bis(2-Chloroethyl) ether	80.0	66.6		ug/L		83	30 - 120
o-Toluidine	80.0	59.9		ug/L		75	25 - 129
Chlorobenzilate	80.0	80.6		ug/L		101	55 - 165
Parathion	80.0	80.1		ug/L		100	60 - 128
2,2'-oxybis(1-chloropropane)	80.0	64.7		ug/L		81	32 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*44*		*13 - 120*
Phenol-d5	*31*		*10 - 120*
Nitrobenzene-d5	*79*		*34 - 120*
2-Fluorobiphenyl	*75*		*28 - 120*
2,4,6-Tribromophenol	*98*		*22 - 140*
Terphenyl-d14	*97*		*55 - 142*

Lab Sample ID: LCSD 280-675636/3-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Dimethylaminoazobenzene	80.0	79.6		ug/L		100	39 - 155	2	37
5-Nitro-o-toluidine	80.0	74.8		ug/L		94	45 - 156	3	43
N-Nitrosomethylethylamine	80.0	48.0		ug/L		60	16 - 137	14	65
N-Nitrosodimethylamine	80.0	32.5		ug/L		41	21 - 120	22	63

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

Lab Sample ID: LCSD 280-675636/3-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl methanesulfonate	80.0	41.1		ug/L		51	15 - 120	15	48
N-Nitrosodiethylamine	80.0	56.5		ug/L		71	24 - 129	12	58
Ethyl methanesulfonate	80.0	56.5		ug/L		71	27 - 134	13	55
Phenol	80.0	23.7		ug/L		30	28 - 120	18	40
2-Chlorophenol	80.0	54.5		ug/L		68	35 - 120	13	47
Benzyl alcohol	80.0	51.4		ug/L		64	35 - 121	14	62
2-Methylphenol	80.0	51.2		ug/L		64	49 - 120	16	46
3-Methylphenol & 4-Methylphenol	80.0	53.5		ug/L		67	54 - 120	16	49
Acetophenone	80.0	63.0		ug/L		79	40 - 120	12	47
N-Nitrosodi-n-propylamine	80.0	65.2		ug/L		82	44 - 120	12	47
N-Nitrosopyrrolidine	80.0	58.9		ug/L		74	44 - 125	14	48
Hexachloroethane	80.0	45.6		ug/L		57	10 - 120	18	90
Nitrobenzene	80.0	61.1		ug/L		76	37 - 120	6	50
N-Nitrosopiperidine	80.0	65.1		ug/L		81	53 - 120	8	46
Isophorone	80.0	65.8		ug/L		82	51 - 120	8	47
2,4-Dimethylphenol	80.0	61.9		ug/L		77	49 - 120	12	48
2-Nitrophenol	80.0	63.3		ug/L		79	31 - 120	6	51
O,O,O-Triethyl phosphorothioate	80.0	62.3		ug/L		78	54 - 123	9	47
Bis(2-chloroethoxy)methane	80.0	64.9		ug/L		81	35 - 127	8	48
2,4-Dichlorophenol	80.0	64.9		ug/L		81	42 - 120	9	47
4-Chloroaniline	80.0	57.2		ug/L		72	33 - 120	10	78
2,6-Dichlorophenol	80.0	63.6		ug/L		80	44 - 120	10	47
Hexachloropropene	80.0	40.7	J	ug/L		51	23 - 120	4	55
Hexachlorobutadiene	80.0	47.2		ug/L		59	10 - 120	16	56
N-Nitrosodi-n-butylamine	80.0	76.1		ug/L		95	43 - 157	6	46
4-Chloro-3-methylphenol	80.0	73.4		ug/L		92	51 - 120	3	42
Safrole	80.0	62.9		ug/L		79	58 - 120	5	46
2-Methylnaphthalene	80.0	59.5		ug/L		74	33 - 120	1	48
Isosafrole	80.0	61.4		ug/L		77	60 - 120	11	44
1,2,4,5-Tetrachlorobenzene	80.0	53.4		ug/L		67	32 - 120	7	48
Hexachlorocyclopentadiene	160	220	*+ E	ug/L		137	10 - 120	4	96
2,4,6-Trichlorophenol	80.0	70.7		ug/L		88	44 - 120	8	44
2,4,5-Trichlorophenol	80.0	70.5		ug/L		88	52 - 120	10	40
2-Chloronaphthalene	80.0	62.3		ug/L		78	43 - 120	8	43
2-Nitroaniline	80.0	74.5		ug/L		93	51 - 120	6	41
1,4-Naphthoquinone	80.0	87.3		ug/L		109	59 - 152	6	46
Dimethyl phthalate	80.0	72.8		ug/L		91	57 - 121	5	35
1,3-Dinitrobenzene	80.0	78.7		ug/L		98	50 - 124	2	41
2,6-Dinitrotoluene	80.0	72.7		ug/L		91	33 - 124	7	37
Acenaphthylene	80.0	62.9		ug/L		79	50 - 120	10	40
3-Nitroaniline	80.0	70.6		ug/L		88	46 - 121	7	39
Acenaphthene	80.0	63.0		ug/L		79	48 - 120	9	41
2,4-Dinitrophenol	160	163		ug/L		102	11 - 131	3	45
4-Nitrophenol	160	70.5		ug/L		44	31 - 120	3	29
Dibenzofuran	80.0	65.3		ug/L		82	51 - 120	8	40
2,4-Dinitrotoluene	80.0	78.7		ug/L		98	52 - 124	6	35
Pentachlorobenzene	80.0	54.7		ug/L		68	43 - 139	8	42
1-Naphthylamine	80.0	61.3		ug/L		77	33 - 130	6	50
2,3,4,6-Tetrachlorophenol	80.0	78.2		ug/L		98	55 - 136	4	37

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

Lab Sample ID: LCSD 280-675636/3-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675636

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Naphthylamine			80.0	61.6		ug/L		77	36 - 121	11	55
Diethyl phthalate			80.0	74.7		ug/L		93	56 - 123	4	32
4-Chlorophenyl phenyl ether			80.0	66.5		ug/L		83	52 - 120	6	40
Fluorene			80.0	67.5		ug/L		84	53 - 120	6	38
4-Nitroaniline			80.0	81.8		ug/L		102	49 - 122	4	121
4,6-Dinitro-2-methylphenol			160	163		ug/L		102	37 - 133	0	35
N-Nitrosodiphenylamine			80.0	72.5		ug/L		91	54 - 120	5	33
Diphenylamine			68.0	61.8		ug/L		91	52 - 120	5	35
1,3,5-Trinitrobenzene			80.0	79.2		ug/L		99	33 - 199	2	25
Diallate			80.0	70.4		ug/L		88	46 - 145	6	35
Phenacetin			80.0	75.8		ug/L		95	54 - 129	2	43
4-Bromophenyl phenyl ether			80.0	70.5		ug/L		88	57 - 120	8	35
Hexachlorobenzene			80.0	71.7		ug/L		90	56 - 120	6	34
4-Aminobiphenyl			80.0	55.5		ug/L		69	19 - 130	5	75
Pronamide			80.0	76.6		ug/L		96	53 - 136	3	35
Pentachlorophenol			160	154		ug/L		96	42 - 126	1	36
Pentachloronitrobenzene			80.0	80.1		ug/L		100	68 - 146	3	33
Phenanthrene			80.0	71.8		ug/L		90	56 - 120	5	33
Anthracene			80.0	73.6		ug/L		92	56 - 121	4	33
Methyl parathion			80.0	86.2		ug/L		108	54 - 151	1	34
Di-n-butyl phthalate			80.0	79.7		ug/L		100	52 - 132	5	35
Methapyrilene			80.0	ND	*-	ug/L		7	10 - 120	113	149
Isodrin			80.0	68.9		ug/L		86	57 - 125	6	34
Fluoranthene			80.0	77.6		ug/L		97	54 - 122	3	32
Pyrene			80.0	78.3		ug/L		98	54 - 126	0	30
Butyl benzyl phthalate			80.0	82.8		ug/L		103	49 - 141	1	35
Famphur			80.0	84.5	J	ug/L		106	49 - 150	3	45
2-Acetylaminofluorene			80.0	76.0	J	ug/L		95	40 - 152	2	38
Bis(2-ethylhexyl) phthalate			80.0	82.9		ug/L		104	40 - 134	3	38
3,3'-Dichlorobenzidine			160	165		ug/L		103	42 - 147	1	35
Benz(a)anthracene			80.0	79.5		ug/L		99	57 - 127	2	31
Chrysene			80.0	74.5		ug/L		93	54 - 123	2	29
Di-n-octyl phthalate			80.0	78.1		ug/L		98	33 - 141	6	38
Benzo(b)fluoranthene			80.0	83.9		ug/L		105	44 - 134	5	39
Benzo(k)fluoranthene			80.0	74.3		ug/L		93	58 - 127	3	32
7,12-Dimethylbenz(a)anthracene			80.0	77.1		ug/L		96	46 - 124	3	37
Benzo(a)pyrene			80.0	77.9		ug/L		97	50 - 120	5	35
3-Methylcholanthrene			80.0	64.5		ug/L		81	51 - 120	5	38
Dibenz(a,h)anthracene			80.0	79.3		ug/L		99	48 - 125	4	37
Indeno(1,2,3-cd)pyrene			80.0	82.3		ug/L		103	38 - 120	2	36
Benzo(ghi)perylene			80.0	78.3		ug/L		98	52 - 120	4	36
bis(2-Chloroethyl) ether			80.0	60.6		ug/L		76	30 - 120	10	48
o-Toluidine			80.0	56.0		ug/L		70	25 - 129	7	82
Chlorobenzilate			80.0	81.2		ug/L		101	55 - 165	1	33
Parathion			80.0	77.6		ug/L		97	60 - 128	3	38
2,2'-oxybis(1-chloropropane)			80.0	59.3		ug/L		74	32 - 120	9	50

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

Lab Sample ID: LCSD 280-675636/3-A
Matrix: Water
Analysis Batch: 675811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675636

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*38*		*13 - 120*
Phenol-d5	*26*		*10 - 120*
Nitrobenzene-d5	*77*		*34 - 120*
2-Fluorobiphenyl	*69*		*28 - 120*
2,4,6-Tribromophenol	*95*		*22 - 140*
Terphenyl-d14	*96*		*55 - 142*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-675458/1-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
4,4'-DDE	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
4,4'-DDT	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Aldrin	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
alpha-BHC	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
cis-Chlordane	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
beta-BHC	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
delta-BHC	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Dieldrin	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Endosulfan I	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Endosulfan II	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Endosulfan sulfate	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Endrin	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Endrin aldehyde	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
gamma-BHC (Lindane)	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
trans-Chlordane	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Heptachlor	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Heptachlor epoxide	ND		0.050		ug/L		11/18/24 11:16	11/20/24 02:10	1
Kepone	ND		1.0		ug/L		11/18/24 11:16	11/20/24 02:10	1
Methoxychlor	ND		0.10		ug/L		11/18/24 11:16	11/20/24 02:10	1
Toxaphene	ND		2.0		ug/L		11/18/24 11:16	11/20/24 02:10	1
Technical Chlordane	ND		0.50		ug/L		11/18/24 11:16	11/20/24 02:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*10 - 157*	*11/18/24 11:16*	*11/20/24 02:10*	*1*
Tetrachloro-m-xylene	*98*		*12 - 129*	*11/18/24 11:16*	*11/20/24 02:10*	*1*

Lab Sample ID: LCS 280-675458/2-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675458

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.500	0.573		ug/L		115	63 - 140		
4,4'-DDE			0.500	0.519		ug/L		104	58 - 132		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-675458/2-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	0.500	0.580		ug/L		116	64 - 159
Aldrin	0.500	0.538		ug/L		108	10 - 123
alpha-BHC	0.500	0.536		ug/L		107	62 - 123
cis-Chlordane	0.500	0.514		ug/L		103	54 - 138
beta-BHC	0.500	0.491		ug/L		98	58 - 120
delta-BHC	0.500	0.546		ug/L		109	63 - 128
Dieldrin	0.500	0.489		ug/L		98	62 - 135
Endosulfan I	0.500	0.481		ug/L		96	59 - 136
Endosulfan II	0.500	0.492		ug/L		98	56 - 131
Endosulfan sulfate	0.500	0.596		ug/L		119	63 - 138
Endrin	0.500	0.524		ug/L		105	66 - 134
Endrin aldehyde	0.500	0.504		ug/L		101	58 - 125
gamma-BHC (Lindane)	0.500	0.580		ug/L		116	63 - 126
trans-Chlordane	0.500	0.503		ug/L		101	56 - 135
Heptachlor	0.500	0.531		ug/L		106	26 - 136
Heptachlor epoxide	0.500	0.536		ug/L		107	62 - 133
Methoxychlor	0.500	0.577		ug/L		115	55 - 166

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*10 - 157*
Tetrachloro-m-xylene	*92*		*12 - 129*

Lab Sample ID: LCS 280-675458/6-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	20.0	17.8		ug/L		89	52 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*10 - 157*
Tetrachloro-m-xylene	*87*		*12 - 129*

Lab Sample ID: LCS 280-675458/8-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Kepone	3.00	2.58		ug/L		86	10 - 328

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*10 - 157*
Tetrachloro-m-xylene	*94*		*12 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-675458/3-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675458

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.500	0.561		ug/L		112	63 - 140	2	22
4,4'-DDE			0.500	0.519		ug/L		104	58 - 132	0	23
4,4'-DDT			0.500	0.576		ug/L		115	64 - 159	1	24
Aldrin			0.500	0.545		ug/L		109	10 - 123	1	43
alpha-BHC			0.500	0.535		ug/L		107	62 - 123	0	21
cis-Chlordane			0.500	0.516		ug/L		103	54 - 138	0	31
beta-BHC			0.500	0.487		ug/L		97	58 - 120	1	21
delta-BHC			0.500	0.531		ug/L		106	63 - 128	3	22
Dieldrin			0.500	0.491		ug/L		98	62 - 135	0	21
Endosulfan I			0.500	0.490		ug/L		98	59 - 136	2	22
Endosulfan II			0.500	0.494		ug/L		99	56 - 131	0	20
Endosulfan sulfate			0.500	0.569		ug/L		114	63 - 138	5	21
Endrin			0.500	0.530		ug/L		106	66 - 134	1	21
Endrin aldehyde			0.500	0.505		ug/L		101	58 - 125	0	23
gamma-BHC (Lindane)			0.500	0.542		ug/L		108	63 - 126	7	21
trans-Chlordane			0.500	0.506		ug/L		101	56 - 135	1	25
Heptachlor			0.500	0.535		ug/L		107	26 - 136	1	38
Heptachlor epoxide			0.500	0.514		ug/L		103	62 - 133	4	22
Methoxychlor			0.500	0.595		ug/L		119	55 - 166	3	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*10 - 157*
Tetrachloro-m-xylene	*93*		*12 - 129*

Lab Sample ID: LCSD 280-675458/7-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675458

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toxaphene			20.0	18.6		ug/L		93	52 - 142	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*10 - 157*
Tetrachloro-m-xylene	*92*		*12 - 129*

Lab Sample ID: LCSD 280-675458/9-A
Matrix: Water
Analysis Batch: 675683

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675458

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Kepone			3.00	2.90		ug/L		97	10 - 328	12	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*95*		*10 - 157*
Tetrachloro-m-xylene	*98*		*12 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-675458/1-A
Matrix: Water
Analysis Batch: 675600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0		ug/L		11/18/24 11:16	11/19/24 17:38	1
Aroclor 1221	ND		1.0		ug/L		11/18/24 11:16	11/19/24 17:38	1
Aroclor 1232	ND		1.0		ug/L		11/18/24 11:16	11/19/24 17:38	1
Aroclor 1242	ND		1.0		ug/L		11/18/24 11:16	11/19/24 17:38	1
Aroclor 1248	ND		1.0		ug/L		11/18/24 11:16	11/19/24 17:38	1
Aroclor 1254	ND		1.0		ug/L		11/18/24 11:16	11/19/24 17:38	1
Aroclor 1260	ND		1.0		ug/L		11/18/24 11:16	11/19/24 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*30 - 136*	*11/18/24 11:16*	*11/19/24 17:38*	*1*
Tetrachloro-m-xylene	*112*		*25 - 120*	*11/18/24 11:16*	*11/19/24 17:38*	*1*

Lab Sample ID: LCS 280-675458/4-A
Matrix: Water
Analysis Batch: 675600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675458

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			2.00	2.20		ug/L		110	71 - 128		
Aroclor 1260			2.00	2.22		ug/L		111	75 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*30 - 136*
Tetrachloro-m-xylene	*110*		*25 - 120*

Lab Sample ID: LCSD 280-675458/5-A
Matrix: Water
Analysis Batch: 675600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675458

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			2.00	2.52		ug/L		126	71 - 128	13	30
Aroclor 1260			2.00	2.42		ug/L		121	75 - 126	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*30 - 136*
Tetrachloro-m-xylene	*112*		*25 - 120*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-675621/1-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		11/19/24 11:36	11/20/24 12:15	1
Disulfoton	ND		1.0		ug/L		11/19/24 11:36	11/20/24 12:15	1
Phorate	ND		1.2		ug/L		11/19/24 11:36	11/20/24 12:15	1
Thionazin	ND		1.0		ug/L		11/19/24 11:36	11/20/24 12:15	1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Chlormefos	83		27 - 120	11/19/24 11:36	11/20/24 12:15	1
Triphenylphosphate	96		42 - 120	11/19/24 11:36	11/20/24 12:15	1

Lab Sample ID: LCS 280-675621/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 675806 — **Prep Batch: 675621**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dimethoate			4.00	2.82		ug/L		71	20 - 120		
Disulfoton			4.00	3.72		ug/L		93	44 - 120		
Phorate			4.00	3.89		ug/L		97	33 - 124		
Thionazin			4.00	3.71		ug/L		93	39 - 128		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Chlormefos	83		27 - 120
Triphenylphosphate	111		42 - 120

Lab Sample ID: LCSD 280-675621/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 675806 — **Prep Batch: 675621**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate			4.00	3.25		ug/L		81	20 - 120	14	30
Disulfoton			4.00	4.02		ug/L		101	44 - 120	8	30
Phorate			4.00	4.12		ug/L		103	33 - 124	6	30
Thionazin			4.00	3.90		ug/L		97	39 - 128	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Chlormefos	85		27 - 120
Triphenylphosphate	114		42 - 120

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-576900/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 577067 — **Prep Batch: 576900**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0		ug/L		11/19/24 14:58	11/20/24 05:13	1
2,4-D	ND		4.0		ug/L		11/19/24 14:58	11/20/24 05:13	1
Dinoseb	ND		1.0		ug/L		11/19/24 14:58	11/20/24 05:13	1
2,4,5-TP (Silvex)	ND		1.0		ug/L		11/19/24 14:58	11/20/24 05:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	88		34 - 142	11/19/24 14:58	11/20/24 05:13	1
2,4-Dichlorophenylacetic acid	78		34 - 142	11/19/24 14:58	11/20/24 05:13	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 410-576900/2-A
Matrix: Water
Analysis Batch: 577067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576900

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			0.250	0.328	J	ug/L		131	57 - 171		
2,4,5-T			0.250	0.330	J	ug/L		132	57 - 171		
2,4-D			2.50	2.87	J	ug/L		115	53 - 159		
2,4-D			2.50	2.91	J	ug/L		116	53 - 159		
Dinoseb			1.25	ND	*-	ug/L		3	10 - 169		
2,4,5-TP (Silvex)			0.250	0.324	J	ug/L		129	62 - 170		
2,4,5-TP (Silvex)			0.250	0.324	J	ug/L		130	62 - 170		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*118*		*34 - 142*
2,4-Dichlorophenylacetic acid	*106*		*34 - 142*

Lab Sample ID: LCSD 410-576900/3-A
Matrix: Water
Analysis Batch: 577067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576900

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			0.250	0.290	J	ug/L		116	57 - 171	12	30
2,4-D			2.50	2.55	J	ug/L		102	53 - 159	12	30
Dinoseb			1.25	ND	*- *1	ug/L		6	10 - 169	64	30
2,4,5-TP (Silvex)			0.250	0.285	J	ug/L		114	62 - 170	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*103*		*34 - 142*
2,4-Dichlorophenylacetic acid	*94*		*34 - 142*

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-199664-B-1-B MS
Matrix: Water
Analysis Batch: 675676

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cobalt, Total	ND		1.00	1.01		mg/L		101	82 - 119		
Iron, Total	0.55		10.0	10.6		mg/L		100	75 - 125		

Lab Sample ID: 280-199664-B-1-C MSD
Matrix: Water
Analysis Batch: 675676

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt, Total	ND		1.00	1.02		mg/L		102	82 - 119	0	20
Iron, Total	0.55		10.0	10.4		mg/L		99	75 - 125	1	20

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

Lab Sample ID: MB 280-675365/1-A
Matrix: Water
Analysis Batch: 675676

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 21:34	1
Iron, Total	ND		0.060		mg/L		11/18/24 08:31	11/18/24 21:34	1

Lab Sample ID: LCS 280-675365/2-A
Matrix: Water
Analysis Batch: 675676

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Total	1.00	1.03		mg/L		103	89 - 111
Iron, Total	10.0	10.2		mg/L		102	89 - 115

Lab Sample ID: MB 280-675366/1-A
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	ND		0.20		mg/L		11/18/24 08:31	11/28/24 03:14	1
Iron, Dissolved	ND		0.060		mg/L		11/18/24 08:31	11/28/24 03:14	1
Magnesium, Dissolved	ND		0.050		mg/L		11/18/24 08:31	11/28/24 03:14	1
Potassium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 03:14	1
Sodium, Dissolved	ND		1.0		mg/L		11/18/24 08:31	11/28/24 03:14	1

Lab Sample ID: LCS 280-675366/2-A
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	50.0	53.2		mg/L		106	90 - 111
Iron, Dissolved	10.0	10.7		mg/L		107	89 - 115
Magnesium, Dissolved	50.0	52.4		mg/L		105	90 - 113
Potassium, Dissolved	50.0	52.1		mg/L		104	89 - 114
Sodium, Dissolved	50.0	50.7		mg/L		101	90 - 115

Lab Sample ID: 280-199640-A-6-B MS
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 675366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	56		50.0	107		mg/L		101	75 - 125
Iron, Dissolved	ND		10.0	10.7		mg/L		107	75 - 125
Magnesium, Dissolved	14		50.0	65.7		mg/L		104	75 - 125
Potassium, Dissolved	2.5		50.0	54.9		mg/L		105	76 - 125
Sodium, Dissolved	14		50.0	68.8		mg/L		109	75 - 125

Lab Sample ID: 280-199640-A-6-C MSD
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 675366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium, Dissolved	56		50.0	108		mg/L		105	75 - 125	2	20

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

Lab Sample ID: 280-199640-A-6-C MSD
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 675366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron, Dissolved	ND		10.0	10.7		mg/L		107	75 - 125	0	20
Magnesium, Dissolved	14		50.0	66.3		mg/L		105	75 - 125	1	20
Potassium, Dissolved	2.5		50.0	55.1		mg/L		105	76 - 125	0	20
Sodium, Dissolved	14		50.0	69.7		mg/L		111	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 280-199664-B-1-E MS
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	ND		0.0400	0.0400		mg/L		100	80 - 111
Barium, Total	0.015		0.0400	0.0549		mg/L		101	92 - 117
Beryllium, Total	ND		0.0400	0.0419		mg/L		105	87 - 118
Cadmium, Total	0.0042		0.0400	0.0420		mg/L		95	91 - 114
Chromium, Total	ND	F1	0.0400	0.0370	F1	mg/L		90	91 - 114
Lead, Total	0.0059		0.0400	0.0448		mg/L		97	95 - 116
Selenium, Total	ND		0.0400	0.0398		mg/L		100	90 - 115
Thallium, Total	ND		0.0400	0.0394		mg/L		98	94 - 115
Vanadium, Total	ND		0.0400	0.0380		mg/L		95	91 - 114
Zinc, Total	1.4		0.0400	1.37	4	mg/L		27	86 - 120

Lab Sample ID: 280-199664-B-1-E MS
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper, Total	0.0033		0.0400	0.0427		mg/L		98	89 - 116
Nickel, Total	ND		0.0400	0.0432		mg/L		102	92 - 116
Silver, Total	ND		0.0400	0.0400		mg/L		100	93 - 118

Lab Sample ID: 280-199664-B-1-E MS
Matrix: Water
Analysis Batch: 676002

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Total	1.1		0.0400	1.09	4	mg/L		11	89 - 119

Lab Sample ID: 280-199664-B-1-F MSD
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony, Total	ND		0.0400	0.0413		mg/L		103	80 - 111	3	20
Barium, Total	0.015		0.0400	0.0534		mg/L		97	92 - 117	3	20
Beryllium, Total	ND		0.0400	0.0390		mg/L		97	87 - 118	7	20
Cadmium, Total	0.0042		0.0400	0.0428		mg/L		97	91 - 114	2	20
Chromium, Total	ND	F1	0.0400	0.0362	F1	mg/L		88	91 - 114	2	20
Lead, Total	0.0059		0.0400	0.0452		mg/L		98	95 - 116	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-199664-B-1-F MSD
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium, Total	ND		0.0400	0.0393		mg/L		98	90 - 115	1	20
Thallium, Total	ND		0.0400	0.0399		mg/L		99	94 - 115	1	20
Vanadium, Total	ND		0.0400	0.0374		mg/L		93	91 - 114	2	20
Zinc, Total	1.4		0.0400	1.37	4	mg/L		18	86 - 120	0	20

Lab Sample ID: 280-199664-B-1-F MSD
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper, Total	0.0033		0.0400	0.0430		mg/L		99	89 - 116	1	20
Nickel, Total	ND		0.0400	0.0422		mg/L		100	92 - 116	2	20
Silver, Total	ND		0.0400	0.0396		mg/L		99	93 - 118	1	20

Lab Sample ID: 280-199664-B-1-F MSD
Matrix: Water
Analysis Batch: 676002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Total	1.1		0.0400	1.09	4	mg/L		26	89 - 119	1	20

Lab Sample ID: 280-200353-A-7-B MS
Matrix: Water
Analysis Batch: 677879

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 677555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc, Total	0.010		0.0400	0.0497		mg/L		99	86 - 120

Lab Sample ID: 280-200353-A-7-C MSD
Matrix: Water
Analysis Batch: 677879

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 677555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc, Total	0.010		0.0400	0.0499		mg/L		100	86 - 120	0	20

Lab Sample ID: MB 280-675365/1-A
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 21:02	1
Barium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 21:02	1
Beryllium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 21:02	1
Cadmium, Total	ND		0.00030		mg/L		11/18/24 08:31	11/18/24 21:02	1
Chromium, Total	ND		0.0030		mg/L		11/18/24 08:31	11/18/24 21:02	1
Lead, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 21:02	1
Selenium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 21:02	1
Thallium, Total	ND		0.0010		mg/L		11/18/24 08:31	11/18/24 21:02	1
Vanadium, Total	ND		0.0020		mg/L		11/18/24 08:31	11/18/24 21:02	1
Zinc, Total	ND		0.0050		mg/L		11/18/24 08:31	11/18/24 21:02	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 280-675365/1-A
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 21:18	1
Nickel, Total	ND		0.0040		mg/L		11/18/24 08:31	11/19/24 21:18	1
Silver, Total	ND		0.0020		mg/L		11/18/24 08:31	11/19/24 21:18	1

Lab Sample ID: MB 280-675365/1-A
Matrix: Water
Analysis Batch: 676002

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Total	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 12:52	1

Lab Sample ID: LCS 280-675365/24-A
Matrix: Water
Analysis Batch: 675612

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	0.0400	0.0404		mg/L		101	85 - 115
Barium, Total	0.0400	0.0397		mg/L		99	85 - 118
Beryllium, Total	0.0400	0.0396		mg/L		99	80 - 125
Cadmium, Total	0.0400	0.0378		mg/L		95	85 - 115
Chromium, Total	0.0400	0.0378		mg/L		94	84 - 121
Lead, Total	0.0400	0.0398		mg/L		100	85 - 118
Selenium, Total	0.0400	0.0403		mg/L		101	77 - 122
Thallium, Total	0.0400	0.0391		mg/L		98	85 - 118
Vanadium, Total	0.0400	0.0381		mg/L		95	85 - 120
Zinc, Total	0.0400	0.0424		mg/L		106	83 - 122

Lab Sample ID: LCS 280-675365/24-A
Matrix: Water
Analysis Batch: 675805

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper, Total	0.0400	0.0414		mg/L		104	85 - 119
Nickel, Total	0.0400	0.0430		mg/L		108	85 - 119
Silver, Total	0.0400	0.0411		mg/L		103	85 - 115

Lab Sample ID: LCS 280-675365/24-A
Matrix: Water
Analysis Batch: 676002

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Total	0.0400	0.0408		mg/L		102	85 - 117

Lab Sample ID: MB 280-675366/1-A
Matrix: Water
Analysis Batch: 675940

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/18/24 08:31	11/20/24 11:19	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-675366/24-A
Matrix: Water
Analysis Batch: 675940

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0400	0.0422		mg/L		106	85 - 117

Lab Sample ID: MB 280-677555/1-A
Matrix: Water
Analysis Batch: 677879

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc, Total	ND		0.0050		mg/L		12/06/24 07:59	12/09/24 15:51	1

Lab Sample ID: LCS 280-677555/21-A
Matrix: Water
Analysis Batch: 677879

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc, Total	0.0400	0.0396		mg/L		99	83 - 122

Lab Sample ID: 280-199640-A-6-E MS
Matrix: Water
Analysis Batch: 675940

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 675366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0069		0.0400	0.0530		mg/L		115	89 - 119

Lab Sample ID: 280-199640-A-6-F MSD
Matrix: Water
Analysis Batch: 675940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 675366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Dissolved	0.0069		0.0400	0.0502		mg/L		108	89 - 119	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-676737/1-A
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676737

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		11/27/24 09:10	11/27/24 13:42	1

Lab Sample ID: LCS 280-676737/2-A
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00494		mg/L		99	84 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-199676-E-6-E MS
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 676737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00500	0.00488		mg/L		98	75 - 125

Lab Sample ID: 280-199676-E-6-F MSD
Matrix: Water
Analysis Batch: 677067

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 676737

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00496		mg/L		99	75 - 125	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-675408/39
Matrix: Water
Analysis Batch: 675408

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			11/17/24 03:04	1
Sulfate	ND		5.0		mg/L			11/17/24 03:04	1

Lab Sample ID: MB 280-675408/6
Matrix: Water
Analysis Batch: 675408

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			11/16/24 21:01	1
Sulfate	ND		5.0		mg/L			11/16/24 21:01	1

Lab Sample ID: LCS 280-675408/37
Matrix: Water
Analysis Batch: 675408

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	98.2		mg/L		98	90 - 110
Sulfate	100	100		mg/L		100	90 - 110

Lab Sample ID: LCS 280-675408/4
Matrix: Water
Analysis Batch: 675408

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	98.4		mg/L		98	90 - 110
Sulfate	100	99.4		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-675408/38
Matrix: Water
Analysis Batch: 675408

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
Chloride	100	96.8		mg/L		97	90 - 110	4	10
Sulfate	100	98.4		mg/L		98	90 - 110	4	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-675408/5
Matrix: Water
Analysis Batch: 675408

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
Chloride			100	98.3		mg/L		98	90 - 110	0	10
Sulfate			100	99.4		mg/L		99	90 - 110	0	10

Lab Sample ID: MRL 280-675408/3
Matrix: Water
Analysis Batch: 675408

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.42		mg/L		108	50 - 150		
Sulfate			5.00	5.41		mg/L		108	50 - 150		

Lab Sample ID: 280-199650-2 MS
Matrix: Water
Analysis Batch: 675408

Client Sample ID: MW-36A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		50.0	53.8		mg/L		108	80 - 120		
Sulfate	ND		50.0	54.5		mg/L		109	80 - 120		

Lab Sample ID: 280-199650-2 MSD
Matrix: Water
Analysis Batch: 675408

Client Sample ID: MW-36A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	56.7		mg/L		113	80 - 120	5	20
Sulfate	ND		50.0	57.6		mg/L		115	80 - 120	6	20

Lab Sample ID: 280-199650-2 DU
Matrix: Water
Analysis Batch: 675408

Client Sample ID: MW-36A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	ND			ND		mg/L				NC	15
Sulfate	ND			ND		mg/L				NC	15

Lab Sample ID: MB 280-675466/6
Matrix: Water
Analysis Batch: 675466

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0			mg/L			11/18/24 11:08	1

Lab Sample ID: LCS 280-675466/4
Matrix: Water
Analysis Batch: 675466

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	102		mg/L		102	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-675466/5
Matrix: Water
Analysis Batch: 675466

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
Chloride			100	102		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-675466/3
Matrix: Water
Analysis Batch: 675466

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.90		mg/L		98	50 - 150		

Lab Sample ID: 160-55953-J-6 MS
Matrix: Water
Analysis Batch: 675466

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7.8		50.0	59.2		mg/L		103	80 - 120		

Lab Sample ID: 160-55953-J-6 MSD
Matrix: Water
Analysis Batch: 675466

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.8		50.0	59.0		mg/L		103	80 - 120	0	20

Lab Sample ID: 160-55953-J-6 DU
Matrix: Water
Analysis Batch: 675466

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	7.8			7.98		mg/L				3	15

Lab Sample ID: MB 280-675630/6
Matrix: Water
Analysis Batch: 675630

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0			mg/L			11/19/24 18:43	1

Lab Sample ID: LCS 280-675630/4
Matrix: Water
Analysis Batch: 675630

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	103		mg/L		103	90 - 110		

Lab Sample ID: LCSD 280-675630/5
Matrix: Water
Analysis Batch: 675630

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
Chloride			100	105		mg/L		105	90 - 110	2	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 280-675630/3
Matrix: Water
Analysis Batch: 675630

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	5.03		mg/L		101	50 - 150

Lab Sample ID: 280-199319-A-1 MS
Matrix: Water
Analysis Batch: 675630

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20		50.0	73.8		mg/L		107	80 - 120

Lab Sample ID: 280-199319-A-1 MSD
Matrix: Water
Analysis Batch: 675630

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20		50.0	74.0		mg/L		107	80 - 120	0	20

Lab Sample ID: 280-199319-A-1 DU
Matrix: Water
Analysis Batch: 675630

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	20		20.2		mg/L		0.3	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-676336/136
Matrix: Water
Analysis Batch: 676336

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.030		mg/L			11/22/24 16:29	1

Lab Sample ID: LCS 280-676336/137
Matrix: Water
Analysis Batch: 676336

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	2.51	2.47		mg/L		98	90 - 110

Lab Sample ID: 280-199586-C-13 MS
Matrix: Water
Analysis Batch: 676336

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	ND		1.00	0.970		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-199586-C-13 MSD
Matrix: Water
Analysis Batch: 676336

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	ND		1.00	1.01		mg/L		101	90 - 110	4	10

Lab Sample ID: 280-199693-B-1 MS
Matrix: Water
Analysis Batch: 676336

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	0.44		1.00	1.34		mg/L		90	90 - 110

Lab Sample ID: 280-199693-B-1 MSD
Matrix: Water
Analysis Batch: 676336

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.44		1.00	1.37		mg/L		93	90 - 110	3	10

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 280-675967/18
Matrix: Water
Analysis Batch: 675967

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			11/20/24 14:04	1

Lab Sample ID: LCS 280-675967/19
Matrix: Water
Analysis Batch: 675967

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0999	0.107		mg/L		107	90 - 110

Lab Sample ID: 280-199595-K-3 MS
Matrix: Water
Analysis Batch: 675967

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	0.0999	0.111	F1	mg/L		111	90 - 110

Lab Sample ID: 280-199595-K-3 MSD
Matrix: Water
Analysis Batch: 675967

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	0.0999	0.107		mg/L		107	90 - 110	3	20

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-675904/2-A
Matrix: Water
Analysis Batch: 675914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675904

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		4.0		mg/L		11/20/24 12:46	11/20/24 13:13	1

Lab Sample ID: LCS 280-675904/1-A
Matrix: Water
Analysis Batch: 675914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Sulfide	17.0	9.60		mg/L		56	44 - 110

Lab Sample ID: 280-199656-B-9-B MS
Matrix: Water
Analysis Batch: 675914

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Sulfide	ND		17.0	10.4		mg/L		61	44 - 110

Lab Sample ID: 280-199656-B-9-C MSD
Matrix: Water
Analysis Batch: 675914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Sulfide	ND		17.0	9.60		mg/L		56	44 - 110	8	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-676072/90
Matrix: Water
Analysis Batch: 676072

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		10		mg/L			11/21/24 02:58	1
Alkalinity, Bicarbonate (As CaCO3)	ND		10		mg/L			11/21/24 02:58	1

Lab Sample ID: LCS 280-676072/88
Matrix: Water
Analysis Batch: 676072

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	200	190		mg/L		95	89 - 110

Lab Sample ID: LCSD 280-676072/89
Matrix: Water
Analysis Batch: 676072

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
Alkalinity, Total (As CaCO3)	200	190		mg/L		95	89 - 110	0	10

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-199650-1 DU
Matrix: Water
Analysis Batch: 676072

Client Sample ID: MW-15R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total (As CaCO3)	73			73.9		mg/L				0.7	10
Alkalinity, Bicarbonate (As CaCO3)	73			73.9		mg/L				0.7	20

Lab Sample ID: MB 280-676248/6
Matrix: Water
Analysis Batch: 676248

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		10		mg/L			11/21/24 18:41	1
Alkalinity, Bicarbonate (As CaCO3)	ND		10		mg/L			11/21/24 18:41	1

Lab Sample ID: LCS 280-676248/4
Matrix: Water
Analysis Batch: 676248

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity, Total (As CaCO3)			200	186		mg/L		93	89 - 110		

Lab Sample ID: LCSD 280-676248/5
Matrix: Water
Analysis Batch: 676248

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
Alkalinity, Total (As CaCO3)			200	188		mg/L		94	89 - 110	1	10

Lab Sample ID: 280-199542-A-8 DU
Matrix: Water
Analysis Batch: 676248

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total (As CaCO3)	53			55.6		mg/L				5	10
Alkalinity, Bicarbonate (As CaCO3)	53			55.6		mg/L				5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-675821/1
Matrix: Water
Analysis Batch: 675821

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0		mg/L			11/20/24 09:14	1

Lab Sample ID: LCS 280-675821/2
Matrix: Water
Analysis Batch: 675821

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)			505	494		mg/L		98	88 - 114		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 280-199617-A-1 DU
Matrix: Water
Analysis Batch: 675821

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	92			92.0		mg/L				0	10

Lab Sample ID: MB 280-676026/1
Matrix: Water
Analysis Batch: 676026

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0		mg/L			11/21/24 09:22	1

Lab Sample ID: LCS 280-676026/2
Matrix: Water
Analysis Batch: 676026

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)			505	493		mg/L		98	88 - 114		

Lab Sample ID: 280-199642-F-1 DU
Matrix: Water
Analysis Batch: 676026

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	680			757		mg/L				10	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-675869/1
Matrix: Water
Analysis Batch: 675869

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/20/24 10:59	1

Lab Sample ID: LCS 280-675869/2
Matrix: Water
Analysis Batch: 675869

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			505	469		mg/L		93	79 - 114		

Lab Sample ID: 280-199640-A-13 DU
Matrix: Water
Analysis Batch: 675869

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	10

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: MB 280-675872/1
Matrix: Water
Analysis Batch: 675872

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/20/24 11:00	1

Lab Sample ID: LCS 280-675872/2
Matrix: Water
Analysis Batch: 675872

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			505	466		mg/L		92	79 - 114		

Lab Sample ID: 280-199723-C-6 DU
Matrix: Water
Analysis Batch: 675872

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	6.0			6.40		mg/L				6	10

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-676876/35
Matrix: Water
Analysis Batch: 676876

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			11/26/24 22:10	1

Lab Sample ID: MB 280-676876/68
Matrix: Water
Analysis Batch: 676876

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			11/27/24 06:14	1

Lab Sample ID: LCS 280-676876/34
Matrix: Water
Analysis Batch: 676876

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	24.4		mg/L		98	88 - 112		

Lab Sample ID: LCS 280-676876/67
Matrix: Water
Analysis Batch: 676876

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	25.4		mg/L		101	88 - 112		

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 280-199650-2 MS
Matrix: Water
Analysis Batch: 676876

Client Sample ID: MW-36A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	1.0		25.0	26.1		mg/L		100	88 - 112

Lab Sample ID: 280-199650-2 MSD
Matrix: Water
Analysis Batch: 676876

Client Sample ID: MW-36A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.0		25.0	26.6		mg/L		102	88 - 112	2	15

Lab Sample ID: 280-199650-4 MS
Matrix: Water
Analysis Batch: 676876

Client Sample ID: MW-39
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	2.8		25.0	27.1		mg/L		97	88 - 112

Lab Sample ID: 280-199650-4 MSD
Matrix: Water
Analysis Batch: 676876

Client Sample ID: MW-39
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	2.8		25.0	27.2		mg/L		98	88 - 112	0	15

Lab Sample ID: 280-199650-5 MS
Matrix: Water
Analysis Batch: 676876

Client Sample ID: MW-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	ND		25.0	25.9		mg/L		104	88 - 112

Lab Sample ID: 280-199650-5 MSD
Matrix: Water
Analysis Batch: 676876

Client Sample ID: MW-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	26.0		mg/L		104	88 - 112	0	15

Lab Sample ID: MB 280-676908/4
Matrix: Water
Analysis Batch: 676908

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			11/26/24 17:12	1

Lab Sample ID: LCS 280-676908/3
Matrix: Water
Analysis Batch: 676908

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.0		mg/L		96	88 - 112

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: 280-199674-A-2 MS
Matrix: Water
Analysis Batch: 676908

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	1.6		25.0	25.6		mg/L		96	88 - 112		

Lab Sample ID: 280-199674-A-2 MSD
Matrix: Water
Analysis Batch: 676908

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.6		25.0	25.5		mg/L		95	88 - 112	1	15

QC Association Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

GC/MS VOA

Analysis Batch: 675316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8260D SIM	
280-199650-2	MW-36A	Total/NA	Water	8260D SIM	
280-199650-3	DUP2	Total/NA	Water	8260D SIM	
280-199650-4	MW-39	Total/NA	Water	8260D SIM	
280-199650-5	MW-35	Total/NA	Water	8260D SIM	
280-199650-6	MW-13A	Total/NA	Water	8260D SIM	
280-199650-7	MW-13B	Total/NA	Water	8260D SIM	
280-199650-8	MW-35A	Total/NA	Water	8260D SIM	
280-199650-9	MW-33A	Total/NA	Water	8260D SIM	
280-199650-10	MW-33C	Total/NA	Water	8260D SIM	
280-199650-11	TRIP BLANKS	Total/NA	Water	8260D SIM	
MB 280-675316/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 280-675316/1002	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 280-675316/3	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 676768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8260D	
280-199650-2	MW-36A	Total/NA	Water	8260D	
280-199650-3	DUP2	Total/NA	Water	8260D	
280-199650-4	MW-39	Total/NA	Water	8260D	
280-199650-5	MW-35	Total/NA	Water	8260D	
280-199650-6	MW-13A	Total/NA	Water	8260D	
280-199650-7	MW-13B	Total/NA	Water	8260D	
280-199650-8	MW-35A	Total/NA	Water	8260D	
280-199650-9	MW-33A	Total/NA	Water	8260D	
280-199650-10	MW-33C	Total/NA	Water	8260D	
280-199650-11	TRIP BLANKS	Total/NA	Water	8260D	
MB 280-676768/9	Method Blank	Total/NA	Water	8260D	
LCS 280-676768/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-676768/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-676768/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-676768/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 732871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8260C	
MB 480-732871/8	Method Blank	Total/NA	Water	8260C	
LCS 480-732871/6	Lab Control Sample	Total/NA	Water	8260C	
480-225549-A-4 MS	Matrix Spike	Total/NA	Water	8260C	
480-225549-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 675636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	3510C	
MB 280-675636/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675636/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675636/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

QC Association Summary

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

GC/MS Semi VOA

Analysis Batch: 675811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8270E	675636
MB 280-675636/1-A	Method Blank	Total/NA	Water	8270E	675636
LCS 280-675636/2-A	Lab Control Sample	Total/NA	Water	8270E	675636
LCSD 280-675636/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	675636

GC Semi VOA

Prep Batch: 576900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8151A	
MB 410-576900/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-576900/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-576900/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 577067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8151A	576900
MB 410-576900/1-A	Method Blank	Total/NA	Water	8151A	576900
LCS 410-576900/2-A	Lab Control Sample	Total/NA	Water	8151A	576900
LCSD 410-576900/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	576900

Prep Batch: 675458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	3510C	
MB 280-675458/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675458/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-675458/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-675458/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-675458/8-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675458/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675458/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675458/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675458/9-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8082A	675458
MB 280-675458/1-A	Method Blank	Total/NA	Water	8082A	675458
LCS 280-675458/4-A	Lab Control Sample	Total/NA	Water	8082A	675458
LCSD 280-675458/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	675458

Prep Batch: 675621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	3510C	
MB 280-675621/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675621/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675621/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8081B	675458

GC Semi VOA (Continued)

Analysis Batch: 675683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-675458/1-A	Method Blank	Total/NA	Water	8081B	675458
LCS 280-675458/2-A	Lab Control Sample	Total/NA	Water	8081B	675458
LCS 280-675458/6-A	Lab Control Sample	Total/NA	Water	8081B	675458
LCS 280-675458/8-A	Lab Control Sample	Total/NA	Water	8081B	675458
LCSD 280-675458/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	675458
LCSD 280-675458/7-A	Lab Control Sample Dup	Total/NA	Water	8081B	675458
LCSD 280-675458/9-A	Lab Control Sample Dup	Total/NA	Water	8081B	675458

Analysis Batch: 675806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	8141B	675621
MB 280-675621/1-A	Method Blank	Total/NA	Water	8141B	675621
LCS 280-675621/2-A	Lab Control Sample	Total/NA	Water	8141B	675621
LCSD 280-675621/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	675621

Metals

Prep Batch: 675365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total Recoverable	Water	3005A	
280-199650-2	MW-36A	Total Recoverable	Water	3005A	
280-199650-3	DUP2	Total Recoverable	Water	3005A	
280-199650-4	MW-39	Total Recoverable	Water	3005A	
280-199650-5	MW-35	Total Recoverable	Water	3005A	
280-199650-6	MW-13A	Total Recoverable	Water	3005A	
280-199650-7	MW-13B	Total Recoverable	Water	3005A	
280-199650-8	MW-35A	Total Recoverable	Water	3005A	
280-199650-9	MW-33A	Total Recoverable	Water	3005A	
280-199650-10	MW-33C	Total Recoverable	Water	3005A	
MB 280-675365/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-675365/24-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-675365/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199664-B-1-B MS	Matrix Spike	Total/NA	Water	3005A	
280-199664-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	
280-199664-B-1-E MS	Matrix Spike	Total/NA	Water	3005A	
280-199664-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Prep Batch: 675366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Dissolved	Water	3005A	
280-199650-2	MW-36A	Dissolved	Water	3005A	
280-199650-3	DUP2	Dissolved	Water	3005A	
280-199650-4	MW-39	Dissolved	Water	3005A	
280-199650-5	MW-35	Dissolved	Water	3005A	
280-199650-6	MW-13A	Dissolved	Water	3005A	
280-199650-7	MW-13B	Dissolved	Water	3005A	
280-199650-8	MW-35A	Dissolved	Water	3005A	
280-199650-9	MW-33A	Dissolved	Water	3005A	
280-199650-10	MW-33C	Dissolved	Water	3005A	
MB 280-675366/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-675366/24-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 675366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-675366/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199640-A-6-B MS	Matrix Spike	Dissolved	Water	3005A	
280-199640-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
280-199640-A-6-E MS	Matrix Spike	Dissolved	Water	3005A	
280-199640-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 675612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total Recoverable	Water	6020B	675365
280-199650-2	MW-36A	Total Recoverable	Water	6020B	675365
280-199650-3	DUP2	Total Recoverable	Water	6020B	675365
280-199650-4	MW-39	Total Recoverable	Water	6020B	675365
280-199650-5	MW-35	Total Recoverable	Water	6020B	675365
280-199650-6	MW-13A	Total Recoverable	Water	6020B	675365
280-199650-7	MW-13B	Total Recoverable	Water	6020B	675365
280-199650-8	MW-35A	Total Recoverable	Water	6020B	675365
280-199650-9	MW-33A	Total Recoverable	Water	6020B	675365
280-199650-10	MW-33C	Total Recoverable	Water	6020B	675365
MB 280-675365/1-A	Method Blank	Total Recoverable	Water	6020B	675365
LCS 280-675365/24-A	Lab Control Sample	Total Recoverable	Water	6020B	675365
280-199664-B-1-E MS	Matrix Spike	Total/NA	Water	6020B	675365
280-199664-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	675365

Analysis Batch: 675676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total Recoverable	Water	6010D	675365
280-199650-2	MW-36A	Total Recoverable	Water	6010D	675365
280-199650-3	DUP2	Total Recoverable	Water	6010D	675365
280-199650-4	MW-39	Total Recoverable	Water	6010D	675365
280-199650-5	MW-35	Total Recoverable	Water	6010D	675365
280-199650-6	MW-13A	Total Recoverable	Water	6010D	675365
280-199650-7	MW-13B	Total Recoverable	Water	6010D	675365
280-199650-8	MW-35A	Total Recoverable	Water	6010D	675365
280-199650-9	MW-33A	Total Recoverable	Water	6010D	675365
280-199650-10	MW-33C	Total Recoverable	Water	6010D	675365
MB 280-675365/1-A	Method Blank	Total Recoverable	Water	6010D	675365
LCS 280-675365/2-A	Lab Control Sample	Total Recoverable	Water	6010D	675365
280-199664-B-1-B MS	Matrix Spike	Total/NA	Water	6010D	675365
280-199664-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010D	675365

Analysis Batch: 675805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total Recoverable	Water	6020B	675365
280-199650-2	MW-36A	Total Recoverable	Water	6020B	675365
280-199650-3	DUP2	Total Recoverable	Water	6020B	675365
280-199650-4	MW-39	Total Recoverable	Water	6020B	675365
280-199650-5	MW-35	Total Recoverable	Water	6020B	675365
280-199650-6	MW-13A	Total Recoverable	Water	6020B	675365
280-199650-7	MW-13B	Total Recoverable	Water	6020B	675365
280-199650-8	MW-35A	Total Recoverable	Water	6020B	675365
280-199650-9	MW-33A	Total Recoverable	Water	6020B	675365

Metals (Continued)

Analysis Batch: 675805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-10	MW-33C	Total Recoverable	Water	6020B	675365
MB 280-675365/1-A	Method Blank	Total Recoverable	Water	6020B	675365
LCS 280-675365/24-A	Lab Control Sample	Total Recoverable	Water	6020B	675365
280-199664-B-1-E MS	Matrix Spike	Total/NA	Water	6020B	675365
280-199664-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	675365

Analysis Batch: 675940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Dissolved	Water	6020B	675366
280-199650-2	MW-36A	Dissolved	Water	6020B	675366
280-199650-3	DUP2	Dissolved	Water	6020B	675366
280-199650-4	MW-39	Dissolved	Water	6020B	675366
280-199650-5	MW-35	Dissolved	Water	6020B	675366
280-199650-6	MW-13A	Dissolved	Water	6020B	675366
280-199650-7	MW-13B	Dissolved	Water	6020B	675366
280-199650-8	MW-35A	Dissolved	Water	6020B	675366
280-199650-9	MW-33A	Dissolved	Water	6020B	675366
280-199650-10	MW-33C	Dissolved	Water	6020B	675366
MB 280-675366/1-A	Method Blank	Total Recoverable	Water	6020B	675366
LCS 280-675366/24-A	Lab Control Sample	Total Recoverable	Water	6020B	675366
280-199640-A-6-E MS	Matrix Spike	Dissolved	Water	6020B	675366
280-199640-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	675366

Analysis Batch: 676002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-675365/1-A	Method Blank	Total Recoverable	Water	6020B	675365
LCS 280-675365/24-A	Lab Control Sample	Total Recoverable	Water	6020B	675365
280-199664-B-1-E MS	Matrix Spike	Total/NA	Water	6020B	675365
280-199664-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	675365

Prep Batch: 676737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	7470A	
MB 280-676737/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-676737/2-A	Lab Control Sample	Total/NA	Water	7470A	
280-199676-E-6-E MS	Matrix Spike	Total/NA	Water	7470A	
280-199676-E-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 676939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Dissolved	Water	6010D	675366
280-199650-2	MW-36A	Dissolved	Water	6010D	675366
280-199650-3	DUP2	Dissolved	Water	6010D	675366
280-199650-4	MW-39	Dissolved	Water	6010D	675366
280-199650-5	MW-35	Dissolved	Water	6010D	675366
280-199650-6	MW-13A	Dissolved	Water	6010D	675366
280-199650-7	MW-13B	Dissolved	Water	6010D	675366
280-199650-8	MW-35A	Dissolved	Water	6010D	675366
280-199650-9	MW-33A	Dissolved	Water	6010D	675366
280-199650-10	MW-33C	Dissolved	Water	6010D	675366
MB 280-675366/1-A	Method Blank	Total Recoverable	Water	6010D	675366

Metals (Continued)

Analysis Batch: 676939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-675366/2-A	Lab Control Sample	Total Recoverable	Water	6010D	675366
280-199640-A-6-B MS	Matrix Spike	Dissolved	Water	6010D	675366
280-199640-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	675366

Analysis Batch: 677067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	7470A	676737
MB 280-676737/1-A	Method Blank	Total/NA	Water	7470A	676737
LCS 280-676737/2-A	Lab Control Sample	Total/NA	Water	7470A	676737
280-199676-E-6-E MS	Matrix Spike	Total/NA	Water	7470A	676737
280-199676-E-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	676737

Prep Batch: 677555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total Recoverable	Water	3005A	
MB 280-677555/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-677555/21-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-200353-A-7-B MS	Matrix Spike	Total/NA	Water	3005A	
280-200353-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 677879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total Recoverable	Water	6020B	677555
MB 280-677555/1-A	Method Blank	Total Recoverable	Water	6020B	677555
LCS 280-677555/21-A	Lab Control Sample	Total Recoverable	Water	6020B	677555
280-200353-A-7-B MS	Matrix Spike	Total/NA	Water	6020B	677555
280-200353-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	677555

General Chemistry

Analysis Batch: 675408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	300.0	
280-199650-2	MW-36A	Total/NA	Water	300.0	
280-199650-3	DUP2	Total/NA	Water	300.0	
280-199650-4	MW-39	Total/NA	Water	300.0	
280-199650-5	MW-35	Total/NA	Water	300.0	
280-199650-6	MW-13A	Total/NA	Water	300.0	
280-199650-7	MW-13B	Total/NA	Water	300.0	
280-199650-8	MW-35A	Total/NA	Water	300.0	
280-199650-9	MW-33A	Total/NA	Water	300.0	
280-199650-10	MW-33C	Total/NA	Water	300.0	
MB 280-675408/39	Method Blank	Total/NA	Water	300.0	
MB 280-675408/6	Method Blank	Total/NA	Water	300.0	
LCS 280-675408/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-675408/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-675408/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-675408/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-675408/3	Lab Control Sample	Total/NA	Water	300.0	
280-199650-2 MS	MW-36A	Total/NA	Water	300.0	
280-199650-2 MSD	MW-36A	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 675408 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-2 DU	MW-36A	Total/NA	Water	300.0	

Analysis Batch: 675426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	353.2	
280-199650-2	MW-36A	Total/NA	Water	353.2	
280-199650-3	DUP2	Total/NA	Water	353.2	
280-199650-4	MW-39	Total/NA	Water	353.2	
280-199650-5	MW-35	Total/NA	Water	353.2	
280-199650-6	MW-13A	Total/NA	Water	353.2	
280-199650-7	MW-13B	Total/NA	Water	353.2	
280-199650-8	MW-35A	Total/NA	Water	353.2	
280-199650-9	MW-33A	Total/NA	Water	353.2	
280-199650-10	MW-33C	Total/NA	Water	353.2	

Analysis Batch: 675466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-3	DUP2	Total/NA	Water	300.0	
280-199650-4	MW-39	Total/NA	Water	300.0	
280-199650-5	MW-35	Total/NA	Water	300.0	
280-199650-6	MW-13A	Total/NA	Water	300.0	
280-199650-8	MW-35A	Total/NA	Water	300.0	
280-199650-9	MW-33A	Total/NA	Water	300.0	
280-199650-10	MW-33C	Total/NA	Water	300.0	
MB 280-675466/6	Method Blank	Total/NA	Water	300.0	
LCS 280-675466/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-675466/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-675466/3	Lab Control Sample	Total/NA	Water	300.0	
160-55953-J-6 MS	Matrix Spike	Total/NA	Water	300.0	
160-55953-J-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
160-55953-J-6 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 675630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	300.0	
MB 280-675630/6	Method Blank	Total/NA	Water	300.0	
LCS 280-675630/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-675630/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-675630/3	Lab Control Sample	Total/NA	Water	300.0	
280-199319-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-199319-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-199319-A-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 675821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-2	MW-36A	Total/NA	Water	SM 2540C	
280-199650-3	DUP2	Total/NA	Water	SM 2540C	
280-199650-4	MW-39	Total/NA	Water	SM 2540C	
280-199650-5	MW-35	Total/NA	Water	SM 2540C	
280-199650-6	MW-13A	Total/NA	Water	SM 2540C	
280-199650-7	MW-13B	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 675821 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-8	MW-35A	Total/NA	Water	SM 2540C	
280-199650-9	MW-33A	Total/NA	Water	SM 2540C	
280-199650-10	MW-33C	Total/NA	Water	SM 2540C	
MB 280-675821/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-675821/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-199617-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 675869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	SM 2540D	
280-199650-2	MW-36A	Total/NA	Water	SM 2540D	
280-199650-3	DUP2	Total/NA	Water	SM 2540D	
MB 280-675869/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-675869/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-199640-A-13 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 675872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-4	MW-39	Total/NA	Water	SM 2540D	
280-199650-5	MW-35	Total/NA	Water	SM 2540D	
280-199650-6	MW-13A	Total/NA	Water	SM 2540D	
280-199650-7	MW-13B	Total/NA	Water	SM 2540D	
280-199650-8	MW-35A	Total/NA	Water	SM 2540D	
280-199650-9	MW-33A	Total/NA	Water	SM 2540D	
280-199650-10	MW-33C	Total/NA	Water	SM 2540D	
MB 280-675872/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-675872/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-199723-C-6 DU	Duplicate	Total/NA	Water	SM 2540D	

Prep Batch: 675904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	9030B	
MB 280-675904/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-675904/1-A	Lab Control Sample	Total/NA	Water	9030B	
280-199656-B-9-B MS	Matrix Spike	Total/NA	Water	9030B	
280-199656-B-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 675914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	9034	675904
MB 280-675904/2-A	Method Blank	Total/NA	Water	9034	675904
LCS 280-675904/1-A	Lab Control Sample	Total/NA	Water	9034	675904
280-199656-B-9-B MS	Matrix Spike	Total/NA	Water	9034	675904
280-199656-B-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	675904

Analysis Batch: 675967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	9012B	
MB 280-675967/18	Method Blank	Total/NA	Water	9012B	
LCS 280-675967/19	Lab Control Sample	Total/NA	Water	9012B	
280-199595-K-3 MS	Matrix Spike	Total/NA	Water	9012B	

General Chemistry (Continued)

Analysis Batch: 675967 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199595-K-3 MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Analysis Batch: 676026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	SM 2540C	
MB 280-676026/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-676026/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-199642-F-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 676072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	SM 2320B	
280-199650-2	MW-36A	Total/NA	Water	SM 2320B	
280-199650-3	DUP2	Total/NA	Water	SM 2320B	
280-199650-4	MW-39	Total/NA	Water	SM 2320B	
280-199650-5	MW-35	Total/NA	Water	SM 2320B	
280-199650-6	MW-13A	Total/NA	Water	SM 2320B	
MB 280-676072/90	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-676072/88	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-676072/89	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-199650-1 DU	MW-15R	Total/NA	Water	SM 2320B	

Analysis Batch: 676248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-7	MW-13B	Total/NA	Water	SM 2320B	
280-199650-8	MW-35A	Total/NA	Water	SM 2320B	
280-199650-9	MW-33A	Total/NA	Water	SM 2320B	
280-199650-10	MW-33C	Total/NA	Water	SM 2320B	
MB 280-676248/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-676248/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-676248/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-199542-A-8 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 676336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	350.1	
280-199650-2	MW-36A	Total/NA	Water	350.1	
280-199650-3	DUP2	Total/NA	Water	350.1	
280-199650-4	MW-39	Total/NA	Water	350.1	
280-199650-5	MW-35	Total/NA	Water	350.1	
280-199650-6	MW-13A	Total/NA	Water	350.1	
280-199650-7	MW-13B	Total/NA	Water	350.1	
280-199650-8	MW-35A	Total/NA	Water	350.1	
280-199650-9	MW-33A	Total/NA	Water	350.1	
280-199650-10	MW-33C	Total/NA	Water	350.1	
MB 280-676336/136	Method Blank	Total/NA	Water	350.1	
LCS 280-676336/137	Lab Control Sample	Total/NA	Water	350.1	
280-199586-C-13 MS	Matrix Spike	Total/NA	Water	350.1	
280-199586-C-13 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
280-199693-B-1 MS	Matrix Spike	Total/NA	Water	350.1	
280-199693-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

General Chemistry

Analysis Batch: 676876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-2	MW-36A	Total/NA	Water	SM 5310B	
280-199650-3	DUP2	Total/NA	Water	SM 5310B	
280-199650-4	MW-39	Total/NA	Water	SM 5310B	
280-199650-5	MW-35	Total/NA	Water	SM 5310B	
280-199650-6	MW-13A	Total/NA	Water	SM 5310B	
280-199650-7	MW-13B	Total/NA	Water	SM 5310B	
280-199650-8	MW-35A	Total/NA	Water	SM 5310B	
280-199650-9	MW-33A	Total/NA	Water	SM 5310B	
280-199650-10	MW-33C	Total/NA	Water	SM 5310B	
MB 280-676876/35	Method Blank	Total/NA	Water	SM 5310B	
MB 280-676876/68	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-676876/34	Lab Control Sample	Total/NA	Water	SM 5310B	
LCS 280-676876/67	Lab Control Sample	Total/NA	Water	SM 5310B	
280-199650-2 MS	MW-36A	Total/NA	Water	SM 5310B	
280-199650-2 MSD	MW-36A	Total/NA	Water	SM 5310B	
280-199650-4 MS	MW-39	Total/NA	Water	SM 5310B	
280-199650-4 MSD	MW-39	Total/NA	Water	SM 5310B	
280-199650-5 MS	MW-35	Total/NA	Water	SM 5310B	
280-199650-5 MSD	MW-35	Total/NA	Water	SM 5310B	

Analysis Batch: 676908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	SM 5310B	
MB 280-676908/4	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-676908/3	Lab Control Sample	Total/NA	Water	SM 5310B	
280-199674-A-2 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-199674-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Field Service / Mobile Lab

Analysis Batch: 676586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199650-1	MW-15R	Total/NA	Water	Field Sampling	
280-199650-2	MW-36A	Total/NA	Water	Field Sampling	
280-199650-4	MW-39	Total/NA	Water	Field Sampling	
280-199650-5	MW-35	Total/NA	Water	Field Sampling	
280-199650-6	MW-13A	Total/NA	Water	Field Sampling	
280-199650-7	MW-13B	Total/NA	Water	Field Sampling	
280-199650-8	MW-35A	Total/NA	Water	Field Sampling	
280-199650-9	MW-33A	Total/NA	Water	Field Sampling	
280-199650-10	MW-33C	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-15R
Date Collected: 11/14/24 11:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	732871	11/19/24 15:52	AD	EET BUF
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 11:25	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 18:42	KJG	EET DEN
Total/NA	Prep	3510C			250 mL	1 mL	675636	11/19/24 11:40	DN	EET DEN
Total/NA	Analysis	8270E		1			675811	11/20/24 12:32	MAB	EET DEN
Total/NA	Prep	3510C			1044.9 mL	10 mL	675458	11/18/24 11:16	DN	EET DEN
Total/NA	Analysis	8081B		1	1 mL	1 mL	675683	11/20/24 04:30	SMQ	EET DEN
Total/NA	Prep	3510C			1044.9 mL	10 mL	675458	11/18/24 11:16	DN	EET DEN
Total/NA	Analysis	8082A		1	1 mL	1 mL	675600	11/19/24 18:27	SP	EET DEN
Total/NA	Prep	3510C			1026.9 mL	2 mL	675621	11/19/24 11:36	DN	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	675806	11/20/24 14:10	SP	EET DEN
Total/NA	Prep	8151A			1052.8 mL	10 mL	576900	11/19/24 14:58	QJZ6	ELLE
Total/NA	Analysis	8151A		1			577067	11/20/24 13:41	UAMZ	ELLE
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 03:29	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/18/24 23:23	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 12:54	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:03	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:04	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	677555	12/06/24 07:59	SMK	EET DEN
Total Recoverable	Analysis	6020B		1			677879	12/09/24 17:27	LMT	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	676737	11/27/24 09:10	CAF	EET DEN
Total/NA	Analysis	7470A		1			677067	11/27/24 14:20	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675630	11/19/24 22:04	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 03:59	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 16:54	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	9012B		1	10 mL	10 mL	675967	11/20/24 14:44	LBR	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	675904	11/20/24 12:46	CAI	EET DEN
Total/NA	Analysis	9034		1			675914	11/20/24 13:13	CAI	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 03:03	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	676026	11/21/24 09:22	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676908	11/27/24 00:51	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 12:50	P1C	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-36A
Date Collected: 11/14/24 12:50
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 11:46	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 19:03	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 03:44	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/18/24 23:29	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 12:57	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:07	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:08	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 03:15	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:20	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 03:12	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 06:45	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 13:50	P1C	EET DEN

Client Sample ID: DUP2
Date Collected: 11/14/24 13:00
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 12:07	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 19:24	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 03:47	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/18/24 23:35	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:04	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:18	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:19	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675466	11/18/24 19:30	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 04:10	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:22	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 03:16	EL	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: DUP2
Lab Sample ID: 280-199650-3
Date Collected: 11/14/24 13:00
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675869	11/20/24 10:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 07:28	GMW	EET DEN

Client Sample ID: MW-39
Lab Sample ID: 280-199650-4
Date Collected: 11/14/24 14:25
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 12:28	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 19:45	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 03:51	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/18/24 23:41	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:28	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:21	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:23	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675466	11/18/24 19:41	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 01:47	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:24	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 03:21	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675872	11/20/24 11:00	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/26/24 22:40	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 15:25	P1C	EET DEN

Client Sample ID: MW-35
Lab Sample ID: 280-199650-5
Date Collected: 11/14/24 11:33
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 12:49	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 20:06	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 03:55	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/18/24 23:47	NKC	EET DEN

Client Sample ID: MW-35
Lab Sample ID: 280-199650-5

Date Collected: 11/14/24 11:33
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:30	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:25	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:26	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675466	11/18/24 19:52	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 02:09	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:27	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 03:25	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675872	11/20/24 11:00	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 02:34	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 12:33	P1C	EET DEN

Client Sample ID: MW-13A
Lab Sample ID: 280-199650-6

Date Collected: 11/14/24 10:01
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 13:10	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 20:27	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 03:58	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/18/24 23:53	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:33	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:28	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:30	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675466	11/18/24 20:03	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 01:58	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:29	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676072	11/21/24 03:30	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675872	11/20/24 11:00	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 08:58	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 11:01	P1C	EET DEN

Client Sample ID: MW-13B

Date Collected: 11/14/24 10:41
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 13:31	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 20:48	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 04:02	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/18/24 23:58	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:35	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:32	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:33	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 01:36	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:31	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676248	11/21/24 19:57	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675872	11/20/24 11:00	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 09:13	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 11:41	P1C	EET DEN

Client Sample ID: MW-35A

Date Collected: 11/14/24 12:20
Date Received: 11/15/24 09:10

Lab Sample ID: 280-199650-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 13:53	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 21:09	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 04:06	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/19/24 00:04	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:38	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:35	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:37	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675466	11/18/24 21:22	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 01:14	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:33	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676248	11/21/24 20:02	EL	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-35A
Lab Sample ID: 280-199650-8
Date Collected: 11/14/24 12:20
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675872	11/20/24 11:00	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 09:28	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 13:20	P1C	EET DEN

Client Sample ID: MW-33A
Lab Sample ID: 280-199650-9
Date Collected: 11/14/24 14:00
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 14:14	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 21:30	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 04:09	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/19/24 00:09	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:40	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:39	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:41	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675466	11/18/24 21:34	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 01:03	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:35	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676248	11/21/24 20:06	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675872	11/20/24 11:00	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 09:42	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 15:00	P1C	EET DEN

Client Sample ID: MW-33C
Lab Sample ID: 280-199650-10
Date Collected: 11/14/24 14:47
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 14:35	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 21:50	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 04:13	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6010D		1			675676	11/19/24 00:31	NKC	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199650-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: MW-33C
Lab Sample ID: 280-199650-10
Date Collected: 11/14/24 14:47
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	675366	11/18/24 08:31	SMK	EET DEN
Dissolved	Analysis	6020B		1			675940	11/20/24 13:43	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675612	11/18/24 22:43	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	675365	11/18/24 08:31	AMH	EET DEN
Total Recoverable	Analysis	6020B		1			675805	11/19/24 22:44	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675466	11/18/24 21:45	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	675408	11/17/24 01:25	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	676336	11/22/24 17:38	LBR	EET DEN
Total/NA	Analysis	353.2		1			675426	11/18/24 00:35	PS1	EET DEN
Total/NA	Analysis	SM 2320B		1			676248	11/21/24 20:11	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	675821	11/20/24 09:14	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675872	11/20/24 11:00	BRD	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	676876	11/27/24 09:57	GMW	EET DEN
Total/NA	Analysis	Field Sampling		1			676586	11/14/24 15:47	P1C	EET DEN

Client Sample ID: TRIP BLANKS
Lab Sample ID: 280-199650-11
Date Collected: 11/14/24 10:01
Matrix: Water
Date Received: 11/15/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	676768	11/27/24 07:54	MD	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	675316	11/15/24 15:31	KJG	EET DEN

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

11 December 2024

Janice Collins
Eurofins - Test America - Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Olympic View Sanitary LF (OVSL) w/SCS Engineers (28002692)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
24K0530	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Shelly Fishel, Project Manager

Cert# 100006-012

Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24K0530	Turn-around Requested: Standard	Date: 11/18/24	
AR Client Company: SCS Engineers	Phone: 425-507-6703	Page: 1 of 2	
Client Contact: Jovany Estrada		No. of Coolers:	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.27	Samplers: JE/AD		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low level Arsenic	Notes/Comments
MW-13A	11/14/24	1001	water	1		
MW-13B		1041				
MW-15R		1150				
MW-35		1133				
MW-19C	11/13/24	1105				
MW-29A		1338				
MW-32		1220				
DUP 1		1348				
MW-33A	11/14/24	1400				
MW-33C		1447				

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Jovany Estrada	Printed Name: Emma Stewart	Printed Name:	Printed Name:
	Company: SCS	Company: ARLLC	Company:	Company:
	Date & Time:	Date & Time: 11/19/24 13:30	Date & Time:	Date & Time:

Limits of Liability: *Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.*

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24K0530	Turn-around Requested: standard
AR Client Company: SCS Engineers	Phone: 425-507-6703
Client Contact: Jovany Estrada	
Client Project Name: OVSL	
Client Project #: 042040027.27	Samplers: JE/AD

Date: 11/18/24
Page: 2 of 2
No. of Coolers: 1
Cooler Temps: 3.4

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low level Arsenic	Notes/Comments
MW-34A	11/13/24	1240	water	1		
MW-34C	↓	1135	↓	↓		
MW-35A	11/14/24	1220				
MW-36A	↓	1250				
MW-39	↓	1425				
MW-42	11/13/24	1510				
MW-43	↓	1340				
DUP 2	11/14/24	1300	↓	↓	↓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Jovany Estrada	Printed Name: Emme Stevens	Printed Name:	Printed Name:
	Company: SCS	Company: ARLLC	Company:	Company:
	Date & Time:	Date & Time: 11/19/24 1330	Date & Time:	Date & Time:

Limits of Liability: *Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.*

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13A	24K0530-01	Water	14-Nov-2024 10:01	18-Nov-2024 11:30
MW-13B	24K0530-02	Water	14-Nov-2024 10:41	18-Nov-2024 11:30
MW-15R	24K0530-03	Water	14-Nov-2024 11:50	18-Nov-2024 11:30
MW-35	24K0530-04	Water	14-Nov-2024 11:33	18-Nov-2024 11:30
MW-19C	24K0530-05	Water	13-Nov-2024 11:05	18-Nov-2024 11:30
MW-29A	24K0530-06	Water	13-Nov-2024 13:38	18-Nov-2024 11:30
MW-32	24K0530-07	Water	13-Nov-2024 12:20	18-Nov-2024 11:30
DUP 1	24K0530-08	Water	13-Nov-2024 13:48	18-Nov-2024 11:30
MW-33A	24K0530-09	Water	14-Nov-2024 14:00	18-Nov-2024 11:30
MW-33C	24K0530-10	Water	14-Nov-2024 14:47	18-Nov-2024 11:30
MW-34A	24K0530-11	Water	13-Nov-2024 12:40	18-Nov-2024 11:30
MW-34C	24K0530-12	Water	13-Nov-2024 11:35	18-Nov-2024 11:30
MW-35A	24K0530-13	Water	14-Nov-2024 12:20	18-Nov-2024 11:30
MW-36A	24K0530-14	Water	14-Nov-2024 12:50	18-Nov-2024 11:30
MW-39	24K0530-15	Water	14-Nov-2024 14:25	18-Nov-2024 11:30
MW-42	24K0530-16	Water	13-Nov-2024 15:10	18-Nov-2024 11:30
MW-43	24K0530-17	Water	13-Nov-2024 13:40	18-Nov-2024 11:30
DUP 2	24K0530-18	Water	14-Nov-2024 13:00	18-Nov-2024 11:30

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers
Project Number: 28002692
Work Order: 24K0530

Sample receipt

Samples as listed on the preceding page were received 18-Nov-2024 11:30 under ARI work order 24K0530. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Metals - EPA Method 6020B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

WORK ORDER

24K0530

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Eurofins - Test America - Denver **Project Manager:** Shelly Fishel

Project: Olympic View Sanitary LF (OVSL) w/SCS Engine **Project Number:** 28002692 (Job# please enter)

Preservation Confirmation

Container ID	Container Type	pH
24K0530-01 A	HDPE NM, 250mL HNO3	<2 Pass
24K0530-02 A	HDPE NM, 250mL HNO3	
24K0530-03 A	HDPE NM, 250mL HNO3	
24K0530-04 A	HDPE NM, 250mL HNO3	
24K0530-05 A	HDPE NM, 250mL HNO3	
24K0530-06 A	HDPE NM, 250mL HNO3	
24K0530-07 A	HDPE NM, 250mL HNO3	
24K0530-08 A	HDPE NM, 250mL HNO3	
24K0530-09 A	HDPE NM, 250mL HNO3	
24K0530-10 A	HDPE NM, 250mL HNO3	
24K0530-11 A	HDPE NM, 250mL HNO3	
24K0530-12 A	HDPE NM, 250mL HNO3	
24K0530-13 A	HDPE NM, 250mL HNO3	
24K0530-14 A	HDPE NM, 250mL HNO3	
24K0530-15 A	HDPE NM, 250mL HNO3	
24K0530-16 A	HDPE NM, 250mL HNO3	
24K0530-17 A	HDPE NM, 250mL HNO3	
24K0530-18 A	HDPE NM, 250mL HNO3	

RL
Preservation Confirmed By

11-21-24
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins Denver SCS Engineers Project Name: OVSL

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other:____

Assigned ARI Job No: 24K0530 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) Time 15:30 3.4 ____ ____ ____ ____ ____ Temp Gun ID#: 8117		
Was a temperature blank included in the cooler?	YES	(NO)
Were coolers received between 0°- 6° (°C)	(YES)	NO
Was sufficient ice used (if appropriate)?	NA (YES)	NO

Cooler Accepted by: ES Date: 11/18/24 Time: 13:30

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block N/A Other: _____

Are any samples that were out of temperature compliance documented in LIMS?		YES	(NO)
How were bottles sealed in plastic bags?	Individually	Grouped	(Not)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		YES	(NO)
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		YES	(NO)
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RL Date: 11-21-24 Time: 11:13 Labels checked by: RL

*** Notify Project Manager of discrepancies or concerns ***

Additional Notes, Discrepancies, & Resolutions:

There are two 34C samples and missing 34A.

Determined which sample by the sample time. Added detail Shelly Fishel 11/23/2024

By: Date:

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-13A
24K0530-01 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 10:01
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:19

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-01 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.208	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-13B

24K0530-02 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 10:41

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:22

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-02 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.330	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-15R

24K0530-03 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 11:50

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:26

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-03 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.238	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-35

24K0530-04 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 11:33
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:29

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-04 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.381	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-19C

24K0530-05 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 11:05
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:33

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-05 A 01
Preparation Batch: BML0007 — Sample Size: 100 mL
Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.08	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-29A

24K0530-06 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:38

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:36

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-06 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.20	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-32

24K0530-07 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 12:20

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:40

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-07 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	9.30	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

DUP 1

24K0530-08 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:48

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:43

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-08 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.09	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-33A

24K0530-09 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:00

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:20

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-09 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	2	0.0149	0.0800	0.125	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-33C

24K0530-10 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:47

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 21:47

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-10 A 01

Preparation Batch: BML0007 — Sample Size: 100 mL

Prepared: 12/02/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.70	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-34A

24K0530-11 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 12:40

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:24

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-11 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	2	0.0149	0.0800	3.00	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-34C

24K0530-12 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 11:35

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 19:27

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-12 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0373	0.200	13.4	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-35A

24K0530-13 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 12:20

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:03

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-13 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.115	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-36A

24K0530-14 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 12:50

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/09/2024 20:57

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-14 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.499	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-39

24K0530-15 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 14:25

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:10

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-15 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	1.23	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-42

24K0530-16 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 15:10

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:14

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-16 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	2.50	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

MW-43

24K0530-17 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/13/2024 13:40

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:17

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-17 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.0536	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

DUP 2

24K0530-18 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/14/2024 13:00

Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 22:21

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0530-18 A 01

Preparation Batch: BML0033 — Sample Size: 100 mL

Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.463	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0007 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0007-BLK1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:03						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0007-BS1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:07						
Arsenic	75a	4.71	0.00746	0.0400	ug/L	5.00		94.2	80-120			
LCS Dup (BML0007-BSD1)						Prepared: 02-Dec-2024 Analyzed: 05-Dec-2024 19:10						
Arsenic	75a	4.75	0.00746	0.0400	ug/L	5.00		95.0	80-120	0.85	20	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0033 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0033-BLK1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:14						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0033-BS1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:17						
Arsenic	75a	4.74	0.00746	0.0400	ug/L	5.00		94.7	80-120			

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B UCT-KED in Water	
Arsenic-75a	WADOE,DoD-ELAP,ADEC,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	11-Dec-2024 15:01

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: JE/AD	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-17318-3224.1
Client Contact: Mr. Patrick Madej	Phone: 425-507-6703	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: WA	Page: 1 of 1
Company: Waste Management				Job #:
Address: 2615 Davis Street	Due Date Requested: standard			
City: San Leandro	TAT Requested (days):			
State, Zip: CA, 94577	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email:	WO #:			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692 - Seminnual GW Appl/II - May Nov			
Site: Washington	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 - Na2S2SO3
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)	TDS/Alks/Cl/SO4/NO3(cad)	6010D/6020B - Dissolved Metals (FF)	6010D/6020B - Total Metals	2540D - TSS	Ammonia/TOC	8260C - VOCs / 8260C-SIM_VC	8260C_SIM - Vinyl chloride	8260B - VOCs	6010D/7470A - Total Metals	8081A/8082 - Pest/PCBs	8141A - OP Pest	8270C - SVOCs	9034 - Total Sulfide	9012B_NP - Total Cyanide	8151A - Herb	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	N	S	A	A										
MW-15R	11/14/24	1150	G	W	Y	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Short Hold: NO3(cad)
MW-36A		1250		1			X	X	X	X	X	X											Extra Analyses are
Dup 2		1300																					App III for MW-15R
MW-39		1425																					
MW-~~EE~~35		1133																					
MW-13A		1001																					
MW-13B		1041																					
MW-35A		1220																					
MW-33A		1400																					
MW-33~~B~~C		1447																					
Trip Blanks												X											

280-199650 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tawny Gerlach	11/14/24 1530	SCS		11/15/24 9:10	ET DEN
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: 1.5, 1.5, 4.0 IR PASU (F 02

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CVSL

Site No.: ____ Sample Point: MW-15R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11424		:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or [N]

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: ____

Filter Device: (Y) or [N] (0.45 µ) or [ ] µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 19.21 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1130		1st 6.28	1st 160	10.2	6.3	7.7	645	
1135		2nd 6.24	2nd 159	10.0	6.2	0.8	123	
1138		3rd 6.25	3rd 159	10.0	3.9	0.7	140	
1141		4th 6.26	4th 159	10.0	3.6	0.7	150	
1144		6.28	159	10.0	3.4	0.8	176	
1147		6.29	159	10.0	3.2	0.8	197	
1150		6.36	159	10.0	3.0	0.8	207	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11424	6.36	159	10.0	3.0	0.8	207	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or (N)

FIELD COMMENTS

Specific Comments (including purge/well volume calculations if required):

9 6 25 psi Appl'l sample

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11,14,24	Jovany Estrada	je	SCS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL
Site No.:
Sample Point: MW-36A
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e, with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/14/24		:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged: Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N
Filter Device: (Y) or N (0.45 µ) or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: C
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): 31.70 (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: 02 (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1230		1st 6.58	1st 133	9.7	31	7.2	951	
1235		2nd 5.94	2nd 125	9.6	30	4.0	1004	
1238		3rd 5.94	3rd 125	9.6	30	4.0	1008	
1241		4th 5.93	4th 125	9.6	27	4.0	1027	
1244		5.93	125	9.6	27	4.0	1041	
1247		5.92	125	9.6	27	4.0	1050	
1250		5.92	125	9.6	27	4.0	1057	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/14/24	5.92	125	9.6	27	4.0	1057	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear
Odor: –
Color: –
Other: –

Weather Conditions (required daily, or as conditions change):
Direction/Speed: –
Outlook: –
Precipitation (Y) or N

Specific Comments (including purge/well volume calculations if required):

9.6.25 psi Dup 2 taken @ 1300 MW-36 31.80 DTW

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Jovani Estrada	JE	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-39 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
		120			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other: _____

X-Other: _____

Sample Tube Type: C

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 21.04 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 02 (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1405	1st	6.30	1.193	11.2	90	6.4	87	
1416	2nd	6.10	2.97	11.5	76	0.7	-62.2	
1413	3rd	6.10	2.95	11.7	1.73	0.6	-65.8	
1416	4th	6.04	2.75	11.7	58	0.8	-54.2	
1419		6.03	2.72	11.7	43	0.7	-54.6	
1422		6.03	2.72	11.7	42	0.2	-59.6	
1425		6.03	2.71	11.7	38	0.5	-60.8	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 14 24	6.03	2.71	11.7	3.8	0.5	-60.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

11/4/35 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Jovany Estrada	JE	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: DUSL

Site No.: | | | | |

Sample Point: MW-16 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24	1113	:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: _____

X-Other: _____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 6172 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 02 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1113	1st	6.67	1st 177	9.3	231	8.7	347.5	
1118	2nd	6.26	2nd 191	9.2	95.3	8.1	360.8	
1123	3rd	6.16	3rd 190	9.2	26.7	7.9	367.1	
1124	4th	6.14	4th 189	9.2	6.9	7.8	370.4	
1127		6.12	189	9.2	7.6	7.8	373.6	
1130		6.12	189	9.2	16.5	7.8	375.5	
1133		6.11	189	9.2	4.5	7.8	377.6	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State) These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 14 24	6.11	189	9.2	4.5	7.8	377.6	

Final Field Readings are required *(i.e record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: none Other: –

Weather Conditions (required daily, or as conditions change): Direction/Speed: – Outlook: Cloudy/Rain Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

9/16/50 psi

labelled as MW-35

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Arzo	[signature]	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: ____ Sample Point: MW-13A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24	:	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment... Dedicated: (Y) or N

Filter Device: (Y) or N (0.45 µ) or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other: ____

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____)

Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____)

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)
Depth to Water (DTW) (from TOC): 48.40 (ft)
Groundwater Elevation (site datum, from TOC): ____ (ft/msl)
Total Well Depth (from TOC): ____ (ft)
Stick Up (from ground elevation): ____ (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc, are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0941	1st	6.02	1st 251	12	33	81	305	
0946	2nd	6.27	2nd 249	11	35	73	304	
0949	3rd	6.34	3rd 242	11	33	71	336	
0952	4th	6.42	4th 241	11	35	70	317	
0955		6.48	240	11	35	69	347	
0958		6.52	239	11	36	69	346	
1001		6.57	239	11	37	68	348	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 14 24	6.57	239	11	37	68	348	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: none Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: NSW Outlook: — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

10/5/45 ps:

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11, 14, 24	Alex Perez	[signature]	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: | | | | | Sample Point: MW-13B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24	1024	20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: _____

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 62.21 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 6 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1021	1st	6.96	1239	9.6	3.6	8.8	269	
1026	2nd	6.21	1237	9.3	3.8	7.2	317	
1029	3rd	6.91	1237	9.2	3.9	7.2	3293	
1032	4th	7.01	1236	9.2	3.4	7.3	3340	
1035		7.11	1236	9.2	3.6	7.3	3391	
1038		7.16	1236	9.3	4.0	7.3	3437	
1041		7.21	1236	9.2	4.2	7.4	3450	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 14 24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: none Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

10/5/165 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Deck	[signature]	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CUSL

Site No.:

Sample Point: MW-35

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e, with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/14/24					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	73.31	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
		02	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1200		5.91	238	10.7	52	8.3	359.6	
2nd	1205		6.57	227	10.2	39	7.1	351.4	
3rd	1208		6.78	226	10.2	39	7.0	351.6	
4th	1211		6.91	226	10.1	43	7.0	353.4	
	1214		6.96	226	10.1	41	6.9	354.4	
	1217		7.00	226	10.1	46	6.9	355.5	
	1220		7.03	226	10.1	50	6.9	356.6	
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e, complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site, If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/14/24	7.03	226	10.1	50	6.9	356.6	

Final Field Readings are required *(i.e, record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — **Odor:** none — **Color:** — — **Other:** —

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** — **Outlook:** Cloudy **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

10/5/40 psi

labelled as MW-35A

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Dezzo	AT	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: | | | | | Sample Point: MW-33A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/14/24	1340	2:00			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other: _____

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable; B-Pressure; C-Vacuum; X-Other _____

Sample Tube Type: D — A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	393	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
		02	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1340	1st	6.61	1st 161	10.1	4500	8.6	330.0	
1344	2nd	6.07	2nd 124	10.1	394	3.7	323.9	
1348	3rd	5.98	3rd 119	10.0	127	3.7	325.4	
1351	4th	5.96	4th 144	9.9	99	2.6	326.4	
1354		5.98	146	10.2	98	2.0	318.4	
1357		5.99	149	9.8	89	1.5	311.0	
1400		6.02	151	9.7	91	1.2	304.1	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11/14/24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site*

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

9/16/15 PS:

Orange at begining of purge

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Rego	AR	SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUGL

Site No.:

Sample Point: MW-33C

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs.min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 14 24	1427	1:20			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other: ____

X-Other: ____

Sample Tube Type: C

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	169	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
		02	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc, are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1427		6.97	212	9.5	7.2	7.3	320.1	
2nd	1432		6.35	218	9.1	29.9	2.4	319.2	
3rd	1435		6.65	217	9.1	23.5	1.6	309.0	
4th	1438		6.82	216	9.1	18.8	1.3	303.3	
	1441		6.98	216	9.1	13.5	1.2	297.0	
	1444		7.12	216	9.1	9.4	1.1	290.3	
	1447		7.18	216	9.1	7.1	0.9	286.1	
	Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11 14 24	7.18	216	9.1	7.1	0.9	286.1	

Final Field Readings are required *(i e, record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

9/6/20 PST

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/24	Alex Deuzo	AM	SES

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy



Expanded Billable Stamp

FedEx

ORIGIN ID:PWTA

SHIP DATE: 14NOV24
ACTWGT: 60.10 LB
CAD: [illegible]E2560
DIM[illegible]7x15 IN

TO SAMPLE RECEIVING
ENVIRON TESTING – DEN
4955 YARROW ST

ARVADA CO 80002
(303) 736-0100
INV:
PO:
REF:
DEPT:

[illegible]S)

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TRK# 0667 8185 0749 6385

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280-199650 Waybill

Part # 166282-495-RRDB-EXP 07/25

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ARVADA, CO



ORIGIN ID:PWTA

SHIP DATE: 14NOV24
ACTWGT: 47.44 LB
CAD: /SSFE2560
DIMS: 24x14x14 IN

TO SAMPLE RECEIVING
EVNIRON TESTING – DENVER
4955 YARROW ST

ARVADA CO 80002 (US)
(303) 736-0100
INV:
PO:
REF:
DEPT:

FedEx Express

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TRK# 0667 8185 0749 6374

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Part # 166282-495-RRDB-EXP 07/25

Part # 156297-485 RRDS EXP 07/25
ORDER: 008802?1
0000176?
ENVIRON TESTING - DENVER
ARVADA, CO
Label to package.
ORIGIN ID:PWTA
SHIP DATE: 14NOV24
ACTWGT: 60.35 LB
CAD: /SSFE2560
DIMS: 22x16x14 IN
TO SAMPLE RECEIVING
ENVIRON TESTING - DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
REF:
DEPT:
(US)
FedEx Express
J244024091002uv
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80002
DEN
CO-US
TRK# 8185 0749 6363
0667
XA LAAA
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Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-724642.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 280-199650-1
Address: 2425 New Holland Pike,	Due Date Requested: 12/9/2024			
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Groundwater	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP 8151A, Herbicides (4) (Lancaster)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15R (280-199650-1)	11/14/24	11:50 Pacific	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	11-18-24 15:00	Fedex			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	11/19/24 10:30	ENET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R: 1.2 C: 1.2

Ver: 10/10/2024

4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-724638.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): State - Washington		Job #: 280-199650-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/9/2024			
City: Amherst	TAT Requested (days): N/A			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Groundwater	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C (MOD) Appendix II (short list spike)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15R (280-199650-1)	11/14/24	11:50 Pacific	G	Water			X	3	

Analysis Requested

Preservation Codes: -

Other: N/A

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/18/24 1500	eet den	VS	11-19-24 1100	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7 IR#SC Ice

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199650-1

Login Number: 199650
List Number: 1
Creator: Little, Matthew L

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199650-1

Login Number: 199650
List Number: 2
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo
List Creation: 11/19/24 11:36 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 IR#SC ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199650-1

Login Number: 199650
List Number: 3
Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/19/24 12:29 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	False	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

Generated 11/25/2024 2:43:05 PM

JOB DESCRIPTION

WA02|Olympic View Sanitary LF - Groundwater
App III Groundwater 3 yr ('18, '21, '24)

JOB NUMBER

280-199598-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

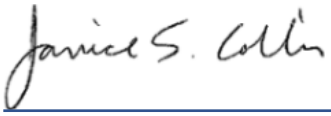
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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11/25/2024 2:43:05 PM

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-199598-1 Eurofins Denver

Job Narrative
280-199598-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 11/14/2024 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.1°C, 3.0°C, 3.5°C, 5.2°C and 5.7°C.

Receipt Exceptions
One 1L unpreserved amber glass container submitted for sample MW-42 (280-199598-3) was received with a cracked lid. No volume was observed to have leaked from the container; therefore, the lid was replaced and the lab will proceed with analysis.

One of eight 1L unpreserved Amber glass containers for the following sample was received broken :. Sufficient volume remains for all requested analyses.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-732871 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.The associated samples are impacted: TRIP BLANK (280-199598-1), MW-34C (280-199598-2) and MW-42 (280-199598-3).

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

GC/MS Semi VOA
Method 8270C: Due to the matrix being turbid, orange, and in combination of containing sediment an initial volume of 200 mL was used instead of 1000 mL for the following samples MW-42 (280-199598-3) in preparation batch 280-675824 in order to prevent emulsions deviated from the standard procedure. The reporting limits (RLs) have been adjusted proportionately.

Method 8270C: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675824.

Method 8270C: The continuing calibration verification (CCV) associated with batch 280-675996 recovered above the upper control limit for Famphur. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-34C (280-199598-2), MW-42 (280-199598-3) and (CCV 280-675996/7).

Method 8270C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 280-675824 and analytical batch 280-675996 recovered outside control limits for the following analyte(s): p-Phenylene diamine. p-Phenylene diamine 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.

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

Herbicides
Method 8151A: The laboratory control sample duplicate (LCSD) for preparation batch 410-576393 and analytical batch 410-576549 recovered outside control limits bias low for the following analyte: Dinoseb. The recovery for the analyte is 7% (the limit is 10-169%) but Dinoseb is a problematic compound to recover. The associated sample was not detected; therefore, the data have been reported. MW-34C (280-199598-2) and MW-42 (280-199598-3)

Method 8151A: The following sample was diluted due to the nature of the sample matrix: MW-42 (280-199598-3). Elevated reporting limits (RLs) are provided.

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

Pesticides
Method 8081A: Due to the matrix consisting of a yellow and turbid liquid, the initial volume used for the following MW-42 (280-199598-3) in preparation batch 280-675319 sample deviated from the standard procedure: 200 mL. used. The reporting limits (RLs) have been adjusted proportionately.

Method 8081A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-675319. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 8081, 8082, 608.3

Method 8141A: Due to the matrix being orange and turbid, the initial volume used for the following sample MW-42 (280-199598-3) in preparation batch 280-675621 deviated from the standard procedure. 500mL was used instead of the normal 1000mL. The reporting limits (RLs) have been adjusted proportionately.

Method 8141A: The continuing calibration verification (CCV) associated with preparation batch 280-675621 and analytical batch 280-675806 recovered above the upper control limit for Disulfoton and Phorate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-34C (280-199598-2), MW-42 (280-199598-3), (CCV 280-675806/16) and (CCVIS 280-675806/5).

Method 8141A: Internal Standard (ISTD) retention times for Tributyl phosphate in the following sample in preparation batch 280-675621 and analytical batch 280-675806 were outside the acceptance criteria of +/-0.03 minutes from the CCVIS: MW-34C (280-199598-2). The internal standard is not associated with any requested analytes; therefore the data is reported.

Method 8141A: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-675621. Method 8141/614

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

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

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

Detection Summary

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-199598-1

No Detections.

Client Sample ID: MW-34C — Lab Sample ID: 280-199598-2

No Detections.

Client Sample ID: MW-42 — Lab Sample ID: 280-199598-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET DEN
8081A	Organochlorine Pesticides (GC)	SW846	EET DEN
8141A	Organophosphorous Pesticides (GC)	SW846	EET DEN
8151A	Herbicides (GC)	SW846	ELLE
6010D	Metals (ICP)	SW846	EET DEN
9012B	Cyanide, Total and/or Amenable	SW846	EET DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
5030C	Purge and Trap	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	ELLE
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET DEN

Protocol References:

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Sample Summary

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199598-1	TRIP BLANK	Water	11/13/24 00:00	11/14/24 09:05
280-199598-2	MW-34C	Water	11/13/24 11:35	11/14/24 09:05
280-199598-3	MW-42	Water	11/13/24 15:10	11/14/24 09:05

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

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-199598-1
Date Collected: 11/13/24 00:00
Matrix: Water
Date Received: 11/14/24 09:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 14:45	1
Acetonitrile	ND		15		ug/L			11/19/24 14:45	1
Acrolein	ND		20		ug/L			11/19/24 14:45	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 14:45	1
Benzene	ND		1.0		ug/L			11/19/24 14:45	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 14:45	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 14:45	1
Bromoform	ND		1.0		ug/L			11/19/24 14:45	1
Bromomethane	ND		1.0		ug/L			11/19/24 14:45	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 14:45	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 14:45	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 14:45	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 14:45	1
Chloroprene	ND		1.0		ug/L			11/19/24 14:45	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 14:45	1
Chloroethane	ND		1.0		ug/L			11/19/24 14:45	1
Chloroform	ND		1.0		ug/L			11/19/24 14:45	1
Chloromethane	ND		1.0		ug/L			11/19/24 14:45	1
Allyl chloride	ND		1.0		ug/L			11/19/24 14:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 14:45	1
Dibromomethane	ND		1.0		ug/L			11/19/24 14:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 14:45	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 14:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 14:45	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 14:45	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 14:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 14:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 14:45	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 14:45	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 14:45	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 14:45	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 14:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 14:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 14:45	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 14:45	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 14:45	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 14:45	1
2-Hexanone	ND		5.0		ug/L			11/19/24 14:45	1
Iodomethane	ND		1.0		ug/L			11/19/24 14:45	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 14:45	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 14:45	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 14:45	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 14:45	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 14:45	1
Naphthalene	ND		1.0		ug/L			11/19/24 14:45	1
Propionitrile	ND		10		ug/L			11/19/24 14:45	1
Styrene	ND		1.0		ug/L			11/19/24 14:45	1

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

Client Sample ID: TRIP BLANK
Date Collected: 11/13/24 00:00
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 14:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 14:45	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 14:45	1
Toluene	ND		1.0		ug/L			11/19/24 14:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 14:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 14:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 14:45	1
Trichloroethene	ND		1.0		ug/L			11/19/24 14:45	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 14:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 14:45	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 14:45	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 14:45	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 14:45	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 14:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*11/19/24 14:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/19/24 14:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/19/24 14:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*11/19/24 14:45*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*11/19/24 14:45*	*1*

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 15:08	1
Acetonitrile	ND		15		ug/L			11/19/24 15:08	1
Acrolein	ND		20		ug/L			11/19/24 15:08	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 15:08	1
Benzene	ND		1.0		ug/L			11/19/24 15:08	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 15:08	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 15:08	1
Bromoform	ND		1.0		ug/L			11/19/24 15:08	1
Bromomethane	ND		1.0		ug/L			11/19/24 15:08	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 15:08	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 15:08	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 15:08	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 15:08	1
Chloroprene	ND		1.0		ug/L			11/19/24 15:08	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 15:08	1
Chloroethane	ND		1.0		ug/L			11/19/24 15:08	1
Chloroform	ND		1.0		ug/L			11/19/24 15:08	1
Chloromethane	ND		1.0		ug/L			11/19/24 15:08	1
Allyl chloride	ND		1.0		ug/L			11/19/24 15:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 15:08	1
Dibromomethane	ND		1.0		ug/L			11/19/24 15:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:08	1

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

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:08	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 15:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 15:08	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 15:08	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 15:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 15:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 15:08	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 15:08	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 15:08	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 15:08	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 15:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 15:08	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 15:08	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 15:08	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 15:08	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 15:08	1
2-Hexanone	ND		5.0		ug/L			11/19/24 15:08	1
Iodomethane	ND		1.0		ug/L			11/19/24 15:08	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 15:08	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 15:08	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 15:08	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 15:08	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 15:08	1
Naphthalene	ND		1.0		ug/L			11/19/24 15:08	1
Propionitrile	ND		10		ug/L			11/19/24 15:08	1
Styrene	ND		1.0		ug/L			11/19/24 15:08	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 15:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 15:08	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 15:08	1
Toluene	ND		1.0		ug/L			11/19/24 15:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 15:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 15:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 15:08	1
Trichloroethene	ND		1.0		ug/L			11/19/24 15:08	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 15:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 15:08	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 15:08	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 15:08	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 15:08	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 15:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*11/19/24 15:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*11/19/24 15:08*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/19/24 15:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*11/19/24 15:08*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/19/24 15:08*	*1*

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

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

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 15:30	1
Acetonitrile	ND		15		ug/L			11/19/24 15:30	1
Acrolein	ND		20		ug/L			11/19/24 15:30	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 15:30	1
Benzene	ND		1.0		ug/L			11/19/24 15:30	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 15:30	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 15:30	1
Bromoform	ND		1.0		ug/L			11/19/24 15:30	1
Bromomethane	ND		1.0		ug/L			11/19/24 15:30	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 15:30	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 15:30	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 15:30	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 15:30	1
Chloroprene	ND		1.0		ug/L			11/19/24 15:30	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 15:30	1
Chloroethane	ND		1.0		ug/L			11/19/24 15:30	1
Chloroform	ND		1.0		ug/L			11/19/24 15:30	1
Chloromethane	ND		1.0		ug/L			11/19/24 15:30	1
Allyl chloride	ND		1.0		ug/L			11/19/24 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 15:30	1
Dibromomethane	ND		1.0		ug/L			11/19/24 15:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 15:30	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 15:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 15:30	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 15:30	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 15:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 15:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 15:30	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 15:30	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 15:30	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 15:30	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 15:30	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 15:30	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 15:30	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 15:30	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 15:30	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 15:30	1
2-Hexanone	ND		5.0		ug/L			11/19/24 15:30	1
Iodomethane	ND		1.0		ug/L			11/19/24 15:30	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 15:30	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 15:30	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 15:30	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 15:30	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 15:30	1
Naphthalene	ND		1.0		ug/L			11/19/24 15:30	1
Propionitrile	ND		10		ug/L			11/19/24 15:30	1
Styrene	ND		1.0		ug/L			11/19/24 15:30	1

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

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 15:30	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 15:30	1
Toluene	ND		1.0		ug/L			11/19/24 15:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 15:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 15:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 15:30	1
Trichloroethene	ND		1.0		ug/L			11/19/24 15:30	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 15:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 15:30	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 15:30	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 15:30	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 15:30	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 15:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*11/19/24 15:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/19/24 15:30*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/19/24 15:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/19/24 15:30*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*11/19/24 15:30*	*1*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
1,3,5-Trinitrobenzene	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
1,3-Dinitrobenzene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
1,4-Naphthoquinone	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
1-Naphthylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,2'-oxybis(1-chloropropane)	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,3,4,6-Tetrachlorophenol	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,4,5-Trichlorophenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,4,6-Trichlorophenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,4-Dichlorophenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,4-Dimethylphenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,4-Dinitrophenol	ND		32		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,4-Dinitrotoluene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,6-Dichlorophenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2,6-Dinitrotoluene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2-Acetylaminofluorene	ND		110		ug/L		11/20/24 11:30	11/21/24 11:46	1
2-Chloronaphthalene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
2-Chlorophenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2-Methylnaphthalene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
2-Methylphenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2-Nitroaniline	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
2-Nitrophenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
3,3'-Dichlorobenzidine	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
3-Methylcholanthrene	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
3-Methylphenol & 4-Methylphenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
3-Nitroaniline	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
4,6-Dinitro-2-methylphenol	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Aminobiphenyl	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Bromophenyl phenyl ether	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Chloro-3-methylphenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Chloroaniline	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Chlorophenyl phenyl ether	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Dimethylaminoazobenzene	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Nitroaniline	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
4-Nitrophenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
5-Nitro-o-toluidine	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
7,12-Dimethylbenz(a)anthracene	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
Acenaphthene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Acenaphthylene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Acetophenone	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Anthracene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Benz(a)anthracene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Benzo(a)pyrene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Benzo(b)fluoranthene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Benzo(ghi)perylene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Benzo(k)fluoranthene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Benzyl alcohol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Bis(2-chloroethoxy)methane	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
bis(2-Chloroethyl) ether	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Bis(2-ethylhexyl) phthalate	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Butyl benzyl phthalate	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Chlorobenzilate	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Chrysene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Diallate	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
Dibenz(a,h)anthracene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Dibenzofuran	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Diethyl phthalate	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Dimethyl phthalate	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Di-n-butyl phthalate	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Di-n-octyl phthalate	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Diphenylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Ethyl methanesulfonate	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Famphur	ND		110		ug/L		11/20/24 11:30	11/21/24 11:46	1
Fluoranthene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Fluorene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Hexachlorobenzene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Hexachlorobutadiene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Hexachlorocyclopentadiene	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Hexachloropropene	ND		110		ug/L		11/20/24 11:30	11/21/24 11:46	1
Indeno(1,2,3-cd)pyrene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Isodrin	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Isophorone	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Isosafrole	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
Methapyrilene	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
Methyl methanesulfonate	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Methyl parathion	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
Nitrobenzene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosodiethylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosodimethylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosodi-n-butylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosodi-n-propylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosodiphenylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosomethylethylamine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosopiperidine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
N-Nitrosopyrrolidine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
O,O,O-Triethyl phosphorothioate	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
o-Toluidine	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Parathion	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
Pentachlorobenzene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Pentachloronitrobenzene	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
Pentachlorophenol	ND		54		ug/L		11/20/24 11:30	11/21/24 11:46	1
Phenacetin	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
Phenanthrene	ND		4.3		ug/L		11/20/24 11:30	11/21/24 11:46	1
Phenol	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
p-Phenylene diamine	ND	*-	110		ug/L		11/20/24 11:30	11/21/24 11:46	1
Pronamide	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1
Pyrene	ND		11		ug/L		11/20/24 11:30	11/21/24 11:46	1
Safrole	ND		21		ug/L		11/20/24 11:30	11/21/24 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*22 - 140*	*11/20/24 11:30*	*11/21/24 11:46*	*1*
2-Fluorobiphenyl	*67*		*28 - 120*	*11/20/24 11:30*	*11/21/24 11:46*	*1*
2-Fluorophenol	*31*		*13 - 120*	*11/20/24 11:30*	*11/21/24 11:46*	*1*
Nitrobenzene-d5	*71*		*34 - 120*	*11/20/24 11:30*	*11/21/24 11:46*	*1*
Phenol-d5	*19*		*10 - 120*	*11/20/24 11:30*	*11/21/24 11:46*	*1*
Terphenyl-d14	*85*		*55 - 142*	*11/20/24 11:30*	*11/21/24 11:46*	*1*

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
1,3,5-Trinitrobenzene	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
1,3-Dinitrobenzene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
1,4-Naphthoquinone	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
1-Naphthylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,2'-oxybis(1-chloropropane)	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,4,5-Trichlorophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,4,6-Trichlorophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,4-Dichlorophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,4-Dimethylphenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,4-Dinitrophenol	ND		150		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,4-Dinitrotoluene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,6-Dichlorophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2,6-Dinitrotoluene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Acetylaminofluorene	ND		500		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Chloronaphthalene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Chlorophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Methylnaphthalene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Methylphenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Naphthylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Nitroaniline	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
2-Nitrophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
3,3'-Dichlorobenzidine	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
3-Methylcholanthrene	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1
3-Methylphenol & 4-Methylphenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
3-Nitroaniline	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
4,6-Dinitro-2-methylphenol	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Aminobiphenyl	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Bromophenyl phenyl ether	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Chloro-3-methylphenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Chloroaniline	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Chlorophenyl phenyl ether	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Dimethylaminoazobenzene	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Nitroaniline	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
4-Nitrophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
5-Nitro-o-toluidine	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1
7,12-Dimethylbenz(a)anthracene	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1
Acenaphthene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Acenaphthylene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Acetophenone	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Anthracene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Benz(a)anthracene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Benzo(a)pyrene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Benzo(b)fluoranthene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Benzo(ghi)perylene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Benzo(k)fluoranthene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Benzyl alcohol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Bis(2-chloroethoxy)methane	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
bis(2-Chloroethyl) ether	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Bis(2-ethylhexyl) phthalate	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Butyl benzyl phthalate	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Chlorobenzilate	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Chrysene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Diallate	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Dibenzofuran	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Diethyl phthalate	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Dimethyl phthalate	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Di-n-butyl phthalate	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Di-n-octyl phthalate	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Diphenylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Ethyl methanesulfonate	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Famphur	ND		500		ug/L		11/20/24 11:30	11/21/24 12:08	1
Fluoranthene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Fluorene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Hexachlorobenzene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Hexachlorobutadiene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Hexachlorocyclopentadiene	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
Hexachloroethane	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Hexachloropropene	ND		500		ug/L		11/20/24 11:30	11/21/24 12:08	1
Indeno(1,2,3-cd)pyrene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Isodrin	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Isophorone	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Isosafrole	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1
Methapyrilene	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
Methyl methanesulfonate	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Methyl parathion	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
Nitrobenzene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosodiethylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosodimethylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosodi-n-butylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosodi-n-propylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosodiphenylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosomethylethylamine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosopiperidine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
N-Nitrosopyrrolidine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
O,O,O-Triethyl phosphorothioate	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
o-Toluidine	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Parathion	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
Pentachlorobenzene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Pentachloronitrobenzene	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
Pentachlorophenol	ND		250		ug/L		11/20/24 11:30	11/21/24 12:08	1
Phenacetin	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1
Phenanthrene	ND		20		ug/L		11/20/24 11:30	11/21/24 12:08	1
Phenol	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
p-Phenylene diamine	ND	*-	500		ug/L		11/20/24 11:30	11/21/24 12:08	1
Pronamide	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1
Pyrene	ND		50		ug/L		11/20/24 11:30	11/21/24 12:08	1
Safrole	ND		100		ug/L		11/20/24 11:30	11/21/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*22 - 140*	*11/20/24 11:30*	*11/21/24 12:08*	*1*
2-Fluorobiphenyl	*74*		*28 - 120*	*11/20/24 11:30*	*11/21/24 12:08*	*1*
2-Fluorophenol	*39*		*13 - 120*	*11/20/24 11:30*	*11/21/24 12:08*	*1*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*34 - 120*	*11/20/24 11:30*	*11/21/24 12:08*	*1*
Phenol-d5	*24*		*10 - 120*	*11/20/24 11:30*	*11/21/24 12:08*	*1*
Terphenyl-d14	*86*		*55 - 142*	*11/20/24 11:30*	*11/21/24 12:08*	*1*

Method: SW846 8081A - Organochlorine Pesticides (GC)

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
4,4'-DDE	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
4,4'-DDT	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Aldrin	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
alpha-BHC	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
beta-BHC	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
delta-BHC	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
gamma-BHC (Lindane)	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
cis-Chlordane	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Technical Chlordane	ND		0.52		ug/L		11/15/24 15:55	11/18/24 19:48	1
Dieldrin	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Endrin	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Endosulfan I	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Endosulfan II	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Endosulfan sulfate	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Endrin aldehyde	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Heptachlor	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Heptachlor epoxide	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Kepone	ND		1.0		ug/L		11/15/24 15:55	11/18/24 19:48	1
Methoxychlor	ND		0.10		ug/L		11/15/24 15:55	11/18/24 19:48	1
trans-Chlordane	ND		0.052		ug/L		11/15/24 15:55	11/18/24 19:48	1
Toxaphene	ND		2.1		ug/L		11/15/24 15:55	11/18/24 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*12 - 129*	*11/15/24 15:55*	*11/18/24 19:48*	*1*
DCB Decachlorobiphenyl	*76*		*10 - 157*	*11/15/24 15:55*	*11/18/24 19:48*	*1*

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05

Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
4,4'-DDE	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
4,4'-DDT	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Aldrin	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
alpha-BHC	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
beta-BHC	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
delta-BHC	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
gamma-BHC (Lindane)	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
cis-Chlordane	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1

Method: SW846 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Technical Chlordane	ND		2.5		ug/L		11/15/24 15:55	11/18/24 20:06	1
Dieldrin	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Endrin	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Endosulfan I	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Endosulfan II	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Endosulfan sulfate	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Endrin aldehyde	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Heptachlor	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Heptachlor epoxide	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Kepone	ND		5.0		ug/L		11/15/24 15:55	11/18/24 20:06	1
Methoxychlor	ND		0.50		ug/L		11/15/24 15:55	11/18/24 20:06	1
trans-Chlordane	ND		0.25		ug/L		11/15/24 15:55	11/18/24 20:06	1
Toxaphene	ND		10		ug/L		11/15/24 15:55	11/18/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*12 - 129*	*11/15/24 15:55*	*11/18/24 20:06*	*1*
DCB Decachlorobiphenyl	*74*		*10 - 157*	*11/15/24 15:55*	*11/18/24 20:06*	*1*

Method: SW846 8141A - Organophosphorous Pesticides (GC)

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.4		ug/L		11/19/24 11:36	11/20/24 16:06	1
Disulfoton	ND		0.97		ug/L		11/19/24 11:36	11/20/24 16:06	1
Phorate	ND		1.2		ug/L		11/19/24 11:36	11/20/24 16:06	1
Thionazin	ND		0.97		ug/L		11/19/24 11:36	11/20/24 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*79*		*27 - 120*	*11/19/24 11:36*	*11/20/24 16:06*	*1*
Triphenylphosphate	*105*		*42 - 120*	*11/19/24 11:36*	*11/20/24 16:06*	*1*

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		3.0		ug/L		11/19/24 11:36	11/20/24 16:44	1
Disulfoton	ND		2.0		ug/L		11/19/24 11:36	11/20/24 16:44	1
Phorate	ND		2.4		ug/L		11/19/24 11:36	11/20/24 16:44	1
Thionazin	ND		2.0		ug/L		11/19/24 11:36	11/20/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*81*		*27 - 120*	*11/19/24 11:36*	*11/20/24 16:44*	*1*
Triphenylphosphate	*109*		*42 - 120*	*11/19/24 11:36*	*11/20/24 16:44*	*1*

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.95		ug/L		11/18/24 15:06	11/19/24 14:19	1
2,4-D	ND		3.8		ug/L		11/18/24 15:06	11/19/24 14:19	1
Dinoseb	ND	*- *1	0.95		ug/L		11/18/24 15:06	11/19/24 14:19	1
2,4,5-TP (Silvex)	ND		0.95		ug/L		11/18/24 15:06	11/19/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*34 - 142*	*11/18/24 15:06*	*11/19/24 14:19*	*1*
2,4-Dichlorophenylacetic acid	*73*		*34 - 142*	*11/18/24 15:06*	*11/19/24 14:19*	*1*

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10		ug/L		11/18/24 15:06	11/19/24 14:47	10
2,4-D	ND		41		ug/L		11/18/24 15:06	11/19/24 14:47	10
Dinoseb	ND	*- *1	10		ug/L		11/18/24 15:06	11/19/24 14:47	10
2,4,5-TP (Silvex)	ND		10		ug/L		11/18/24 15:06	11/19/24 14:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*103*		*34 - 142*	*11/18/24 15:06*	*11/19/24 14:47*	*10*
2,4-Dichlorophenylacetic acid	*93*		*34 - 142*	*11/18/24 15:06*	*11/19/24 14:47*	*10*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		11/15/24 14:29	11/17/24 23:28	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		11/15/24 14:29	11/17/24 23:31	1

General Chemistry

Client Sample ID: MW-34C
Date Collected: 11/13/24 11:35
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010		mg/L			11/20/24 15:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide (SW846 9034)	ND		4.0		mg/L		11/20/24 14:49	11/20/24 16:18	1

Client Sample ID: MW-42
Date Collected: 11/13/24 15:10
Date Received: 11/14/24 09:05
Lab Sample ID: 280-199598-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010		mg/L			11/20/24 15:08	1

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide (SW846 9034)	ND		4.0		mg/L		11/20/24 14:49	11/20/24 16:18	1

Surrogate Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Job ID: 280-199598-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
280-199598-1	TRIP BLANK	100	97	104	99
280-199598-2	MW-34C	99	101	104	101
280-199598-3	MW-42	100	93	98	96
480-225549-A-4 MS	Matrix Spike	100	97	106	
480-225549-A-4 MSD	Matrix Spike Duplicate	104	96	105	
LCS 480-732871/6	Lab Control Sample	100	97	99	101
MB 480-732871/8	Method Blank	95	93	103	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(22-140)	(28-120)	(13-120)	(34-120)	(10-120)	(55-142)
280-199598-2	MW-34C	79	67	31	71	19	85
280-199598-3	MW-42	87	74	39	83	24	86
LCS 280-675824/2-A	Lab Control Sample	100	81	40	88	25	104
LCSD 280-675824/3-A	Lab Control Sample Dup	99	81	42	89	25	102
MB 280-675824/1-A	Method Blank	87	74	36	83	22	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(12-129)	(10-157)
280-199598-2	MW-34C	74	76
280-199598-3	MW-42	65	74
LCS 280-675319/2-A	Lab Control Sample	83	93
LCS 280-675319/6-A	Lab Control Sample	69	101
LCS 280-675319/8-A	Lab Control Sample	54	85
LCSD 280-675319/3-A	Lab Control Sample Dup	85	90
LCSD 280-675319/7-A	Lab Control Sample Dup	64	103
LCSD 280-675319/9-A	Lab Control Sample Dup	69	102
MB 280-675319/1-A	Method Blank	75	101

Surrogate Legend

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

DCBP = DCB Decachlorobiphenyl

Method: 8141A - Organophosphorous Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	CMF1 (27-120)	TPP1 (42-120)
280-199598-2	MW-34C	79	105
280-199598-3	MW-42	81	109
LCS 280-675621/2-A	Lab Control Sample	83	111
LCSD 280-675621/3-A	Lab Control Sample Dup	85	114
MB 280-675621/1-A	Method Blank	83	96

Surrogate Legend

CMF = Chlormefos

TPP = Triphenylphosphate

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (34-142)	DCPAA2 (34-142)
280-199598-2	MW-34C	83	73
280-199598-3	MW-42	103	93
LCS 410-576393/2-A	Lab Control Sample	87	77
LCSD 410-576393/3-A	Lab Control Sample Dup	95	88
MB 410-576393/1-A	Method Blank	68	57

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 480-732871/8
Matrix: Water
Analysis Batch: 732871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/19/24 11:50	1
Acetonitrile	ND		15		ug/L			11/19/24 11:50	1
Acrolein	ND		20		ug/L			11/19/24 11:50	1
Acrylonitrile	ND		5.0		ug/L			11/19/24 11:50	1
Benzene	ND		1.0		ug/L			11/19/24 11:50	1
Bromochloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Bromodichloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Bromoform	ND		1.0		ug/L			11/19/24 11:50	1
Bromomethane	ND		1.0		ug/L			11/19/24 11:50	1
2-Butanone (MEK)	ND		10		ug/L			11/19/24 11:50	1
Carbon disulfide	ND		1.0		ug/L			11/19/24 11:50	1
Carbon tetrachloride	ND		1.0		ug/L			11/19/24 11:50	1
Chlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
Chloroprene	ND		1.0		ug/L			11/19/24 11:50	1
Dibromochloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Chloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Chloroform	ND		1.0		ug/L			11/19/24 11:50	1
Chloromethane	ND		1.0		ug/L			11/19/24 11:50	1
Allyl chloride	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/24 11:50	1
Dibromomethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			11/19/24 11:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
1,2-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
2,2-Dichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
1,1-Dichloropropene	ND		1.0		ug/L			11/19/24 11:50	1
Ethylbenzene	ND		1.0		ug/L			11/19/24 11:50	1
Ethyl methacrylate	ND		1.0		ug/L			11/19/24 11:50	1
2-Hexanone	ND		5.0		ug/L			11/19/24 11:50	1
Iodomethane	ND		1.0		ug/L			11/19/24 11:50	1
Isobutyl alcohol	ND		25		ug/L			11/19/24 11:50	1
Methacrylonitrile	ND		5.0		ug/L			11/19/24 11:50	1
Methylene Chloride	ND		1.0		ug/L			11/19/24 11:50	1
Methyl methacrylate	ND		1.0		ug/L			11/19/24 11:50	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			11/19/24 11:50	1
Naphthalene	ND		1.0		ug/L			11/19/24 11:50	1
Propionitrile	ND		10		ug/L			11/19/24 11:50	1

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

Lab Sample ID: MB 480-732871/8
Matrix: Water
Analysis Batch: 732871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			11/19/24 11:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Tetrachloroethene	ND		1.0		ug/L			11/19/24 11:50	1
Toluene	ND		1.0		ug/L			11/19/24 11:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/24 11:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			11/19/24 11:50	1
Trichloroethene	ND		1.0		ug/L			11/19/24 11:50	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/24 11:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			11/19/24 11:50	1
Vinyl acetate	ND		5.0		ug/L			11/19/24 11:50	1
Vinyl chloride	ND		1.0		ug/L			11/19/24 11:50	1
Xylenes (total)	ND		2.0		ug/L			11/19/24 11:50	1
1,2-Dibromoethane	ND		1.0		ug/L			11/19/24 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/19/24 11:50*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/19/24 11:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*11/19/24 11:50*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*11/19/24 11:50*	*1*

Lab Sample ID: LCS 480-732871/6
Matrix: Water
Analysis Batch: 732871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	125	107		ug/L		86	56 - 142
Acrolein	125	115		ug/L		92	52 - 143
Acrylonitrile	250	233		ug/L		93	63 - 125
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromochloromethane	25.0	25.3		ug/L		101	72 - 130
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	25.1		ug/L		100	61 - 132
Bromomethane	25.0	23.6		ug/L		94	55 - 144
2-Butanone (MEK)	125	113		ug/L		91	57 - 140
Carbon disulfide	25.0	22.8		ug/L		91	59 - 134
Carbon tetrachloride	25.0	22.1		ug/L		88	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Dibromochloromethane	25.0	22.6		ug/L		90	75 - 125
Chloroethane	25.0	23.0		ug/L		92	69 - 136
Chloroform	25.0	22.4		ug/L		89	73 - 127
Chloromethane	25.0	18.3		ug/L		73	68 - 124
Allyl chloride	25.0	23.7		ug/L		95	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	56 - 134
Dibromomethane	25.0	24.4		ug/L		98	76 - 127
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	80 - 124
1,3-Dichlorobenzene	25.0	21.6		ug/L		87	77 - 120

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

Lab Sample ID: LCS 480-732871/6
Matrix: Water
Analysis Batch: 732871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	25.0	21.5		ug/L		86	80 - 120
trans-1,4-Dichloro-2-butene	25.0	23.2		ug/L		93	41 - 131
Dichlorodifluoromethane	25.0	19.2		ug/L		77	59 - 135
1,1-Dichloroethane	25.0	23.8		ug/L		95	77 - 120
1,2-Dichloroethane	25.0	25.5		ug/L		102	75 - 120
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
1,1-Dichloroethene	25.0	23.1		ug/L		92	66 - 127
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120
1,3-Dichloropropane	25.0	22.7		ug/L		91	75 - 120
2,2-Dichloropropane	25.0	24.7		ug/L		99	63 - 136
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
trans-1,3-Dichloropropene	25.0	24.5		ug/L		98	80 - 120
1,1-Dichloropropene	25.0	22.8		ug/L		91	72 - 122
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Ethyl methacrylate	25.0	23.3		ug/L		93	74 - 120
2-Hexanone	125	112		ug/L		89	65 - 127
Iodomethane	25.0	23.5		ug/L		94	78 - 123
Isobutyl alcohol	625	518		ug/L		83	51 - 150
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124
Methyl isobutyl ketone (MIBK)	125	119		ug/L		95	71 - 125
Naphthalene	25.0	24.0		ug/L		96	66 - 125
Styrene	25.0	23.7		ug/L		95	80 - 120
1,1,1,2-Tetrachloroethane	25.0	22.0		ug/L		88	80 - 120
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
Tetrachloroethene	25.0	22.1		ug/L		88	74 - 122
Toluene	25.0	22.9		ug/L		92	80 - 122
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	79 - 122
1,1,1-Trichloroethane	25.0	23.1		ug/L		92	73 - 126
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	76 - 122
Trichloroethene	25.0	23.1		ug/L		93	74 - 123
Trichlorofluoromethane	25.0	26.7		ug/L		107	62 - 150
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	68 - 122
Vinyl acetate	50.0	51.0		ug/L		102	50 - 144
Vinyl chloride	25.0	22.6		ug/L		91	65 - 133
Xylenes (total)	50.0	47.4		ug/L		95	76 - 122
1,2-Dibromoethane	25.0	22.9		ug/L		92	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

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

Lab Sample ID: 480-225549-A-4 MS
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	7000		12500	18100		ug/L		89	56 - 142
Benzene	ND		2500	2370		ug/L		95	71 - 124
Bromodichloromethane	ND		2500	2470		ug/L		99	80 - 122
Bromoform	ND		2500	2420		ug/L		97	61 - 132
Bromomethane	ND		2500	2020		ug/L		81	55 - 144
2-Butanone (MEK)	5200		12500	17400		ug/L		97	57 - 140
Carbon disulfide	ND		2500	2160		ug/L		86	59 - 134
Carbon tetrachloride	ND		2500	2170		ug/L		87	72 - 134
Chlorobenzene	ND		2500	2420		ug/L		97	80 - 120
Dibromochloromethane	ND		2500	2360		ug/L		95	75 - 125
Chloroethane	ND		2500	2040		ug/L		82	69 - 136
Chloroform	ND		2500	2220		ug/L		89	73 - 127
Chloromethane	ND		2500	1910		ug/L		76	68 - 124
1,1-Dichloroethane	ND		2500	2440		ug/L		96	77 - 120
1,2-Dichloroethane	ND		2500	2590		ug/L		101	75 - 120
cis-1,2-Dichloroethene	260		2500	2650		ug/L		96	74 - 124
trans-1,2-Dichloroethene	ND		2500	2250		ug/L		90	73 - 127
1,1-Dichloroethene	ND		2500	2360		ug/L		94	66 - 127
1,2-Dichloropropane	ND		2500	2320		ug/L		93	76 - 120
cis-1,3-Dichloropropene	ND		2500	2480		ug/L		99	74 - 124
trans-1,3-Dichloropropene	ND		2500	2380		ug/L		95	80 - 120
Ethylbenzene	ND		2500	2430		ug/L		97	77 - 123
2-Hexanone	ND		12500	12100		ug/L		97	65 - 127
Methylene Chloride	4800		2500	7010		ug/L		88	75 - 124
Methyl isobutyl ketone (MIBK)	ND		12500	12200		ug/L		94	71 - 125
Styrene	ND		2500	2450		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	ND		2500	2160		ug/L		86	76 - 120
Tetrachloroethene	630		2500	2870		ug/L		90	74 - 122
Toluene	220		2500	2650		ug/L		97	80 - 122
1,1,1-Trichloroethane	ND		2500	2260		ug/L		90	73 - 126
1,1,2-Trichloroethane	ND		2500	2410		ug/L		96	76 - 122
Trichloroethene	ND		2500	2470		ug/L		97	74 - 123
Vinyl acetate	ND	F1	5000	ND	F1	ug/L		6	50 - 144
Vinyl chloride	150		2500	2540		ug/L		96	65 - 133
Xylenes (total)	ND		5000	5060		ug/L		101	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*

Lab Sample ID: 480-225549-A-4 MSD
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	7000		12500	17800		ug/L		87	56 - 142	2	15
Benzene	ND		2500	2390		ug/L		95	71 - 124	1	13

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

Lab Sample ID: 480-225549-A-4 MSD
Matrix: Water
Analysis Batch: 732871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromodichloromethane	ND		2500	2450		ug/L		98	80 - 122	1	15
Bromoform	ND		2500	2300		ug/L		92	61 - 132	5	15
Bromomethane	ND		2500	2070		ug/L		83	55 - 144	2	15
2-Butanone (MEK)	5200		12500	16900		ug/L		94	57 - 140	3	20
Carbon disulfide	ND		2500	2200		ug/L		88	59 - 134	2	15
Carbon tetrachloride	ND		2500	2140		ug/L		86	72 - 134	1	15
Chlorobenzene	ND		2500	2330		ug/L		93	80 - 120	4	25
Dibromochloromethane	ND		2500	2280		ug/L		91	75 - 125	3	15
Chloroethane	ND		2500	1990		ug/L		79	69 - 136	3	15
Chloroform	ND		2500	2260		ug/L		90	73 - 127	2	20
Chloromethane	ND		2500	1750		ug/L		70	68 - 124	9	15
1,1-Dichloroethane	ND		2500	2420		ug/L		95	77 - 120	1	20
1,2-Dichloroethane	ND		2500	2560		ug/L		100	75 - 120	1	20
cis-1,2-Dichloroethene	260		2500	2590		ug/L		93	74 - 124	3	15
trans-1,2-Dichloroethene	ND		2500	2370		ug/L		95	73 - 127	5	20
1,1-Dichloroethene	ND		2500	2350		ug/L		94	66 - 127	0	16
1,2-Dichloropropane	ND		2500	2230		ug/L		89	76 - 120	4	20
cis-1,3-Dichloropropene	ND		2500	2370		ug/L		95	74 - 124	5	15
trans-1,3-Dichloropropene	ND		2500	2230		ug/L		89	80 - 120	6	15
Ethylbenzene	ND		2500	2330		ug/L		93	77 - 123	5	15
2-Hexanone	ND		12500	11200		ug/L		90	65 - 127	8	15
Methylene Chloride	4800		2500	6940		ug/L		85	75 - 124	1	15
Methyl isobutyl ketone (MIBK)	ND		12500	11600		ug/L		89	71 - 125	6	35
Styrene	ND		2500	2310		ug/L		93	80 - 120	6	20
1,1,2,2-Tetrachloroethane	ND		2500	2300		ug/L		92	76 - 120	6	15
Tetrachloroethene	630		2500	2670		ug/L		82	74 - 122	7	20
Toluene	220		2500	2550		ug/L		93	80 - 122	4	15
1,1,1-Trichloroethane	ND		2500	2230		ug/L		89	73 - 126	1	15
1,1,2-Trichloroethane	ND		2500	2470		ug/L		99	76 - 122	2	15
Trichloroethene	ND		2500	2430		ug/L		95	74 - 123	2	16
Vinyl acetate	ND	F1	5000	ND	F1	ug/L		5	50 - 144	22	23
Vinyl chloride	150		2500	2490		ug/L		94	65 - 133	2	15
Xylenes (total)	ND		5000	4700		ug/L		94	76 - 122	7	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*

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

Lab Sample ID: MB 280-675824/1-A
Matrix: Water
Analysis Batch: 675996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675824

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
1,3,5-Trinitrobenzene	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
1,3-Dinitrobenzene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-675824/1-A
Matrix: Water
Analysis Batch: 675996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675824

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
1-Naphthylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,4,5-Trichlorophenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,4,6-Trichlorophenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,4-Dichlorophenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,4-Dimethylphenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,4-Dinitrophenol	ND		30		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,4-Dinitrotoluene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,6-Dichlorophenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2,6-Dinitrotoluene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Acetylaminofluorene	ND		100		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Chloronaphthalene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Chlorophenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Methylnaphthalene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Methylphenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Naphthylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Nitroaniline	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
2-Nitrophenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
3,3'-Dichlorobenzidine	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
3-Methylcholanthrene	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
3-Nitroaniline	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Aminobiphenyl	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Bromophenyl phenyl ether	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Chloro-3-methylphenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Chloroaniline	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Dimethylaminoazobenzene	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Nitroaniline	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
4-Nitrophenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
5-Nitro-o-toluidine	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
Acenaphthene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Acenaphthylene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Acetophenone	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Anthracene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Benz(a)anthracene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Benzo(a)pyrene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Benzo(b)fluoranthene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Benzo(ghi)perylene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Benzo(k)fluoranthene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Benzyl alcohol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
bis(2-Chloroethyl) ether	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Butyl benzyl phthalate	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-675824/1-A
Matrix: Water
Analysis Batch: 675996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675824

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzilate	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Chrysene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Diallate	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
Dibenz(a,h)anthracene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Dibenzofuran	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Diethyl phthalate	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Dimethyl phthalate	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Di-n-butyl phthalate	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Di-n-octyl phthalate	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Diphenylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Ethyl methanesulfonate	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Famphur	ND		100		ug/L		11/20/24 11:30	11/21/24 10:19	1
Fluoranthene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Fluorene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Hexachlorobenzene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Hexachlorobutadiene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Hexachlorocyclopentadiene	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
Hexachloroethane	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Hexachloropropene	ND		100		ug/L		11/20/24 11:30	11/21/24 10:19	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Isodrin	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Isophorone	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Isosafrole	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
Methapyrilene	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
Methyl methanesulfonate	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Methyl parathion	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
Nitrobenzene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosodiethylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosodimethylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosodiphenylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosomethylethylamine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosopiperidine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
N-Nitrosopyrrolidine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
o-Toluidine	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Parathion	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
Pentachlorobenzene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Pentachloronitrobenzene	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
Pentachlorophenol	ND		50		ug/L		11/20/24 11:30	11/21/24 10:19	1
Phenacetin	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
Phenanthrene	ND		4.0		ug/L		11/20/24 11:30	11/21/24 10:19	1
Phenol	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
p-Phenylene diamine	ND		100		ug/L		11/20/24 11:30	11/21/24 10:19	1
Pronamide	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1
Pyrene	ND		10		ug/L		11/20/24 11:30	11/21/24 10:19	1
Safrole	ND		20		ug/L		11/20/24 11:30	11/21/24 10:19	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-675824/1-A
Matrix: Water
Analysis Batch: 675996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675824

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		22 - 140	11/20/24 11:30	11/21/24 10:19	1
2-Fluorobiphenyl	74		28 - 120	11/20/24 11:30	11/21/24 10:19	1
2-Fluorophenol	36		13 - 120	11/20/24 11:30	11/21/24 10:19	1
Nitrobenzene-d5	83		34 - 120	11/20/24 11:30	11/21/24 10:19	1
Phenol-d5	22		10 - 120	11/20/24 11:30	11/21/24 10:19	1
Terphenyl-d14	98		55 - 142	11/20/24 11:30	11/21/24 10:19	1

Lab Sample ID: LCS 280-675824/2-A
Matrix: Water
Analysis Batch: 675996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	80.0	62.2		ug/L		78	15 - 120
1,4-Dichlorobenzene	80.0	58.1		ug/L		73	10 - 120
2,4,6-Trichlorophenol	80.0	87.7		ug/L		110	44 - 120
2,4-Dinitrotoluene	80.0	91.8		ug/L		115	52 - 124
2-Chlorophenol	80.0	63.3		ug/L		79	35 - 120
2-Methylnaphthalene	80.0	67.3		ug/L		84	33 - 120
2-Methylphenol	80.0	55.7		ug/L		70	49 - 120
4-Chloro-3-methylphenol	80.0	78.8		ug/L		98	51 - 120
4-Nitrophenol	160	71.0		ug/L		44	31 - 120
Acenaphthene	80.0	72.2		ug/L		90	48 - 120
Anthracene	80.0	81.8		ug/L		102	56 - 121
bis(2-Chloroethyl) ether	80.0	69.3		ug/L		87	30 - 120
Bis(2-ethylhexyl) phthalate	80.0	90.7		ug/L		113	40 - 134
Carbazole	80.0	85.8		ug/L		107	53 - 123
Famphur	80.0	ND		ug/L		67	49 - 150
Isodrin	80.0	90.3		ug/L		113	57 - 125
Methyl parathion	80.0	104		ug/L		130	54 - 151
N-Nitrosodi-n-propylamine	80.0	69.5		ug/L		87	44 - 120
Parathion	80.0	94.3		ug/L		118	60 - 128
Pentachlorophenol	160	153		ug/L		96	42 - 126
Phenol	80.0	22.7		ug/L		28	28 - 120
Pyrene	80.0	87.6		ug/L		110	54 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		22 - 140
2-Fluorobiphenyl	81		28 - 120
2-Fluorophenol	40		13 - 120
Nitrobenzene-d5	88		34 - 120
Phenol-d5	25		10 - 120
Terphenyl-d14	104		55 - 142

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-675824/3-A
Matrix: Water
Analysis Batch: 675996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675824

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			80.0	63.8		ug/L		80	15 - 120	3	48
1,4-Dichlorobenzene			80.0	57.7		ug/L		72	10 - 120	1	47
2,4,6-Trichlorophenol			80.0	85.2		ug/L		106	44 - 120	3	44
2,4-Dinitrotoluene			80.0	91.0		ug/L		114	52 - 124	1	35
2-Chlorophenol			80.0	64.3		ug/L		80	35 - 120	2	47
2-Methylnaphthalene			80.0	67.7		ug/L		85	33 - 120	1	48
2-Methylphenol			80.0	54.6		ug/L		68	49 - 120	2	46
4-Chloro-3-methylphenol			80.0	79.2		ug/L		99	51 - 120	1	42
4-Nitrophenol			160	72.2		ug/L		45	31 - 120	2	29
Acenaphthene			80.0	71.2		ug/L		89	48 - 120	1	41
Anthracene			80.0	80.6		ug/L		101	56 - 121	1	33
bis(2-Chloroethyl) ether			80.0	68.8		ug/L		86	30 - 120	1	48
Bis(2-ethylhexyl) phthalate			80.0	89.6		ug/L		112	40 - 134	1	38
Carbazole			80.0	85.3		ug/L		107	53 - 123	1	33
Famphur			80.0	ND		ug/L		94	49 - 150	34	45
Isodrin			80.0	89.5		ug/L		112	57 - 125	1	34
Methyl parathion			80.0	103		ug/L		128	54 - 151	1	34
N-Nitrosodi-n-propylamine			80.0	68.3		ug/L		85	44 - 120	2	47
Parathion			80.0	94.7		ug/L		118	60 - 128	0	38
Pentachlorophenol			160	155		ug/L		97	42 - 126	1	36
Phenol			80.0	23.0		ug/L		29	28 - 120	1	40
Pyrene			80.0	85.2		ug/L		107	54 - 126	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*22 - 140*
2-Fluorobiphenyl	*81*		*28 - 120*
2-Fluorophenol	*42*		*13 - 120*
Nitrobenzene-d5	*89*		*34 - 120*
Phenol-d5	*25*		*10 - 120*
Terphenyl-d14	*102*		*55 - 142*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-675319/1-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675319

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
4,4'-DDE	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
4,4'-DDT	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Aldrin	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
alpha-BHC	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
beta-BHC	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
delta-BHC	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
gamma-BHC (Lindane)	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
cis-Chlordane	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Technical Chlordane	ND		0.50		ug/L		11/15/24 15:55	11/18/24 16:50	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 280-675319/1-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675319

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endrin	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endosulfan I	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endosulfan II	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endosulfan sulfate	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Endrin aldehyde	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Heptachlor	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Heptachlor epoxide	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Kepone	ND		1.0		ug/L		11/15/24 15:55	11/18/24 16:50	1
Methoxychlor	ND		0.10		ug/L		11/15/24 15:55	11/18/24 16:50	1
trans-Chlordane	ND		0.050		ug/L		11/15/24 15:55	11/18/24 16:50	1
Toxaphene	ND		2.0		ug/L		11/15/24 15:55	11/18/24 16:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*12 - 129*	*11/15/24 15:55*	*11/18/24 16:50*	*1*
DCB Decachlorobiphenyl	*101*		*10 - 157*	*11/15/24 15:55*	*11/18/24 16:50*	*1*

Lab Sample ID: LCS 280-675319/2-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.500	0.586		ug/L		117	63 - 140
4,4'-DDE	0.500	0.526		ug/L		105	58 - 132
4,4'-DDT	0.500	0.613		ug/L		123	64 - 159
Aldrin	0.500	0.503		ug/L		101	10 - 123
alpha-BHC	0.500	0.495		ug/L		99	62 - 123
beta-BHC	0.500	0.476		ug/L		95	58 - 120
delta-BHC	0.500	0.547		ug/L		109	63 - 128
gamma-BHC (Lindane)	0.500	0.507		ug/L		101	63 - 126
cis-Chlordane	0.500	0.511		ug/L		102	54 - 138
Dieldrin	0.500	0.488		ug/L		98	62 - 135
Endrin	0.500	0.516		ug/L		103	66 - 134
Endosulfan I	0.500	0.479		ug/L		96	59 - 136
Endosulfan II	0.500	0.494		ug/L		99	56 - 131
Endosulfan sulfate	0.500	0.542		ug/L		108	63 - 138
Endrin aldehyde	0.500	0.493		ug/L		99	58 - 125
Heptachlor	0.500	0.488		ug/L		98	26 - 136
Heptachlor epoxide	0.500	0.496		ug/L		99	62 - 133
Methoxychlor	0.500	0.608		ug/L		122	55 - 166
trans-Chlordane	0.500	0.505		ug/L		101	56 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*12 - 129*
DCB Decachlorobiphenyl	*93*		*10 - 157*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-675319/6-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			20.0	18.4		ug/L		92	52 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*12 - 129*
DCB Decachlorobiphenyl	*101*		*10 - 157*

Lab Sample ID: LCS 280-675319/8-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Kepone			3.00	1.55		ug/L		52	10 - 328		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*12 - 129*
DCB Decachlorobiphenyl	*85*		*10 - 157*

Lab Sample ID: LCSD 280-675319/3-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.500	0.592		ug/L		118	63 - 140	1	22
4,4'-DDE			0.500	0.535		ug/L		107	58 - 132	2	23
4,4'-DDT			0.500	0.619		ug/L		124	64 - 159	1	24
Aldrin			0.500	0.510		ug/L		102	10 - 123	1	43
alpha-BHC			0.500	0.507		ug/L		101	62 - 123	2	21
beta-BHC			0.500	0.488		ug/L		98	58 - 120	2	21
delta-BHC			0.500	0.558		ug/L		112	63 - 128	2	22
gamma-BHC (Lindane)			0.500	0.553		ug/L		111	63 - 126	9	21
cis-Chlordane			0.500	0.520		ug/L		104	54 - 138	2	31
Dieldrin			0.500	0.499		ug/L		100	62 - 135	2	21
Endrin			0.500	0.525		ug/L		105	66 - 134	2	21
Endosulfan I			0.500	0.489		ug/L		98	59 - 136	2	22
Endosulfan II			0.500	0.502		ug/L		100	56 - 131	2	20
Endosulfan sulfate			0.500	0.591		ug/L		118	63 - 138	9	21
Endrin aldehyde			0.500	0.488		ug/L		98	58 - 125	1	23
Heptachlor			0.500	0.508		ug/L		102	26 - 136	4	38
Heptachlor epoxide			0.500	0.534		ug/L		107	62 - 133	7	22
Methoxychlor			0.500	0.616		ug/L		123	55 - 166	1	29
trans-Chlordane			0.500	0.512		ug/L		102	56 - 135	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*12 - 129*
DCB Decachlorobiphenyl	*90*		*10 - 157*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-675319/7-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toxaphene			20.0	19.3		ug/L		97	52 - 142	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*64*		*12 - 129*
DCB Decachlorobiphenyl	*103*		*10 - 157*

Lab Sample ID: LCSD 280-675319/9-A
Matrix: Water
Analysis Batch: 675525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675319

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Kepone			3.00	2.31		ug/L		77	10 - 328	39	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*12 - 129*
DCB Decachlorobiphenyl	*102*		*10 - 157*

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 280-675621/1-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675621

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		11/19/24 11:36	11/20/24 12:15	1
Disulfoton	ND		1.0		ug/L		11/19/24 11:36	11/20/24 12:15	1
Phorate	ND		1.2		ug/L		11/19/24 11:36	11/20/24 12:15	1
Thionazin	ND		1.0		ug/L		11/19/24 11:36	11/20/24 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*83*		*27 - 120*	*11/19/24 11:36*	*11/20/24 12:15*	*1*
Triphenylphosphate	*96*		*42 - 120*	*11/19/24 11:36*	*11/20/24 12:15*	*1*

Lab Sample ID: LCS 280-675621/2-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675621

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethoate			4.00	2.82		ug/L		71	20 - 120
Disulfoton			4.00	3.72		ug/L		93	44 - 120
Phorate			4.00	3.89		ug/L		97	33 - 124
Thionazin			4.00	3.71		ug/L		93	39 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Chlormefos	*83*		*27 - 120*
Triphenylphosphate	*111*		*42 - 120*

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-675621/3-A
Matrix: Water
Analysis Batch: 675806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675621

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate			4.00	3.25		ug/L		81	20 - 120	14	30
Disulfoton			4.00	4.02		ug/L		101	44 - 120	8	30
Phorate			4.00	4.12		ug/L		103	33 - 124	6	30
Thionazin			4.00	3.90		ug/L		97	39 - 128	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Chlormefos	*85*		*27 - 120*
Triphenylphosphate	*114*		*42 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-576393/1-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0		ug/L		11/18/24 15:06	11/19/24 10:33	1
2,4-D	ND		4.0		ug/L		11/18/24 15:06	11/19/24 10:33	1
Dinoseb	ND		1.0		ug/L		11/18/24 15:06	11/19/24 10:33	1
2,4,5-TP (Silvex)	ND		1.0		ug/L		11/18/24 15:06	11/19/24 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*34 - 142*	*11/18/24 15:06*	*11/19/24 10:33*	*1*
2,4-Dichlorophenylacetic acid	*57*		*34 - 142*	*11/18/24 15:06*	*11/19/24 10:33*	*1*

Lab Sample ID: LCS 410-576393/2-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576393

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			0.250	0.226	J	ug/L		90	57 - 171		
2,4,5-T			0.250	0.235	J	ug/L		94	57 - 171		
2,4-D			2.50	2.03	J	ug/L		81	53 - 159		
Dinoseb			1.25	0.789	J	ug/L		63	10 - 169		
Dinoseb			1.25	0.865	J	ug/L		69	10 - 169		
2,4,5-TP (Silvex)			0.250	0.225	J	ug/L		90	62 - 170		
2,4,5-TP (Silvex)			0.250	0.236	J	ug/L		94	62 - 170		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*87*		*34 - 142*
2,4-Dichlorophenylacetic acid	*77*		*34 - 142*

Lab Sample ID: LCSD 410-576393/3-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576393

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			0.250	0.247	J	ug/L		99	57 - 171	9	30

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 410-576393/3-A
Matrix: Water
Analysis Batch: 576549

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576393

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			2.50	2.25	J	ug/L		90	53 - 159	10	30
Dinoseb			1.25	ND	*- *1	ug/L		7	10 - 169	165	30
2,4,5-TP (Silvex)			0.250	0.249	J	ug/L		99	62 - 170	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*95*		*34 - 142*
2,4-Dichlorophenylacetic acid	*88*		*34 - 142*

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-199567-J-1-B MS
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	ND		1.00	0.958		mg/L		96	84 - 120

Lab Sample ID: 280-199567-J-1-C MSD
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	ND		1.00	0.993		mg/L		99	84 - 120	4	20

Lab Sample ID: MB 280-675173/1-A
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		11/15/24 14:29	11/17/24 22:39	1

Lab Sample ID: LCS 280-675173/2-A
Matrix: Water
Analysis Batch: 675457

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675173

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel			1.00	0.980		mg/L		98	89 - 111

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 280-675967/18
Matrix: Water
Analysis Batch: 675967

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			11/20/24 14:04	1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 280-675967/19
Matrix: Water
Analysis Batch: 675967

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.0999	0.107		mg/L		107	90 - 110		

Lab Sample ID: 280-199768-E-2 MS
Matrix: Water
Analysis Batch: 675967

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	ND	F1	0.0999	0.114	F1	mg/L		114	90 - 110		

Lab Sample ID: 280-199768-E-2 MSD
Matrix: Water
Analysis Batch: 675967

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	0.0999	0.119	F1	mg/L		119	90 - 110	4	20

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-675933/2-A
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675933

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		4.0		mg/L		11/20/24 14:49	11/20/24 16:18	1

Lab Sample ID: LCS 280-675933/1-A
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675933

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Sulfide			17.0	9.60		mg/L		56	44 - 110		

Lab Sample ID: 280-199760-C-9-B MS
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 675933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Sulfide	ND		17.0	10.4		mg/L		61	44 - 110		

Lab Sample ID: 280-199760-C-9-C MSD
Matrix: Water
Analysis Batch: 675958

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 675933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Sulfide	ND		17.0	9.60		mg/L		56	44 - 110	8	20

GC/MS VOA

Analysis Batch: 732871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-1	TRIP BLANK	Total/NA	Water	8260C	
280-199598-2	MW-34C	Total/NA	Water	8260C	
280-199598-3	MW-42	Total/NA	Water	8260C	
MB 480-732871/8	Method Blank	Total/NA	Water	8260C	
LCS 480-732871/6	Lab Control Sample	Total/NA	Water	8260C	
480-225549-A-4 MS	Matrix Spike	Total/NA	Water	8260C	
480-225549-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 675824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	3510C	
280-199598-3	MW-42	Total/NA	Water	3510C	
MB 280-675824/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675824/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675824/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	8270C	675824
280-199598-3	MW-42	Total/NA	Water	8270C	675824
MB 280-675824/1-A	Method Blank	Total/NA	Water	8270C	675824
LCS 280-675824/2-A	Lab Control Sample	Total/NA	Water	8270C	675824
LCSD 280-675824/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	675824

GC Semi VOA

Prep Batch: 576393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	8151A	
280-199598-3	MW-42	Total/NA	Water	8151A	
MB 410-576393/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-576393/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-576393/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 576549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	8151A	576393
280-199598-3	MW-42	Total/NA	Water	8151A	576393
MB 410-576393/1-A	Method Blank	Total/NA	Water	8151A	576393
LCS 410-576393/2-A	Lab Control Sample	Total/NA	Water	8151A	576393
LCSD 410-576393/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	576393

Prep Batch: 675319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	3510C	
280-199598-3	MW-42	Total/NA	Water	3510C	
MB 280-675319/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675319/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-675319/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-675319/8-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 675319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-675319/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675319/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-675319/9-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	8081A	675319
280-199598-3	MW-42	Total/NA	Water	8081A	675319
MB 280-675319/1-A	Method Blank	Total/NA	Water	8081A	675319
LCS 280-675319/2-A	Lab Control Sample	Total/NA	Water	8081A	675319
LCS 280-675319/6-A	Lab Control Sample	Total/NA	Water	8081A	675319
LCS 280-675319/8-A	Lab Control Sample	Total/NA	Water	8081A	675319
LCSD 280-675319/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	675319
LCSD 280-675319/7-A	Lab Control Sample Dup	Total/NA	Water	8081A	675319
LCSD 280-675319/9-A	Lab Control Sample Dup	Total/NA	Water	8081A	675319

Prep Batch: 675621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	3510C	
280-199598-3	MW-42	Total/NA	Water	3510C	
MB 280-675621/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-675621/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-675621/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 675806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	8141A	675621
280-199598-3	MW-42	Total/NA	Water	8141A	675621
MB 280-675621/1-A	Method Blank	Total/NA	Water	8141A	675621
LCS 280-675621/2-A	Lab Control Sample	Total/NA	Water	8141A	675621
LCSD 280-675621/3-A	Lab Control Sample Dup	Total/NA	Water	8141A	675621

Metals

Prep Batch: 675173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total Recoverable	Water	3005A	
280-199598-3	MW-42	Total Recoverable	Water	3005A	
MB 280-675173/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-675173/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199567-J-1-B MS	Matrix Spike	Total/NA	Water	3005A	
280-199567-J-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 675457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total Recoverable	Water	6010D	675173
280-199598-3	MW-42	Total Recoverable	Water	6010D	675173
MB 280-675173/1-A	Method Blank	Total Recoverable	Water	6010D	675173
LCS 280-675173/2-A	Lab Control Sample	Total Recoverable	Water	6010D	675173
280-199567-J-1-B MS	Matrix Spike	Total/NA	Water	6010D	675173
280-199567-J-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010D	675173

QC Association Summary

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

General Chemistry

Prep Batch: 675933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	9030B	
280-199598-3	MW-42	Total/NA	Water	9030B	
MB 280-675933/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-675933/1-A	Lab Control Sample	Total/NA	Water	9030B	
280-199760-C-9-B MS	Matrix Spike	Total/NA	Water	9030B	
280-199760-C-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 675958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	9034	675933
280-199598-3	MW-42	Total/NA	Water	9034	675933
MB 280-675933/2-A	Method Blank	Total/NA	Water	9034	675933
LCS 280-675933/1-A	Lab Control Sample	Total/NA	Water	9034	675933
280-199760-C-9-B MS	Matrix Spike	Total/NA	Water	9034	675933
280-199760-C-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	675933

Analysis Batch: 675967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199598-2	MW-34C	Total/NA	Water	9012B	
280-199598-3	MW-42	Total/NA	Water	9012B	
MB 280-675967/18	Method Blank	Total/NA	Water	9012B	
LCS 280-675967/19	Lab Control Sample	Total/NA	Water	9012B	
280-199768-E-2 MS	Matrix Spike	Total/NA	Water	9012B	
280-199768-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-199598-1
Date Collected: 11/13/24 00:00
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	732871	11/19/24 14:45	AD	EET BUF

Client Sample ID: MW-34C
Lab Sample ID: 280-199598-2
Date Collected: 11/13/24 11:35
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	732871	11/19/24 15:08	AD	EET BUF
Total/NA	Prep	3510C			932.3 mL	1 mL	675824	11/20/24 11:30	DN	EET DEN
Total/NA	Analysis	8270C		1	500 uL	500 uL	675996	11/21/24 11:46	DCM	EET DEN
Total/NA	Prep	3510C			963.3 mL	10 mL	675319	11/15/24 15:55	JES	EET DEN
Total/NA	Analysis	8081A		1	1 mL	1 mL	675525	11/18/24 19:48	SMQ	EET DEN
Total/NA	Prep	3510C			1035.4 mL	2 mL	675621	11/19/24 11:36	DN	EET DEN
Total/NA	Analysis	8141A		1	0.25 mL	0.25 mL	675806	11/20/24 16:06	SP	EET DEN
Total/NA	Prep	8151A			1050.5 mL	10 mL	576393	11/18/24 15:06	QJZ6	ELLE
Total/NA	Analysis	8151A		1			576549	11/19/24 14:19	UAMZ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	675173	11/15/24 14:29	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/17/24 23:28	ADL	EET DEN
Total/NA	Analysis	9012B		1	10 mL	10 mL	675967	11/20/24 15:10	LBR	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	675933	11/20/24 14:49	CAI	EET DEN
Total/NA	Analysis	9034		1			675958	11/20/24 16:18	CAI	EET DEN

Client Sample ID: MW-42
Lab Sample ID: 280-199598-3
Date Collected: 11/13/24 15:10
Matrix: Water
Date Received: 11/14/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	732871	11/19/24 15:30	AD	EET BUF
Total/NA	Prep	3510C			200 mL	1 mL	675824	11/20/24 11:30	DN	EET DEN
Total/NA	Analysis	8270C		1	500 uL	500 uL	675996	11/21/24 12:08	DCM	EET DEN
Total/NA	Prep	3510C			200 mL	10 mL	675319	11/15/24 15:55	JES	EET DEN
Total/NA	Analysis	8081A		1	1 mL	1 mL	675525	11/18/24 20:06	SMQ	EET DEN
Total/NA	Prep	3510C			500 mL	2 mL	675621	11/19/24 11:36	DN	EET DEN
Total/NA	Analysis	8141A		1	0.25 mL	0.25 mL	675806	11/20/24 16:44	SP	EET DEN
Total/NA	Prep	8151A			976.5 mL	10 mL	576393	11/18/24 15:06	QJZ6	ELLE
Total/NA	Analysis	8151A		10			576549	11/19/24 14:47	UAMZ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	675173	11/15/24 14:29	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			675457	11/17/24 23:31	ADL	EET DEN
Total/NA	Analysis	9012B		1	10 mL	10 mL	675967	11/20/24 15:08	LBR	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	675933	11/20/24 14:49	CAI	EET DEN
Total/NA	Analysis	9034		1			675958	11/20/24 16:18	CAI	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-199598-1
Project/Site: WA02|Olympic View Sanitary LF - Groundwater

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

7385 6156 0475

Client Information	Sampler: TE	Lab PM: Collins, Janice S	Carrier Tracking No(s): 7385 6156 0453	COC No: 280-145144-13694.1
Client Contact: Mr. Jeff Altman	Phone: 425-507-6703	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: WA	Page: Page 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: Olympic View Transfer Station 9300 Southwest Barney White Ro	Due Date Requested:			
City: Bremerton	TAT Requested (days):			
State, Zip: WA, 98312	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: jaltman2@wm.com	WO #:			
Project Name: WA02|Olympic View Sanitary LF/WA02 Event Desc: App III Grou	Project #: 28002692			
Site: Washington	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
D - HNO3
N - None
CB - ZnAcetate/NaOH
B - NaOH
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)	8260B - (MOD) Appendix II (short list spike)	6010B - Nickel	8081A - (MOD) Appendix II	8141A - (MOD) Local Method	8151A - Appendix II	8270C - (MOD) Appendix II short list spike	9034 - Total Sulfide	9012A - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N	N	N	N	CB	B		
TRIP BLANK				Water												
MW-15R				Water												
MW-34C	11/13/24	G	1135	Water	N	N	X	X	X	X	X	X	X	X		
MW-42	↓	G	1510	Water	N	N	X	X	X	X	X	X	X	X		
				Water												

280-199598 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/13/24	SCS		11/14/24 09:05	EET DEN
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: 2.8/5.5/1.9/3.3/5.0 IR PABU CF +0.2

Ver: 10/10/2024

11/25/2024


280-199598 Waybill
FedEx Express
Part # 156297-436 RRDB
THU - 14 NOV 10:30AM
PRIORITY OVERNIGHT
80002
DEN
CO - US
FedEx
TRK# 0221 7385 6156 0453
XA LAAA
SHIPPING MANAGER
TEST AMERICA
4955 YARROW ST
RETURNS
ARVADA CO 80002
(303) 736 - 0100
REF: S280 - 145144
RMA:
UNITED STATES US
SAMPLE RECEIVING
ENVIRON TESTING - DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
REF: S280-145144
ORIGIN ID:PWTA
SHIP DATE: 13NOV24
ACTWGT: 20.70 LB
CAD: /SSFE2560
DIMS: 24x15x14 IN
TRK# 8185 0748 9041
0687
XA LAAA
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
80002
DEN
CO - US
(US)
Part # 156297-436 RRDB EBP 07/25

XA LAAA
TRK# 8185 0749 6411
0682
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
80002
DEN
CO - US
FedEx Express
(303) 738 - 0100
ARVADA CO 80002
(US)
SHIP DATE: 13NOV24
ACTWGT: 54.00 LB
CAD: /SSFE2560
DIMS: 24x16x12 IN
PWTA
XA LAAA
TRK# 7385 6156 0464
0221
THU - 14 NOV 10:30A
PRIORITY OVERNIGHT
80002
DEN
CO - US
FedEx Express
SHIPPING MANAGER
TEST AMERICA
4955 YARROW ST
RETURNS
ARVADA CO 80002
(303) 736-0100
REF: S280 - 145144

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-724449.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 280-199598-1
Address: 2425 New Holland Pike,	Due Date Requested: 12/9/2024			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Groundwater	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP 8151A, Herbicides (4) (Lancaster)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-34C (280-199598-2)	11/13/24	11:35 Pacific	G	Water			X	2	
MW-42 (280-199598-3)	11/13/24	15:10 Pacific	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Blake Brunetto	11/15/24 15:00	ect dsn			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/16/24 09:40	Company ELPT

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-724637.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): State - Washington		Job #: 280-199598-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/9/2024			Preservation Codes: -
City: Amherst	TAT Requested (days): N/A			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Groundwater	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C (MOD) Appendix II (short list spike)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TRIP BLANK (280-199598-1)	11/13/24	Pacific	G	Water			X	3	
MW-34C (280-199598-2)	11/13/24	11:35 Pacific	G	Water			X	3	
MW-42 (280-199598-3)	11/13/24	15:10 Pacific	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification: Unconfirmed	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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Blaze Gundlach	11/18/24 1500	eet dn	VFS	11-19-24 1100	
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: 3.7 IR#SC Ice

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199598-1

Login Number: 199598
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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.	False	No: Containers received broken and no volume could be salvaged for analysis
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199598-1

Login Number: 199598
List Number: 3
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo
List Creation: 11/19/24 11:34 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 IR#SC ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199598-1

Login Number: 199598
List Number: 2
Creator: Kanagy, Nicholas

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/16/24 01:29 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

Generated 12/3/2024 4:00:18 PM

JOB DESCRIPTION

WA02|Olympic View Sanitary LF - Leachate Pond
Annual Leachate Pond - Jul

JOB NUMBER

280-199897-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

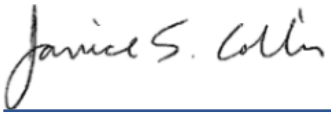
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
12/3/2024 4:00:18 PM

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-199897-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate Pond

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Job Narrative
280-199897-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The sample was received on 11/21/2024 9:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

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

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

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

Detection Summary

Client: Waste Management
Job ID: 280-199897-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate Pond

Client Sample ID: L-POND - 241120
Lab Sample ID: 280-199897-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper, Total	2.2		2.0		ug/L	1		200.8	Total Recoverable
Nickel, Total	21		0.50		ug/L	1		200.8	Total Recoverable
Zinc, Total	7.9		2.5		ug/L	1		200.8	Total Recoverable
Chemical Oxygen Demand (COD)	88		10		mg/L	1		410.4	Total/NA
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.8	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Specific Conductivity	1603				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	6.1				mg/L	1		Field Sampling	Total/NA
eH	-31.3				millivolts	1		Field Sampling	Total/NA
Turbidity	12.2				NTU	1		Field Sampling	Total/NA
Temperature	7.4				Degrees C	1		Field Sampling	Total/NA
pH	7.48				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-199897-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate Pond

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
410.4	COD	EPA	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Job ID: 280-199897-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199897-1	L-POND - 241120	Water	11/20/24 13:15	11/21/24 09:10

Client: Waste Management
Job ID: 280-199897-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate Pond

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: L-POND - 241120
Date Collected: 11/20/24 13:15
Date Received: 11/21/24 09:10
Lab Sample ID: 280-199897-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper, Total	2.2		2.0		ug/L		11/22/24 14:58	11/25/24 21:07	1
Nickel, Total	21		0.50		ug/L		11/22/24 14:58	11/25/24 21:07	1
Zinc, Total	7.9		2.5		ug/L		11/22/24 14:58	11/25/24 21:07	1

General Chemistry

Client Sample ID: L-POND - 241120
Date Collected: 11/20/24 13:15
Date Received: 11/21/24 09:10
Lab Sample ID: 280-199897-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD) (EPA 410.4)	88		10		mg/L			11/26/24 09:02	1
Total Suspended Solids (SM 2540D)	4.8		4.0		mg/L			11/25/24 14:01	1
pH (SM 4500 H+ B)	7.8	HF	0.1		SU			11/21/24 15:00	1
Biochemical Oxygen Demand (SM5210B)	ND		10		mg/L			11/22/24 08:00	2

Method: EPA Field Sampling - Field Sampling

Client Sample ID: L-POND - 241120
Date Collected: 11/20/24 13:15
Date Received: 11/21/24 09:10
Lab Sample ID: 280-199897-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	1603				umhos/cm			11/20/24 14:15	1
Dissolved Oxygen	6.1				mg/L			11/20/24 14:15	1
eH	-31.3				millivolts			11/20/24 14:15	1
Turbidity	12.2				NTU			11/20/24 14:15	1
Temperature	7.4				Degrees C			11/20/24 14:15	1
pH	7.48				SU			11/20/24 14:15	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-676210/1-A
Matrix: Water
Analysis Batch: 676645

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper, Total	ND		2.0		ug/L		11/22/24 14:58	11/25/24 20:07	1
Nickel, Total	ND		0.50		ug/L		11/22/24 14:58	11/25/24 20:07	1
Zinc, Total	ND		2.5		ug/L		11/22/24 14:58	11/25/24 20:07	1

Lab Sample ID: LCS 280-676210/24-A
Matrix: Water
Analysis Batch: 676645

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper, Total	40.0	41.5		ug/L		104	90 - 115
Nickel, Total	40.0	40.1		ug/L		100	86 - 115
Zinc, Total	40.0	38.9		ug/L		97	88 - 115

Lab Sample ID: 280-199925-B-1-E MS
Matrix: Water
Analysis Batch: 676645

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 676210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper, Total	2.2		40.0	41.2		ug/L		98	90 - 115
Nickel, Total	2.9		40.0	40.3		ug/L		93	86 - 115
Zinc, Total	ND		40.0	37.9		ug/L		95	88 - 115

Lab Sample ID: 280-199925-B-1-F MSD
Matrix: Water
Analysis Batch: 676645

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 676210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper, Total	2.2		40.0	40.4		ug/L		95	90 - 115	2	20
Nickel, Total	2.9		40.0	40.3		ug/L		93	86 - 115	0	20
Zinc, Total	ND		40.0	35.2		ug/L		88	88 - 115	7	20

Method: 410.4 - COD

Lab Sample ID: MB 280-676609/4
Matrix: Water
Analysis Batch: 676609

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		10		mg/L			11/26/24 09:02	1

Lab Sample ID: LCS 280-676609/3
Matrix: Water
Analysis Batch: 676609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	100	99.4		mg/L		99	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 280-199911-A-1 MS
Matrix: Water
Analysis Batch: 676609

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)	17		50.0	62.3		mg/L		91	90 - 110		

Lab Sample ID: 280-199911-A-1 MSD
Matrix: Water
Analysis Batch: 676609

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	17		50.0	61.9		mg/L		90	90 - 110	1	11

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-676516/1
Matrix: Water
Analysis Batch: 676516

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/25/24 14:01	1

Lab Sample ID: LCS 280-676516/2
Matrix: Water
Analysis Batch: 676516

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			501	430		mg/L		86	79 - 114		

Lab Sample ID: 280-199755-F-1 DU
Matrix: Water
Analysis Batch: 676516

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	11			10.8		mg/L				0	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-676148/4
Matrix: Water
Analysis Batch: 676148

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-199898-G-1 DU
Matrix: Water
Analysis Batch: 676148

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.8			8.0		SU				2	5

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-676185/4
Matrix: Water
Analysis Batch: 676185

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: SCB 280-676185/1
Matrix: Water
Analysis Batch: 676185

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

Analyte	SCB Result	SCB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: USB 280-676185/2
Matrix: Water
Analysis Batch: 676185

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: LCS 280-676185/3
Matrix: Water
Analysis Batch: 676185

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	192		mg/L		97	85 - 115		

Lab Sample ID: LCSD 280-676185/15
Matrix: Water
Analysis Batch: 676185

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
Biochemical Oxygen Demand			198	189		mg/L		95	85 - 115	2	20

Lab Sample ID: 280-199902-B-1 DU
Matrix: Water
Analysis Batch: 676185

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	ND			ND		mg/L				NC	20

QC Association Summary

Client: Waste Management
Job ID: 280-199897-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate Pond

Metals

Prep Batch: 676210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199897-1	L-POND - 241120	Total Recoverable	Water	200.8	
MB 280-676210/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-676210/24-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-199925-B-1-E MS	Matrix Spike	Total Recoverable	Water	200.8	
280-199925-B-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Analysis Batch: 676645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199897-1	L-POND - 241120	Total Recoverable	Water	200.8	676210
MB 280-676210/1-A	Method Blank	Total Recoverable	Water	200.8	676210
LCS 280-676210/24-A	Lab Control Sample	Total Recoverable	Water	200.8	676210
280-199925-B-1-E MS	Matrix Spike	Total Recoverable	Water	200.8	676210
280-199925-B-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	676210

General Chemistry

Analysis Batch: 676148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199897-1	L-POND - 241120	Total/NA	Water	SM 4500 H+ B	
LCS 280-676148/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-199898-G-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 676185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199897-1	L-POND - 241120	Total/NA	Water	SM5210B	
MB 280-676185/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-676185/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-676185/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-676185/3	Lab Control Sample	Total/NA	Water	SM5210B	
LCSD 280-676185/15	Lab Control Sample Dup	Total/NA	Water	SM5210B	
280-199902-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Analysis Batch: 676516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199897-1	L-POND - 241120	Total/NA	Water	SM 2540D	
MB 280-676516/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-676516/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-199755-F-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 676609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199897-1	L-POND - 241120	Total/NA	Water	410.4	
MB 280-676609/4	Method Blank	Total/NA	Water	410.4	
LCS 280-676609/3	Lab Control Sample	Total/NA	Water	410.4	
280-199911-A-1 MS	Matrix Spike	Total/NA	Water	410.4	
280-199911-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Field Service / Mobile Lab

Analysis Batch: 676922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199897-1	L-POND - 241120	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-199897-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate Pond

Client Sample ID: L-POND - 241120
Lab Sample ID: 280-199897-1

Date Collected: 11/20/24 13:15
Matrix: Water
Date Received: 11/21/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	676210	11/22/24 14:58	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			676645	11/25/24 21:07	LMT	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	676609	11/26/24 09:02	MF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	676516	11/25/24 14:01	BRD	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			676148	11/21/24 15:00	EL	EET DEN
Total/NA	Analysis	SM5210B		2	120 mL	300 mL	676185	11/22/24 08:00	MF	EET DEN
Total/NA	Analysis	Field Sampling		1			676922	11/20/24 14:15	P1C	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

and Patrick Madej
Email : PMadejeWM.com

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Carmen Tappero	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-131952-6588.1
Client Contact: Matt Frame	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page:
Company: Waste Management	PWSID:			Job #:
Address: Olympic View Transfer Station 9300 Southwest Barney White Ro	Due Date Requested:			
City: Bremerton	TAT Requested (days):			
State, Zip: WA, 98312	Compliance Project: Δ Yes Δ No			
Phone: 206-276-4009	PO #: Purchase Order Requested			
Email: mframe2@wm.com	WO #:			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692 - Annual Leachate Pond - Jul			
Site: Washington	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500 - pH	200.8 - Total Metals	2540D - TSS	SM5210 - BOD	410.4 - COD	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	S		
L-Pond-241120	11/20/24	1315	G	Water	N	N	X	X	X	X	X		

280-199897 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
	Carmen Tappero	11/20/24 1400	Aspect		11/21/24 0910	EEN
	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: 0.4, 0.1 + R, IR DAMOV

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: | | | | |

Sample Point: L-P0N0 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: [Y] or [N]

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Purging Device [ ] — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device [ ]

Filter Type: [ ] — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Grab Leachate Sample

Sample Tube Type: [ ] — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1315	1st	7.48	1603	7.4	122	6.1	-313	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
112024	7.48	1603	7.4	122	6.1	-313	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Yellow Odor: N/A Color: Yellow Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: [Y] or [N]

Specific Comments (including purge/well volume calculations if required):

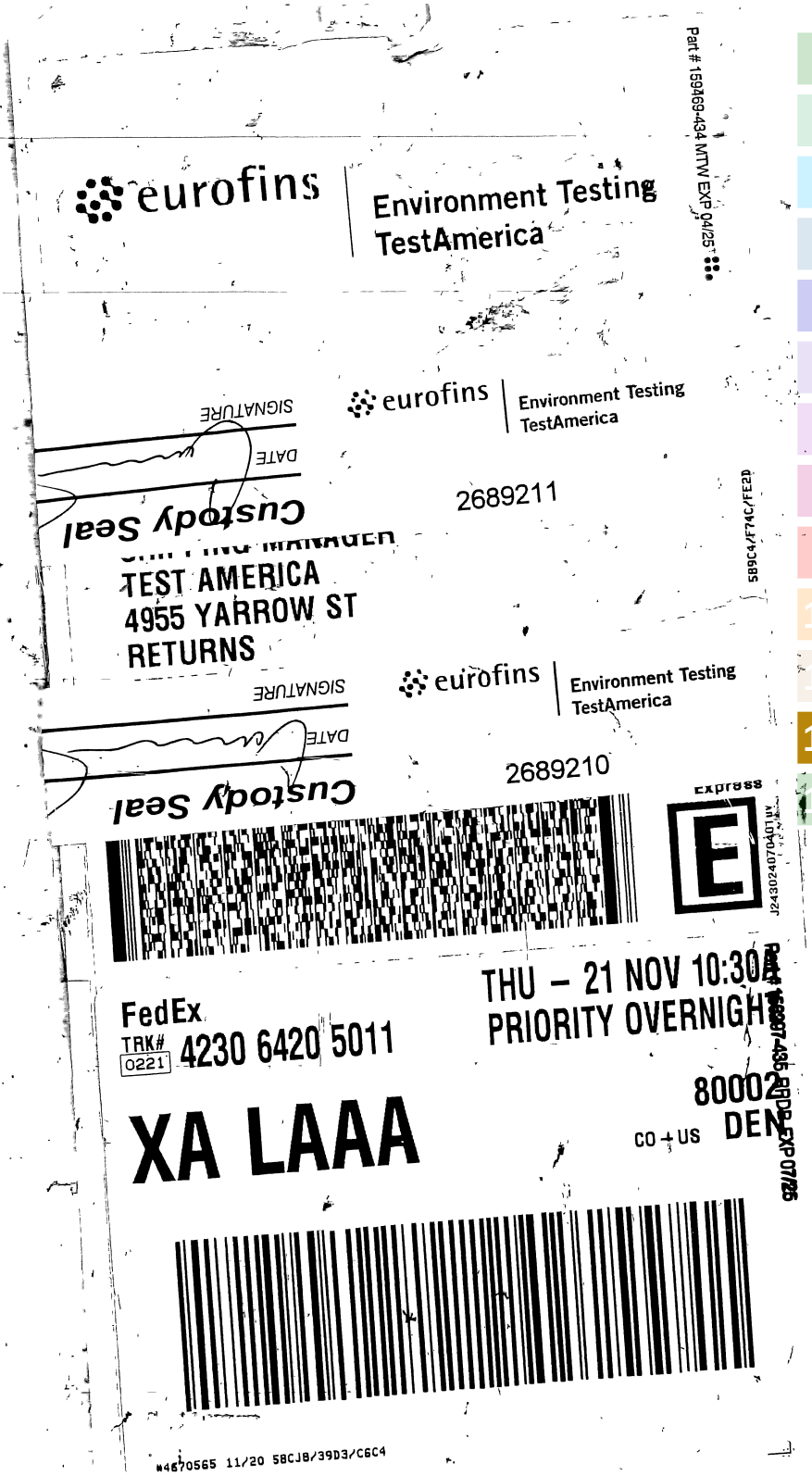
Grab Leachate Sample

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/20/24	Carmen Tappero	Carmen Tapp	Aspect
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy


280-199897 Waybill


eurofins
Environment Testing
TestAmerica
Part # 159469-434 MTW EXP 04/25
SIGNATURE
DATE
Custody Seal
2689211
TEST AMERICA
4955 YARROW ST
RETURNS
5B9C4/F74C/FE2D
eurofins
Environment Testing
TestAmerica
SIGNATURE
DATE
Custody Seal
2689210
Express
FedEx
TRK#
0221
4230 6420 5011
THU – 21 NOV 10:30
PRIORITY OVERNIGHT
80002
CO - US
DEN
XA LAAA
W46 70565 11/20 5BCJB/39D3/C6C4

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199897-1

Login Number: 199897
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

Generated 12/11/2024 2:40:59 PM

JOB DESCRIPTION

WA02|Olympic View Sanitary LF
Annual OBW-TB/L-INF App I/II -Dec

JOB NUMBER

280-199902-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

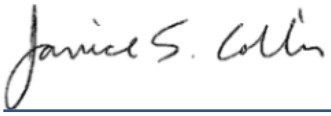
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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12/11/2024 2:40:59 PM

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-199902-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-199902-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 11/21/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): OBWL-TD-241120 (280-199902-1). The container labels list the sample ID as OBWL- TD, while the COC lists OBWL-TB. The smaple was logged per the sample ID on the container labels.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

Subcontract Work
Method Total Arsenic (ARI): This method was subcontracted to Analytical Resources, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
Method 8260D: In analytical batch 280-677221 for Method 8260, the preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: OBWL-TD-241120 (280-199902-1). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260D: For Method 8260, the following compounds were outside control limits (20%) in the continuing calibration verification (CCV) associated with batch 280-677221: Bromomethane, Iodomethane and trans-1,4-Dichloro-2-butene at -49.7%, -49.3%, and -31.5%, respectively. These compounds are considered poor performers and the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries are within limits; therefore, the data have been reported. The associated samples were non-detect for the affected analytes.

Method 8260D: For Method 8260, the continuing calibration verification (CCV) associated with batch 280-677221 recovered above the upper control limit (20%) for Vinyl acetate at 39.5%. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: OBWL-TD-241120 (280-199902-1) and (CCV 280-677221/2).

Method 8260D: For Method 8260, insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 280-677221. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Job ID: 280-199902-1 (Continued) Eurofins Denver

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-677418 recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene. Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes. TRIP BLANK (280-199902-2) and (LCSD 280-677418/6)

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-677418 recovered outside the control limit 20%D for Vinyl Acetate 22.7%D. This analyte is a poor performer. The LCS/LCSD recovered within control limits therefore the data were reported. TRIP BLANK (280-199902-2) and (CCV 280-677418/3)

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-677418. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. TRIP BLANK (280-199902-2)

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

Metals
Method 6010D - Total Recoverable: OBWL-TD-241120 (280-199902-1), (280-199902-G-1 MS) and (280-199902-G-1 MSD) The final observed digestion temperature was 96 degrees, outside of the SOP range of 90-95 degrees. This is not expected to impact data quality.

Method 6020B - Total Recoverable: OBWL-TD-241120 (280-199902-1), (280-199902-G-1 MS) and (280-199902-G-1 MSD) The final observed digestion temperature was 96 degrees, outside of the SOP range of 90-95 degrees. This is not expected to impact data quality.

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 280-677389 recovered above the upper control limit for V. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: OBWL-TD-241120 (280-199902-1), (CCV 280-677389/66), (280-199902-G-1-E MS), (280-199902-G-1-F MSD), (280-199902-G-1-D PDS) and (280-199902-G-1-D SD ^5).

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

General Chemistry
Method 2540C_Calcd: The results reported for the following sample do not concur with results previously reported for this site: OBWL-TD-241120 (280-199902-1). Reanalysis was performed, and the result confirmed.

Method 300.0_28D: The results reported for the following samples do not concur with results previously reported for this site: OBWL-TD-241120 (280-199902-1). Reanalysis was performed, and the results confirmed.

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

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

Detection Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-199902-1

Client Sample ID: OBWL-TD-241120 — Lab Sample ID: 280-199902-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl alcohol, tert-	10		10		ug/L	1		8260D	Total/NA
Iron, Total	0.58		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	18		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	0.070		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	3.1		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	1.7		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	5.1		1.0		mg/L	1		6010D	Dissolved
Antimony, Total	0.0013		0.0010		mg/L	1		6020B	Total Recoverable
Barium, Total	0.0092		0.0010		mg/L	1		6020B	Total Recoverable
Copper, Total	0.0048		0.0020		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.032		0.0010		mg/L	1		6020B	Total Recoverable
Zinc, Total	0.065		0.0050		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.029		0.0010		mg/L	1		6020B	Dissolved
Sulfate	25		5.0		mg/L	1		300.0	Total/NA
Ammonia (as N)	0.39		0.030		mg/L	1		350.1	Total/NA
Nitrate as N	0.48		0.050		mg/L	1		353.2	Total/NA
Nitrate/Nitrite	0.48		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand (COD)	11		10		mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	47		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	47		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	84		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.4		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon - Average	2.2		1.0		mg/L	1		SM 5310B	Total/NA
Specific Conductivity	169.6				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	8.1				mg/L	1		Field Sampling	Total/NA
eH	89.9				millivolts	1		Field Sampling	Total/NA
Turbidity	10.1				NTU	1		Field Sampling	Total/NA
Temperature	9.1				Degrees C	1		Field Sampling	Total/NA
pH	6.87				SU	1		Field Sampling	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-199902-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-199902-1
Project/Site: WA02|Olympic View Sanitary LF

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
6020B	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrate	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
410.4	COD	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
Subcontract	Total Arsenic (ARI)	None	SC0056
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Sample Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-199902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199902-1	OBWL-TD-241120	Water	11/20/24 14:45	11/21/24 09:10
280-199902-2	TRIP BLANK	Water	11/20/24 00:00	11/21/24 09:10

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

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			12/04/24 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*12/04/24 21:03*	*1*

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

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/03/24 22:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/03/24 22:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/03/24 22:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			12/03/24 22:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/03/24 22:19	1
1,1-Dichloroethane	ND		1.0		ug/L			12/03/24 22:19	1
1,1-Dichloroethene	ND		1.0		ug/L			12/03/24 22:19	1
1,1-Dichloropropene	ND		1.0		ug/L			12/03/24 22:19	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			12/03/24 22:19	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/03/24 22:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/03/24 22:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/03/24 22:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/03/24 22:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/03/24 22:19	1
1,2-Dichloroethane	ND		1.0		ug/L			12/03/24 22:19	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			12/03/24 22:19	1
1,2-Dichloropropane	ND		1.0		ug/L			12/03/24 22:19	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			12/03/24 22:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/03/24 22:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/03/24 22:19	1
1,3-Dichloropropane	ND		1.0		ug/L			12/03/24 22:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/03/24 22:19	1
1,4-Dioxane	ND		40		ug/L			12/03/24 22:19	1
2,2-Dichloropropane	ND		1.0		ug/L			12/03/24 22:19	1
2-Butanone (MEK)	ND		10		ug/L			12/03/24 22:19	1
o-Chlorotoluene	ND		1.0		ug/L			12/03/24 22:19	1
2-Hexanone	ND		5.0		ug/L			12/03/24 22:19	1
Butyl alcohol, tert-	**10**		10		ug/L			12/03/24 22:19	1
p-Chlorotoluene	ND		1.0		ug/L			12/03/24 22:19	1
p-Cymene	ND		1.0		ug/L			12/03/24 22:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/03/24 22:19	1
Acetone	ND		15		ug/L			12/03/24 22:19	1
Acetonitrile	ND		30		ug/L			12/03/24 22:19	1
Acrolein	ND		20		ug/L			12/03/24 22:19	1
Acrylonitrile	ND		20		ug/L			12/03/24 22:19	1
Benzene	ND		1.0		ug/L			12/03/24 22:19	1
Bromobenzene	ND		1.0		ug/L			12/03/24 22:19	1
Bromoform	ND		2.0		ug/L			12/03/24 22:19	1
Bromomethane	ND		5.0		ug/L			12/03/24 22:19	1

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

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0		ug/L			12/03/24 22:19	1
Carbon tetrachloride	ND		1.0		ug/L			12/03/24 22:19	1
Chlorobenzene	ND		1.0		ug/L			12/03/24 22:19	1
Bromochloromethane	ND		1.0		ug/L			12/03/24 22:19	1
Dibromochloromethane	ND		1.0		ug/L			12/03/24 22:19	1
Chloroethane	ND		2.0		ug/L			12/03/24 22:19	1
Chloroform	ND		1.0		ug/L			12/03/24 22:19	1
Chloromethane	ND		2.0		ug/L			12/03/24 22:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/03/24 22:19	1
Cyclohexane	ND		1.0		ug/L			12/03/24 22:19	1
Dibromomethane	ND		1.0		ug/L			12/03/24 22:19	1
Bromodichloromethane	ND		1.0		ug/L			12/03/24 22:19	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/03/24 22:19	1
Dichlorofluoromethane	ND		2.0		ug/L			12/03/24 22:19	1
Ethyl acetate	ND		5.0		ug/L			12/03/24 22:19	1
Ethyl ether	ND		2.0		ug/L			12/03/24 22:19	1
Ethylbenzene	ND		1.0		ug/L			12/03/24 22:19	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/03/24 22:19	1
Hexachlorobutadiene	ND		2.0		ug/L			12/03/24 22:19	1
Hexane	ND		2.0		ug/L			12/03/24 22:19	1
Iodomethane	ND		5.0		ug/L			12/03/24 22:19	1
Isobutanol	ND		110		ug/L			12/03/24 22:19	1
Isopropyl ether	ND		10		ug/L			12/03/24 22:19	1
Isopropylbenzene	ND		1.0		ug/L			12/03/24 22:19	1
Methacrylonitrile	ND		15		ug/L			12/03/24 22:19	1
Methyl acetate	ND		5.0		ug/L			12/03/24 22:19	1
Methyl tert-butyl ether	ND		5.0		ug/L			12/03/24 22:19	1
Methylcyclohexane	ND		1.0		ug/L			12/03/24 22:19	1
Methylene Chloride	ND		2.0		ug/L			12/03/24 22:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/03/24 22:19	1
Naphthalene	ND		3.0		ug/L			12/03/24 22:19	1
Butyl alcohol, n-	ND		60		ug/L			12/03/24 22:19	1
n-Butylbenzene	ND		1.0		ug/L			12/03/24 22:19	1
N-Propylbenzene	ND		1.0		ug/L			12/03/24 22:19	1
o-Xylene	ND		1.0		ug/L			12/03/24 22:19	1
sec-Butylbenzene	ND		1.0		ug/L			12/03/24 22:19	1
Tetrachloroethene	ND		1.0		ug/L			12/03/24 22:19	1
Tetrahydrofuran	ND		7.0		ug/L			12/03/24 22:19	1
Toluene	ND		1.0		ug/L			12/03/24 22:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/03/24 22:19	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/03/24 22:19	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/03/24 22:19	1
Trichloroethene	ND		1.0		ug/L			12/03/24 22:19	1
Trichlorofluoromethane	ND		2.0		ug/L			12/03/24 22:19	1
Vinyl acetate	ND		3.0		ug/L			12/03/24 22:19	1
Vinyl chloride	ND		1.0		ug/L			12/03/24 22:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/03/24 22:19	1
Styrene	ND		1.0		ug/L			12/03/24 22:19	1
tert-Butylbenzene	ND		1.0		ug/L			12/03/24 22:19	1

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

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		5.0		ug/L			12/03/24 22:19	1
Ethyl tert-butyl ether	ND		5.0		ug/L			12/03/24 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*		*12/03/24 22:19*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*12/03/24 22:19*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*12/03/24 22:19*	*1*

Client Sample ID: TRIP BLANK
Date Collected: 11/20/24 00:00
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/04/24 23:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/04/24 23:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/04/24 23:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			12/04/24 23:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/04/24 23:20	1
1,1-Dichloroethane	ND		1.0		ug/L			12/04/24 23:20	1
1,1-Dichloroethene	ND		1.0		ug/L			12/04/24 23:20	1
1,1-Dichloropropene	ND		1.0		ug/L			12/04/24 23:20	1
1,2,3-Trichlorobenzene	ND	*1	4.0		ug/L			12/04/24 23:20	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/04/24 23:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/04/24 23:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/04/24 23:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/04/24 23:20	1
1,2-Dichloroethane	ND		1.0		ug/L			12/04/24 23:20	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			12/04/24 23:20	1
1,2-Dichloropropane	ND		1.0		ug/L			12/04/24 23:20	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			12/04/24 23:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/04/24 23:20	1
1,3-Dichloropropane	ND		1.0		ug/L			12/04/24 23:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/04/24 23:20	1
1,4-Dioxane	ND		40		ug/L			12/04/24 23:20	1
2,2-Dichloropropane	ND		1.0		ug/L			12/04/24 23:20	1
2-Butanone (MEK)	ND		10		ug/L			12/04/24 23:20	1
o-Chlorotoluene	ND		1.0		ug/L			12/04/24 23:20	1
2-Hexanone	ND		5.0		ug/L			12/04/24 23:20	1
Butyl alcohol, tert-	ND		10		ug/L			12/04/24 23:20	1
p-Chlorotoluene	ND		1.0		ug/L			12/04/24 23:20	1
p-Cymene	ND		1.0		ug/L			12/04/24 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/04/24 23:20	1
Acetone	ND		15		ug/L			12/04/24 23:20	1
Acetonitrile	ND		30		ug/L			12/04/24 23:20	1
Acrolein	ND		20		ug/L			12/04/24 23:20	1
Acrylonitrile	ND		20		ug/L			12/04/24 23:20	1
Benzene	ND		1.0		ug/L			12/04/24 23:20	1
Bromobenzene	ND		1.0		ug/L			12/04/24 23:20	1
Bromoform	ND		2.0		ug/L			12/04/24 23:20	1

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

Client Sample ID: TRIP BLANK
Date Collected: 11/20/24 00:00
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.0		ug/L			12/04/24 23:20	1
Carbon disulfide	ND		2.0		ug/L			12/04/24 23:20	1
Carbon tetrachloride	ND		1.0		ug/L			12/04/24 23:20	1
Chlorobenzene	ND		1.0		ug/L			12/04/24 23:20	1
Bromochloromethane	ND		1.0		ug/L			12/04/24 23:20	1
Dibromochloromethane	ND		1.0		ug/L			12/04/24 23:20	1
Chloroethane	ND		2.0		ug/L			12/04/24 23:20	1
Chloroform	ND		1.0		ug/L			12/04/24 23:20	1
Chloromethane	ND		2.0		ug/L			12/04/24 23:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/04/24 23:20	1
Cyclohexane	ND		1.0		ug/L			12/04/24 23:20	1
Dibromomethane	ND		1.0		ug/L			12/04/24 23:20	1
Bromodichloromethane	ND		1.0		ug/L			12/04/24 23:20	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/04/24 23:20	1
Dichlorofluoromethane	ND		2.0		ug/L			12/04/24 23:20	1
Ethyl acetate	ND		5.0		ug/L			12/04/24 23:20	1
Ethyl ether	ND		2.0		ug/L			12/04/24 23:20	1
Ethylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/04/24 23:20	1
Hexachlorobutadiene	ND		2.0		ug/L			12/04/24 23:20	1
Hexane	ND		2.0		ug/L			12/04/24 23:20	1
Iodomethane	ND		5.0		ug/L			12/04/24 23:20	1
Isobutanol	ND		110		ug/L			12/04/24 23:20	1
Isopropyl ether	ND		10		ug/L			12/04/24 23:20	1
Isopropylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
Methacrylonitrile	ND		15		ug/L			12/04/24 23:20	1
Methyl acetate	ND		5.0		ug/L			12/04/24 23:20	1
Methyl tert-butyl ether	ND		5.0		ug/L			12/04/24 23:20	1
Methylcyclohexane	ND		1.0		ug/L			12/04/24 23:20	1
Methylene Chloride	ND		2.0		ug/L			12/04/24 23:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/04/24 23:20	1
Naphthalene	ND		3.0		ug/L			12/04/24 23:20	1
Butyl alcohol, n-	ND		60		ug/L			12/04/24 23:20	1
n-Butylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
N-Propylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
o-Xylene	ND		1.0		ug/L			12/04/24 23:20	1
sec-Butylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
Tetrachloroethene	ND		1.0		ug/L			12/04/24 23:20	1
Tetrahydrofuran	ND		7.0		ug/L			12/04/24 23:20	1
Toluene	ND		1.0		ug/L			12/04/24 23:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/04/24 23:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/04/24 23:20	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/04/24 23:20	1
Trichloroethene	ND		1.0		ug/L			12/04/24 23:20	1
Trichlorofluoromethane	ND		2.0		ug/L			12/04/24 23:20	1
Vinyl acetate	ND		3.0		ug/L			12/04/24 23:20	1
Vinyl chloride	ND		1.0		ug/L			12/04/24 23:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/04/24 23:20	1
Styrene	ND		1.0		ug/L			12/04/24 23:20	1

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

Client Sample ID: TRIP BLANK
Date Collected: 11/20/24 00:00
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0		ug/L			12/04/24 23:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			12/04/24 23:20	1
Ethyl tert-butyl ether	ND		5.0		ug/L			12/04/24 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*12/04/24 23:20*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*12/04/24 23:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*12/04/24 23:20*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/25/24 08:21	11/26/24 03:52	1
Iron, Total	**0.58**		0.060		mg/L		12/02/24 08:19	12/06/24 07:13	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**18**		0.20		mg/L		11/22/24 08:08	11/23/24 09:39	1
Iron, Dissolved	**0.070**		0.060		mg/L		11/22/24 08:08	11/23/24 09:39	1
Magnesium, Dissolved	**3.1**		0.050		mg/L		11/22/24 08:08	11/23/24 09:39	1
Potassium, Dissolved	**1.7**		1.0		mg/L		11/22/24 08:08	11/23/24 09:39	1
Sodium, Dissolved	**5.1**		1.0		mg/L		11/22/24 08:08	11/23/24 09:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	**0.0013**		0.0010		mg/L		11/25/24 08:21	12/04/24 11:49	1
Arsenic, Total	ND		0.0050		mg/L		11/25/24 08:21	12/04/24 11:49	1
Barium, Total	**0.0092**		0.0010		mg/L		11/25/24 08:21	12/04/24 11:49	1
Beryllium, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:49	1
Cadmium, Total	ND		0.00030		mg/L		11/25/24 08:21	12/04/24 11:49	1
Chromium, Total	ND		0.0030		mg/L		11/25/24 08:21	12/04/24 11:49	1
Copper, Total	**0.0048**		0.0020		mg/L		11/25/24 08:21	12/04/24 11:49	1
Lead, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:49	1
Manganese, Total	**0.032**		0.0010		mg/L		11/25/24 08:21	12/04/24 11:49	1
Nickel, Total	ND		0.0040		mg/L		11/25/24 08:21	12/04/24 11:49	1
Selenium, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:49	1
Silver, Total	ND		0.0020		mg/L		11/25/24 08:21	12/04/24 11:49	1
Thallium, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:49	1
Vanadium, Total	ND	^+	0.0020		mg/L		11/25/24 08:21	12/04/24 11:49	1
Zinc, Total	**0.065**		0.0050		mg/L		11/25/24 08:21	12/04/24 16:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.029**		0.0010		mg/L		11/22/24 08:08	11/27/24 15:43	1

General Chemistry

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			11/26/24 19:52	1
Sulfate (EPA 300.0)	**25**		5.0		mg/L			11/26/24 19:52	1
Ammonia (as N) (EPA 350.1)	**0.39**		0.030		mg/L			12/06/24 14:40	1
Nitrate as N (EPA 353.2)	**0.48**		0.050		mg/L			11/21/24 19:25	1
Nitrate/Nitrite (EPA 353.2)	**0.48**		0.050		mg/L			11/27/24 14:27	1
Chemical Oxygen Demand (COD) (EPA 410.4)	**11**		10		mg/L			11/26/24 09:02	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**47**		10		mg/L			11/22/24 21:19	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**47**		10		mg/L			11/22/24 21:19	1
Total Dissolved Solids (TDS) (SM 2540C)	**84**		5.0		mg/L			11/26/24 09:55	1
Total Suspended Solids (SM 2540D)	**4.4**		4.0		mg/L			11/27/24 08:45	1
Total Organic Carbon - Average (SM 5310B)	**2.2**		1.0		mg/L			12/05/24 12:11	1
Biochemical Oxygen Demand (SM5210B)	ND		5.0		mg/L			11/22/24 08:00	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: OBWL-TD-241120
Date Collected: 11/20/24 14:45
Date Received: 11/21/24 09:10

Lab Sample ID: 280-199902-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	**169.6**				umhos/cm			11/20/24 15:45	1
Dissolved Oxygen	**8.1**				mg/L			11/20/24 15:45	1
eH	**89.9**				millivolts			11/20/24 15:45	1
Turbidity	**10.1**				NTU			11/20/24 15:45	1
Temperature	**9.1**				Degrees C			11/20/24 15:45	1
pH	**6.87**				SU			11/20/24 15:45	1

Surrogate Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-199902-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(80-125)
280-199902-1	OBWL-TD-241120	85	94	93
280-199902-2	TRIP BLANK	103	102	99
LCS 280-677221/4	Lab Control Sample	94	95	94
LCS 280-677221/6	Lab Control Sample	85	98	95
LCS 280-677418/5	Lab Control Sample	98	100	99
LCS 280-677418/7	Lab Control Sample	101	103	99
LCSD 280-677221/5	Lab Control Sample Dup	86	97	96
LCSD 280-677221/7	Lab Control Sample Dup	86	95	96
LCSD 280-677418/6	Lab Control Sample Dup	100	101	99
LCSD 280-677418/8	Lab Control Sample Dup	104	103	99
MB 280-677221/9	Method Blank	87	96	95
MB 280-677418/10	Method Blank	108	105	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	DBFM
Lab Sample ID	Client Sample ID	(70-127)	(77-120)
280-199902-1	OBWL-TD-241120		96
280-200161-D-4 MS	Matrix Spike	99	
280-200161-D-4 MSD	Matrix Spike Duplicate	100	
LCS 280-677412/1002	Lab Control Sample	104	102
LCSD 280-677412/3	Lab Control Sample Dup	98	100
MB 280-677412/5	Method Blank	104	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 280-677221/9
Matrix: Water
Analysis Batch: 677221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			12/03/24 19:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1-Dichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1-Dichloroethene	ND		1.0		ug/L			12/03/24 19:06	1
1,1-Dichloropropene	ND		1.0		ug/L			12/03/24 19:06	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			12/03/24 19:06	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/03/24 19:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/03/24 19:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dichloropropane	ND		1.0		ug/L			12/03/24 19:06	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			12/03/24 19:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,3-Dichloropropane	ND		1.0		ug/L			12/03/24 19:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,4-Dioxane	ND		40		ug/L			12/03/24 19:06	1
2,2-Dichloropropane	ND		1.0		ug/L			12/03/24 19:06	1
2-Butanone (MEK)	ND		10		ug/L			12/03/24 19:06	1
o-Chlorotoluene	ND		1.0		ug/L			12/03/24 19:06	1
2-Hexanone	ND		5.0		ug/L			12/03/24 19:06	1
Butyl alcohol, tert-	ND		10		ug/L			12/03/24 19:06	1
p-Chlorotoluene	ND		1.0		ug/L			12/03/24 19:06	1
p-Cymene	ND		1.0		ug/L			12/03/24 19:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/03/24 19:06	1
Acetone	ND		15		ug/L			12/03/24 19:06	1
Acetonitrile	ND		30		ug/L			12/03/24 19:06	1
Acrolein	ND		20		ug/L			12/03/24 19:06	1
Acrylonitrile	ND		20		ug/L			12/03/24 19:06	1
Benzene	ND		1.0		ug/L			12/03/24 19:06	1
Bromobenzene	ND		1.0		ug/L			12/03/24 19:06	1
Bromoform	ND		2.0		ug/L			12/03/24 19:06	1
Bromomethane	ND		5.0		ug/L			12/03/24 19:06	1
Carbon disulfide	ND		2.0		ug/L			12/03/24 19:06	1
Carbon tetrachloride	ND		1.0		ug/L			12/03/24 19:06	1
Chlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
Bromochloromethane	ND		1.0		ug/L			12/03/24 19:06	1
Dibromochloromethane	ND		1.0		ug/L			12/03/24 19:06	1
Chloroethane	ND		2.0		ug/L			12/03/24 19:06	1
Chloroform	ND		1.0		ug/L			12/03/24 19:06	1
Chloromethane	ND		2.0		ug/L			12/03/24 19:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/03/24 19:06	1

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

Lab Sample ID: MB 280-677221/9
Matrix: Water
Analysis Batch: 677221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0		ug/L			12/03/24 19:06	1
Dibromomethane	ND		1.0		ug/L			12/03/24 19:06	1
Bromodichloromethane	ND		1.0		ug/L			12/03/24 19:06	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/03/24 19:06	1
Dichlorofluoromethane	ND		2.0		ug/L			12/03/24 19:06	1
Ethyl acetate	ND		5.0		ug/L			12/03/24 19:06	1
Ethyl ether	ND		2.0		ug/L			12/03/24 19:06	1
Ethylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/03/24 19:06	1
Hexachlorobutadiene	ND		2.0		ug/L			12/03/24 19:06	1
Hexane	ND		2.0		ug/L			12/03/24 19:06	1
Iodomethane	ND		5.0		ug/L			12/03/24 19:06	1
Isobutanol	ND		110		ug/L			12/03/24 19:06	1
Isopropyl ether	ND		10		ug/L			12/03/24 19:06	1
Isopropylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
Methacrylonitrile	ND		15		ug/L			12/03/24 19:06	1
Methyl acetate	ND		5.0		ug/L			12/03/24 19:06	1
Methyl tert-butyl ether	ND		5.0		ug/L			12/03/24 19:06	1
Methylcyclohexane	ND		1.0		ug/L			12/03/24 19:06	1
Methylene Chloride	ND		2.0		ug/L			12/03/24 19:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/03/24 19:06	1
Naphthalene	ND		3.0		ug/L			12/03/24 19:06	1
Butyl alcohol, n-	ND		60		ug/L			12/03/24 19:06	1
n-Butylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
N-Propylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
o-Xylene	ND		1.0		ug/L			12/03/24 19:06	1
sec-Butylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
Tetrachloroethene	ND		1.0		ug/L			12/03/24 19:06	1
Tetrahydrofuran	ND		7.0		ug/L			12/03/24 19:06	1
Toluene	ND		1.0		ug/L			12/03/24 19:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/03/24 19:06	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/03/24 19:06	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/03/24 19:06	1
Trichloroethene	ND		1.0		ug/L			12/03/24 19:06	1
Trichlorofluoromethane	ND		2.0		ug/L			12/03/24 19:06	1
Vinyl acetate	ND		3.0		ug/L			12/03/24 19:06	1
Vinyl chloride	ND		1.0		ug/L			12/03/24 19:06	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/03/24 19:06	1
Styrene	ND		1.0		ug/L			12/03/24 19:06	1
tert-Butylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			12/03/24 19:06	1
Ethyl tert-butyl ether	ND		5.0		ug/L			12/03/24 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*12/03/24 19:06*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*12/03/24 19:06*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*12/03/24 19:06*	*1*

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

Lab Sample ID: LCS 280-677221/4
Matrix: Water
Analysis Batch: 677221

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	50.0	51.2		ug/L		102	80 - 124
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	80 - 123
1,1,2,2-Tetrachloroethane	50.0	47.1		ug/L		94	74 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.2		ug/L		108	73 - 132
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	49.3		ug/L		99	78 - 121
1,1-Dichloroethene	50.0	49.1		ug/L		98	77 - 121
1,1-Dichloropropene	50.0	49.8		ug/L		100	77 - 123
1,2,3-Trichlorobenzene	50.0	53.2		ug/L		106	65 - 129
1,2,3-Trichloropropane	50.0	47.5		ug/L		95	80 - 120
1,2,4-Trichlorobenzene	50.0	52.8		ug/L		106	74 - 126
1,2,4-Trimethylbenzene	50.0	48.3		ug/L		97	79 - 124
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/L		106	73 - 128
1,2-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	43.2		ug/L		86	71 - 121
1,2-Dichloropropane	50.0	50.1		ug/L		100	78 - 120
1,3,5-Trimethylbenzene	50.0	48.5		ug/L		97	80 - 122
1,3-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120
1,3-Dichloropropane	50.0	47.4		ug/L		95	77 - 122
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120
1,4-Dioxane	1000	1120		ug/L		112	46 - 140
2,2-Dichloropropane	50.0	52.1		ug/L		104	75 - 131
2-Butanone (MEK)	200	202		ug/L		101	58 - 135
o-Chlorotoluene	50.0	48.9		ug/L		98	80 - 120
2-Hexanone	200	189		ug/L		95	62 - 137
Butyl alcohol, tert-	500	576		ug/L		115	54 - 140
p-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120
p-Cymene	50.0	49.8		ug/L		100	80 - 122
4-Methyl-2-pentanone (MIBK)	200	203		ug/L		101	66 - 135
Acetone	200	185		ug/L		92	61 - 134
Acrolein	494	486		ug/L		98	31 - 174
Acrylonitrile	500	498		ug/L		100	70 - 126
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromobenzene	50.0	48.3		ug/L		97	80 - 120
Bromoform	50.0	55.4		ug/L		111	79 - 138
Bromomethane	50.0	25.1		ug/L		50	29 - 148
Carbon disulfide	50.0	49.4		ug/L		99	70 - 121
Carbon tetrachloride	50.0	53.1		ug/L		106	79 - 127
Chlorobenzene	50.0	47.6		ug/L		95	80 - 120
Bromochloromethane	50.0	49.8		ug/L		100	80 - 123
Dibromochloromethane	50.0	51.8		ug/L		104	80 - 125
Chloroethane	50.0	51.6		ug/L		103	56 - 141
Chloroform	50.0	48.7		ug/L		97	80 - 120
Chloromethane	50.0	45.0		ug/L		90	56 - 133
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120
Cyclohexane	50.0	48.5		ug/L		97	68 - 125
Dibromomethane	50.0	49.0		ug/L		98	80 - 120
Bromodichloromethane	50.0	49.2		ug/L		98	80 - 123

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

Lab Sample ID: LCS 280-677221/4
Matrix: Water
Analysis Batch: 677221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	50.0	49.8		ug/L		100	47 - 135
Dichlorofluoromethane	50.0	48.5		ug/L		97	63 - 135
Ethyl ether	50.0	49.3		ug/L		99	68 - 132
Ethylbenzene	50.0	48.8		ug/L		98	80 - 120
1,2-Dibromoethane (EDB)	50.0	46.1		ug/L		92	80 - 120
Hexachlorobutadiene	50.0	50.3		ug/L		101	73 - 128
Hexane	50.0	44.4		ug/L		89	55 - 143
Iodomethane	50.0	25.3		ug/L		51	43 - 139
Isobutanol	1250	1240		ug/L		99	46 - 146
Isopropylbenzene	50.0	48.3		ug/L		97	78 - 122
Methyl acetate	100	92.5		ug/L		93	59 - 136
Methyl tert-butyl ether	50.0	50.2		ug/L		100	80 - 120
Methylcyclohexane	50.0	48.3		ug/L		97	64 - 130
Methylene Chloride	50.0	47.2		ug/L		94	78 - 120
m-Xylene & p-Xylene	50.0	47.1		ug/L		94	80 - 120
Naphthalene	50.0	54.0		ug/L		108	60 - 124
n-Butylbenzene	50.0	47.6		ug/L		95	59 - 140
N-Propylbenzene	50.0	48.4		ug/L		97	80 - 123
o-Xylene	50.0	48.8		ug/L		98	80 - 120
sec-Butylbenzene	50.0	49.9		ug/L		100	80 - 123
Tetrachloroethene	50.0	49.7		ug/L		99	80 - 121
Tetrahydrofuran	100	100		ug/L		100	62 - 130
Toluene	50.0	50.9		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	79 - 121
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	80 - 123
trans-1,4-Dichloro-2-butene	50.0	34.2		ug/L		68	51 - 138
Trichloroethene	50.0	51.8		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	52.0		ug/L		104	54 - 144
Vinyl acetate	100	140		ug/L		140	55 - 161
Vinyl chloride	50.0	52.1		ug/L		104	67 - 127
cis-1,3-Dichloropropene	50.0	47.4		ug/L		95	76 - 129
Styrene	50.0	50.0		ug/L		100	80 - 120
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Toluene-d8 (Surr)	*94*		*80 - 125*

Lab Sample ID: LCS 280-677221/6
Matrix: Water
Analysis Batch: 677221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trichlorobenzene	25.0	24.3		ug/L		97	50 - 149
Acetonitrile	250	242		ug/L		97	23 - 155
Ethyl acetate	50.0	48.5		ug/L		97	35 - 149
Isopropyl ether	25.0	24.8		ug/L		99	63 - 128

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

Lab Sample ID: LCS 280-677221/6
Matrix: Water
Analysis Batch: 677221

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methacrylonitrile			250	242		ug/L		97	42 - 142		
Butyl alcohol, n-			625	665		ug/L		106	10 - 178		
Tert-amyl methyl ether			25.0	25.1		ug/L		100	53 - 135		
Ethyl tert-butyl ether			25.0	24.3		ug/L		97	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Toluene-d8 (Surr)	*95*		*80 - 125*

Lab Sample ID: LCSD 280-677221/5
Matrix: Water
Analysis Batch: 677221

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			50.0	51.4		ug/L		103	80 - 124	0	20
1,1,1-Trichloroethane			50.0	49.9		ug/L		100	80 - 123	4	20
1,1,2,2-Tetrachloroethane			50.0	48.4		ug/L		97	74 - 123	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.9		ug/L		100	73 - 132	8	23
1,1,2-Trichloroethane			50.0	50.3		ug/L		101	80 - 120	2	20
1,1-Dichloroethane			50.0	47.8		ug/L		96	78 - 121	3	20
1,1-Dichloroethene			50.0	47.2		ug/L		94	77 - 121	4	21
1,1-Dichloropropene			50.0	47.4		ug/L		95	77 - 123	5	20
1,2,3-Trichlorobenzene			50.0	53.1		ug/L		106	65 - 129	0	20
1,2,3-Trichloropropane			50.0	49.2		ug/L		98	80 - 120	3	20
1,2,4-Trichlorobenzene			50.0	53.5		ug/L		107	74 - 126	1	20
1,2,4-Trimethylbenzene			50.0	47.7		ug/L		95	79 - 124	1	20
1,2-Dibromo-3-Chloropropane			50.0	55.6		ug/L		111	73 - 128	5	21
1,2-Dichlorobenzene			50.0	47.1		ug/L		94	80 - 120	1	20
1,2-Dichloroethane			50.0	42.3		ug/L		85	71 - 121	2	20
1,2-Dichloropropane			50.0	48.6		ug/L		97	78 - 120	3	20
1,3,5-Trimethylbenzene			50.0	47.9		ug/L		96	80 - 122	1	20
1,3-Dichlorobenzene			50.0	46.5		ug/L		93	80 - 120	2	20
1,3-Dichloropropane			50.0	47.5		ug/L		95	77 - 122	0	20
1,4-Dichlorobenzene			50.0	47.0		ug/L		94	80 - 120	0	20
1,4-Dioxane			1000	1130		ug/L		113	46 - 140	1	24
2,2-Dichloropropane			50.0	49.1		ug/L		98	75 - 131	6	22
2-Butanone (MEK)			200	205		ug/L		102	58 - 135	1	20
o-Chlorotoluene			50.0	47.7		ug/L		95	80 - 120	3	20
2-Hexanone			200	198		ug/L		99	62 - 137	4	21
Butyl alcohol, tert-			500	602		ug/L		120	54 - 140	4	29
p-Chlorotoluene			50.0	48.8		ug/L		98	80 - 120	0	20
p-Cymene			50.0	49.0		ug/L		98	80 - 122	2	20
4-Methyl-2-pentanone (MIBK)			200	207		ug/L		103	66 - 135	2	20
Acetone			200	187		ug/L		94	61 - 134	1	21
Acrolein			494	455		ug/L		92	31 - 174	6	23
Acrylonitrile			500	494		ug/L		99	70 - 126	1	20
Benzene			50.0	49.4		ug/L		99	80 - 120	2	20

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

Lab Sample ID: LCSD 280-677221/5
Matrix: Water
Analysis Batch: 677221

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromobenzene			50.0	47.2		ug/L		94	80 - 120	2	20
Bromoform			50.0	56.0		ug/L		112	79 - 138	1	20
Bromomethane			50.0	27.3		ug/L		55	29 - 148	8	40
Carbon disulfide			50.0	46.5		ug/L		93	70 - 121	6	20
Carbon tetrachloride			50.0	51.6		ug/L		103	79 - 127	3	20
Chlorobenzene			50.0	46.5		ug/L		93	80 - 120	2	20
Bromochloromethane			50.0	48.1		ug/L		96	80 - 123	3	20
Dibromochloromethane			50.0	51.5		ug/L		103	80 - 125	0	20
Chloroethane			50.0	52.1		ug/L		104	56 - 141	1	30
Chloroform			50.0	47.4		ug/L		95	80 - 120	3	20
Chloromethane			50.0	44.4		ug/L		89	56 - 133	1	20
cis-1,2-Dichloroethene			50.0	49.8		ug/L		100	80 - 120	3	20
Cyclohexane			50.0	46.4		ug/L		93	68 - 125	4	32
Dibromomethane			50.0	45.8		ug/L		92	80 - 120	7	20
Bromodichloromethane			50.0	47.8		ug/L		96	80 - 123	3	20
Dichlorodifluoromethane			50.0	49.7		ug/L		99	47 - 135	0	21
Dichlorofluoromethane			50.0	49.1		ug/L		98	63 - 135	1	21
Ethyl ether			50.0	48.4		ug/L		97	68 - 132	2	20
Ethylbenzene			50.0	48.2		ug/L		96	80 - 120	1	20
1,2-Dibromoethane (EDB)			50.0	47.2		ug/L		94	80 - 120	2	20
Hexachlorobutadiene			50.0	47.9		ug/L		96	73 - 128	5	20
Hexane			50.0	40.2		ug/L		80	55 - 143	10	23
Iodomethane			50.0	24.6		ug/L		49	43 - 139	3	38
Isobutanol			1250	1320		ug/L		106	46 - 146	6	30
Isopropylbenzene			50.0	48.5		ug/L		97	78 - 122	0	20
Methyl acetate			100	93.6		ug/L		94	59 - 136	1	20
Methyl tert-butyl ether			50.0	49.4		ug/L		99	80 - 120	2	20
Methylcyclohexane			50.0	45.1		ug/L		90	64 - 130	7	21
Methylene Chloride			50.0	47.7		ug/L		95	78 - 120	1	20
m-Xylene & p-Xylene			50.0	46.4		ug/L		93	80 - 120	1	20
Naphthalene			50.0	55.4		ug/L		111	60 - 124	3	21
n-Butylbenzene			50.0	45.8		ug/L		92	59 - 140	4	20
N-Propylbenzene			50.0	48.2		ug/L		96	80 - 123	0	20
o-Xylene			50.0	47.8		ug/L		96	80 - 120	2	20
sec-Butylbenzene			50.0	48.9		ug/L		98	80 - 123	2	20
Tetrachloroethene			50.0	48.3		ug/L		97	80 - 121	3	20
Tetrahydrofuran			100	102		ug/L		102	62 - 130	2	20
Toluene			50.0	49.4		ug/L		99	80 - 120	3	20
trans-1,2-Dichloroethene			50.0	48.5		ug/L		97	79 - 121	3	20
trans-1,3-Dichloropropene			50.0	49.0		ug/L		98	80 - 123	2	20
trans-1,4-Dichloro-2-butene			50.0	35.3		ug/L		71	51 - 138	3	24
Trichloroethene			50.0	50.3		ug/L		101	80 - 120	3	20
Trichlorofluoromethane			50.0	52.4		ug/L		105	54 - 144	1	28
Vinyl acetate			100	138		ug/L		138	55 - 161	1	23
Vinyl chloride			50.0	52.9		ug/L		106	67 - 127	1	25
cis-1,3-Dichloropropene			50.0	47.1		ug/L		94	76 - 129	1	20
Styrene			50.0	48.9		ug/L		98	80 - 120	2	20
tert-Butylbenzene			50.0	48.6		ug/L		97	80 - 120	1	20

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

Lab Sample ID: LCSD 280-677221/5
Matrix: Water
Analysis Batch: 677221

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-677221/7
Matrix: Water
Analysis Batch: 677221

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
1,3,5-Trichlorobenzene			25.0	24.4		ug/L		97	50 - 149	0	20
Acetonitrile			250	249		ug/L		100	23 - 155	3	20
Ethyl acetate			50.0	49.8		ug/L		100	35 - 149	3	20
Isopropyl ether			25.0	25.4		ug/L		101	63 - 128	2	20
Methacrylonitrile			250	248		ug/L		99	42 - 142	3	20
Butyl alcohol, n-			625	694		ug/L		111	10 - 178	4	20
Tert-amyl methyl ether			25.0	25.2		ug/L		101	53 - 135	1	20
Ethyl tert-butyl ether			25.0	24.9		ug/L		100	53 - 137	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: MB 280-677418/10
Matrix: Water
Analysis Batch: 677418

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/05/24 00:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/05/24 00:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/05/24 00:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			12/05/24 00:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/05/24 00:47	1
1,1-Dichloroethane	ND		1.0		ug/L			12/05/24 00:47	1
1,1-Dichloroethene	ND		1.0		ug/L			12/05/24 00:47	1
1,1-Dichloropropene	ND		1.0		ug/L			12/05/24 00:47	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			12/05/24 00:47	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/05/24 00:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/05/24 00:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/05/24 00:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/05/24 00:47	1
1,2-Dichloroethane	ND		1.0		ug/L			12/05/24 00:47	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			12/05/24 00:47	1
1,2-Dichloropropane	ND		1.0		ug/L			12/05/24 00:47	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			12/05/24 00:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/05/24 00:47	1

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

Lab Sample ID: MB 280-677418/10
Matrix: Water
Analysis Batch: 677418

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			12/05/24 00:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/05/24 00:47	1
1,4-Dioxane	ND		40		ug/L			12/05/24 00:47	1
2,2-Dichloropropane	ND		1.0		ug/L			12/05/24 00:47	1
2-Butanone (MEK)	ND		10		ug/L			12/05/24 00:47	1
o-Chlorotoluene	ND		1.0		ug/L			12/05/24 00:47	1
2-Hexanone	ND		5.0		ug/L			12/05/24 00:47	1
Butyl alcohol, tert-	ND		10		ug/L			12/05/24 00:47	1
p-Chlorotoluene	ND		1.0		ug/L			12/05/24 00:47	1
p-Cymene	ND		1.0		ug/L			12/05/24 00:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/05/24 00:47	1
Acetone	ND		15		ug/L			12/05/24 00:47	1
Acetonitrile	ND		30		ug/L			12/05/24 00:47	1
Acrolein	ND		20		ug/L			12/05/24 00:47	1
Acrylonitrile	ND		20		ug/L			12/05/24 00:47	1
Benzene	ND		1.0		ug/L			12/05/24 00:47	1
Bromobenzene	ND		1.0		ug/L			12/05/24 00:47	1
Bromoform	ND		2.0		ug/L			12/05/24 00:47	1
Bromomethane	ND		5.0		ug/L			12/05/24 00:47	1
Carbon disulfide	ND		2.0		ug/L			12/05/24 00:47	1
Carbon tetrachloride	ND		1.0		ug/L			12/05/24 00:47	1
Chlorobenzene	ND		1.0		ug/L			12/05/24 00:47	1
Bromochloromethane	ND		1.0		ug/L			12/05/24 00:47	1
Dibromochloromethane	ND		1.0		ug/L			12/05/24 00:47	1
Chloroethane	ND		2.0		ug/L			12/05/24 00:47	1
Chloroform	ND		1.0		ug/L			12/05/24 00:47	1
Chloromethane	ND		2.0		ug/L			12/05/24 00:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/05/24 00:47	1
Cyclohexane	ND		1.0		ug/L			12/05/24 00:47	1
Dibromomethane	ND		1.0		ug/L			12/05/24 00:47	1
Bromodichloromethane	ND		1.0		ug/L			12/05/24 00:47	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/05/24 00:47	1
Dichlorofluoromethane	ND		2.0		ug/L			12/05/24 00:47	1
Ethyl acetate	ND		5.0		ug/L			12/05/24 00:47	1
Ethyl ether	ND		2.0		ug/L			12/05/24 00:47	1
Ethylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/05/24 00:47	1
Hexachlorobutadiene	ND		2.0		ug/L			12/05/24 00:47	1
Hexane	ND		2.0		ug/L			12/05/24 00:47	1
Iodomethane	ND		5.0		ug/L			12/05/24 00:47	1
Isobutanol	ND		110		ug/L			12/05/24 00:47	1
Isopropyl ether	ND		10		ug/L			12/05/24 00:47	1
Isopropylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
Methacrylonitrile	ND		15		ug/L			12/05/24 00:47	1
Methyl acetate	ND		5.0		ug/L			12/05/24 00:47	1
Methyl tert-butyl ether	ND		5.0		ug/L			12/05/24 00:47	1
Methylcyclohexane	ND		1.0		ug/L			12/05/24 00:47	1
Methylene Chloride	ND		2.0		ug/L			12/05/24 00:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/05/24 00:47	1

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

Lab Sample ID: MB 280-677418/10
Matrix: Water
Analysis Batch: 677418

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		3.0		ug/L			12/05/24 00:47	1
Butyl alcohol, n-	ND		60		ug/L			12/05/24 00:47	1
n-Butylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
N-Propylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
o-Xylene	ND		1.0		ug/L			12/05/24 00:47	1
sec-Butylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
Tetrachloroethene	ND		1.0		ug/L			12/05/24 00:47	1
Tetrahydrofuran	ND		7.0		ug/L			12/05/24 00:47	1
Toluene	ND		1.0		ug/L			12/05/24 00:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/05/24 00:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/05/24 00:47	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/05/24 00:47	1
Trichloroethene	ND		1.0		ug/L			12/05/24 00:47	1
Trichlorofluoromethane	ND		2.0		ug/L			12/05/24 00:47	1
Vinyl acetate	ND		3.0		ug/L			12/05/24 00:47	1
Vinyl chloride	ND		1.0		ug/L			12/05/24 00:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/05/24 00:47	1
Styrene	ND		1.0		ug/L			12/05/24 00:47	1
tert-Butylbenzene	ND		1.0		ug/L			12/05/24 00:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			12/05/24 00:47	1
Ethyl tert-butyl ether	ND		5.0		ug/L			12/05/24 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 127*		*12/05/24 00:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*12/05/24 00:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/05/24 00:47*	*1*

Lab Sample ID: LCS 280-677418/5
Matrix: Water
Analysis Batch: 677418

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	50.0	49.4		ug/L		99	80 - 124
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	80 - 123
1,1,2,2-Tetrachloroethane	50.0	53.3		ug/L		107	74 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.2		ug/L		106	73 - 132
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1-Dichloroethane	50.0	54.5		ug/L		109	78 - 121
1,1-Dichloroethene	50.0	52.5		ug/L		105	77 - 121
1,1-Dichloropropene	50.0	52.4		ug/L		105	77 - 123
1,2,3-Trichlorobenzene	50.0	43.6		ug/L		87	65 - 129
1,2,3-Trichloropropane	50.0	51.2		ug/L		102	80 - 120
1,2,4-Trichlorobenzene	50.0	45.6		ug/L		91	74 - 126
1,2,4-Trimethylbenzene	50.0	52.6		ug/L		105	79 - 124
1,2-Dibromo-3-Chloropropane	50.0	46.9		ug/L		94	73 - 128
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	53.7		ug/L		107	71 - 121
1,2-Dichloropropane	50.0	53.4		ug/L		107	78 - 120

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

Lab Sample ID: LCS 280-677418/5
Matrix: Water
Analysis Batch: 677418

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 122
1,3-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
1,3-Dichloropropane	50.0	50.5		ug/L		101	77 - 122
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	80 - 120
1,4-Dioxane	1000	1040		ug/L		104	46 - 140
2,2-Dichloropropane	50.0	54.1		ug/L		108	75 - 131
2-Butanone (MEK)	200	197		ug/L		98	58 - 135
o-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120
2-Hexanone	200	194		ug/L		97	62 - 137
Butyl alcohol, tert-	500	516		ug/L		103	54 - 140
p-Chlorotoluene	50.0	52.0		ug/L		104	80 - 120
p-Cymene	50.0	53.0		ug/L		106	80 - 122
4-Methyl-2-pentanone (MIBK)	200	200		ug/L		100	66 - 135
Acetone	200	213		ug/L		106	61 - 134
Acrolein	494	508		ug/L		103	31 - 174
Acrylonitrile	500	510		ug/L		102	70 - 126
Benzene	50.0	52.3		ug/L		105	80 - 120
Bromobenzene	50.0	51.2		ug/L		102	80 - 120
Bromoform	50.0	44.8		ug/L		90	79 - 138
Bromomethane	50.0	49.1		ug/L		98	29 - 148
Carbon disulfide	50.0	51.7		ug/L		103	70 - 121
Carbon tetrachloride	50.0	49.8		ug/L		100	79 - 127
Chlorobenzene	50.0	49.1		ug/L		98	80 - 120
Bromochloromethane	50.0	51.3		ug/L		103	80 - 123
Dibromochloromethane	50.0	48.5		ug/L		97	80 - 125
Chloroethane	50.0	44.8		ug/L		90	56 - 141
Chloroform	50.0	52.0		ug/L		104	80 - 120
Chloromethane	50.0	43.2		ug/L		86	56 - 133
cis-1,2-Dichloroethene	50.0	53.1		ug/L		106	80 - 120
Cyclohexane	50.0	50.8		ug/L		102	68 - 125
Dibromomethane	50.0	52.6		ug/L		105	80 - 120
Bromodichloromethane	50.0	51.9		ug/L		104	80 - 123
Dichlorodifluoromethane	50.0	45.9		ug/L		92	47 - 135
Dichlorofluoromethane	50.0	48.4		ug/L		97	63 - 135
Ethyl ether	50.0	52.3		ug/L		105	68 - 132
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120
1,2-Dibromoethane (EDB)	50.0	49.9		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	45.6		ug/L		91	73 - 128
Hexane	50.0	51.7		ug/L		103	55 - 143
Iodomethane	50.0	50.3		ug/L		101	43 - 139
Isobutanol	1250	1240		ug/L		99	46 - 146
Isopropylbenzene	50.0	52.8		ug/L		106	78 - 122
Methyl acetate	100	99.4		ug/L		99	59 - 136
Methyl tert-butyl ether	50.0	52.5		ug/L		105	80 - 120
Methylcyclohexane	50.0	52.4		ug/L		105	64 - 130
Methylene Chloride	50.0	49.7		ug/L		99	78 - 120
m-Xylene & p-Xylene	50.0	49.4		ug/L		99	80 - 120
Naphthalene	50.0	44.7		ug/L		89	60 - 124
n-Butylbenzene	50.0	53.7		ug/L		107	59 - 140

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

Lab Sample ID: LCS 280-677418/5
Matrix: Water
Analysis Batch: 677418

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	50.0	51.7		ug/L		103	80 - 123
o-Xylene	50.0	50.1		ug/L		100	80 - 120
sec-Butylbenzene	50.0	51.4		ug/L		103	80 - 123
Tetrachloroethene	50.0	47.8		ug/L		96	80 - 121
Tetrahydrofuran	100	98.2		ug/L		98	62 - 130
Toluene	50.0	51.7		ug/L		103	80 - 120
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	79 - 121
trans-1,3-Dichloropropene	50.0	51.6		ug/L		103	80 - 123
trans-1,4-Dichloro-2-butene	50.0	50.2		ug/L		100	51 - 138
Trichloroethene	50.0	50.3		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	50.3		ug/L		101	54 - 144
Vinyl acetate	100	123		ug/L		123	55 - 161
Vinyl chloride	50.0	48.8		ug/L		98	67 - 127
cis-1,3-Dichloropropene	50.0	51.3		ug/L		103	76 - 129
Styrene	50.0	49.9		ug/L		100	80 - 120
tert-Butylbenzene	50.0	51.9		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCS 280-677418/7
Matrix: Water
Analysis Batch: 677418

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trichlorobenzene	25.0	22.1		ug/L		88	50 - 149
Acetonitrile	250	235		ug/L		94	23 - 155
Ethyl acetate	50.0	46.9		ug/L		94	35 - 149
Isopropyl ether	25.0	25.5		ug/L		102	63 - 128
Methacrylonitrile	250	253		ug/L		101	42 - 142
Butyl alcohol, n-	625	594		ug/L		95	10 - 178
Tert-amyl methyl ether	25.0	26.8		ug/L		107	53 - 135
Ethyl tert-butyl ether	25.0	25.0		ug/L		100	53 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCSD 280-677418/6
Matrix: Water
Analysis Batch: 677418

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	50.0	47.1		ug/L		94	80 - 124	5	20
1,1,1-Trichloroethane	50.0	49.3		ug/L		99	80 - 123	8	20

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

Lab Sample ID: LCSD 280-677418/6
Matrix: Water
Analysis Batch: 677418

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
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/L		106	74 - 123	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.4		ug/L		87	73 - 132	20	23
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	80 - 120	3	20
1,1-Dichloroethane	50.0	50.7		ug/L		101	78 - 121	7	20
1,1-Dichloroethene	50.0	48.6		ug/L		97	77 - 121	8	21
1,1-Dichloropropene	50.0	49.7		ug/L		99	77 - 123	5	20
1,2,3-Trichlorobenzene	50.0	33.6	*1	ug/L		67	65 - 129	26	20
1,2,3-Trichloropropane	50.0	51.3		ug/L		103	80 - 120	0	20
1,2,4-Trichlorobenzene	50.0	39.6		ug/L		79	74 - 126	14	20
1,2,4-Trimethylbenzene	50.0	50.9		ug/L		102	79 - 124	3	20
1,2-Dibromo-3-Chloropropane	50.0	45.8		ug/L		92	73 - 128	2	21
1,2-Dichlorobenzene	50.0	47.4		ug/L		95	80 - 120	4	20
1,2-Dichloroethane	50.0	52.1		ug/L		104	71 - 121	3	20
1,2-Dichloropropane	50.0	50.2		ug/L		100	78 - 120	6	20
1,3,5-Trimethylbenzene	50.0	50.7		ug/L		101	80 - 122	3	20
1,3-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120	3	20
1,3-Dichloropropane	50.0	49.5		ug/L		99	77 - 122	2	20
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120	4	20
1,4-Dioxane	1000	1080		ug/L		108	46 - 140	4	24
2,2-Dichloropropane	50.0	51.6		ug/L		103	75 - 131	5	22
2-Butanone (MEK)	200	210		ug/L		105	58 - 135	7	20
o-Chlorotoluene	50.0	48.6		ug/L		97	80 - 120	4	20
2-Hexanone	200	203		ug/L		102	62 - 137	5	21
Butyl alcohol, tert-	500	577		ug/L		115	54 - 140	11	29
p-Chlorotoluene	50.0	50.5		ug/L		101	80 - 120	3	20
p-Cymene	50.0	50.8		ug/L		102	80 - 122	4	20
4-Methyl-2-pentanone (MIBK)	200	205		ug/L		103	66 - 135	2	20
Acetone	200	219		ug/L		110	61 - 134	3	21
Acrolein	494	550		ug/L		111	31 - 174	8	23
Acrylonitrile	500	526		ug/L		105	70 - 126	3	20
Benzene	50.0	50.3		ug/L		101	80 - 120	4	20
Bromobenzene	50.0	48.9		ug/L		98	80 - 120	5	20
Bromoform	50.0	41.9		ug/L		84	79 - 138	7	20
Bromomethane	50.0	34.3		ug/L		69	29 - 148	35	40
Carbon disulfide	50.0	48.2		ug/L		96	70 - 121	7	20
Carbon tetrachloride	50.0	45.7		ug/L		91	79 - 127	9	20
Chlorobenzene	50.0	47.7		ug/L		95	80 - 120	3	20
Bromochloromethane	50.0	49.9		ug/L		100	80 - 123	3	20
Dibromochloromethane	50.0	45.7		ug/L		91	80 - 125	6	20
Chloroethane	50.0	40.8		ug/L		82	56 - 141	9	30
Chloroform	50.0	50.4		ug/L		101	80 - 120	3	20
Chloromethane	50.0	38.7		ug/L		77	56 - 133	11	20
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	5	20
Cyclohexane	50.0	42.3		ug/L		85	68 - 125	18	32
Dibromomethane	50.0	50.8		ug/L		102	80 - 120	3	20
Bromodichloromethane	50.0	48.6		ug/L		97	80 - 123	7	20
Dichlorodifluoromethane	50.0	39.3		ug/L		79	47 - 135	16	21
Dichlorofluoromethane	50.0	44.9		ug/L		90	63 - 135	7	21

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

Lab Sample ID: LCSD 280-677418/6
Matrix: Water
Analysis Batch: 677418

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
Ethyl ether			50.0	50.7		ug/L		101	68 - 132	3	20
Ethylbenzene			50.0	47.8		ug/L		96	80 - 120	4	20
1,2-Dibromoethane (EDB)			50.0	48.9		ug/L		98	80 - 120	2	20
Hexachlorobutadiene			50.0	41.8		ug/L		84	73 - 128	9	20
Hexane			50.0	42.5		ug/L		85	55 - 143	19	23
Iodomethane			50.0	49.0		ug/L		98	43 - 139	3	38
Isobutanol			1250	1360		ug/L		109	46 - 146	10	30
Isopropylbenzene			50.0	50.9		ug/L		102	78 - 122	4	20
Methyl acetate			100	103		ug/L		103	59 - 136	3	20
Methyl tert-butyl ether			50.0	51.0		ug/L		102	80 - 120	3	20
Methylcyclohexane			50.0	42.9		ug/L		86	64 - 130	20	21
Methylene Chloride			50.0	48.5		ug/L		97	78 - 120	3	20
m-Xylene & p-Xylene			50.0	47.4		ug/L		95	80 - 120	4	20
Naphthalene			50.0	38.0		ug/L		76	60 - 124	16	21
n-Butylbenzene			50.0	50.8		ug/L		102	59 - 140	6	20
N-Propylbenzene			50.0	49.8		ug/L		100	80 - 123	4	20
o-Xylene			50.0	48.4		ug/L		97	80 - 120	3	20
sec-Butylbenzene			50.0	49.2		ug/L		98	80 - 123	4	20
Tetrachloroethene			50.0	45.5		ug/L		91	80 - 121	5	20
Tetrahydrofuran			100	103		ug/L		103	62 - 130	5	20
Toluene			50.0	49.4		ug/L		99	80 - 120	5	20
trans-1,2-Dichloroethene			50.0	50.6		ug/L		101	79 - 121	4	20
trans-1,3-Dichloropropene			50.0	50.0		ug/L		100	80 - 123	3	20
trans-1,4-Dichloro-2-butene			50.0	50.7		ug/L		101	51 - 138	1	24
Trichloroethene			50.0	47.1		ug/L		94	80 - 120	7	20
Trichlorofluoromethane			50.0	44.3		ug/L		89	54 - 144	13	28
Vinyl acetate			100	122		ug/L		122	55 - 161	1	23
Vinyl chloride			50.0	44.9		ug/L		90	67 - 127	9	25
cis-1,3-Dichloropropene			50.0	48.6		ug/L		97	76 - 129	5	20
Styrene			50.0	48.7		ug/L		97	80 - 120	2	20
tert-Butylbenzene			50.0	49.0		ug/L		98	80 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCSD 280-677418/8
Matrix: Water
Analysis Batch: 677418

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
1,3,5-Trichlorobenzene			25.0	22.4		ug/L		90	50 - 149	2	20
Acetonitrile			250	247		ug/L		99	23 - 155	5	20
Ethyl acetate			50.0	49.6		ug/L		99	35 - 149	6	20
Isopropyl ether			25.0	28.0		ug/L		112	63 - 128	9	20
Methacrylonitrile			250	269		ug/L		108	42 - 142	6	20
Butyl alcohol, n-			625	575		ug/L		92	10 - 178	3	20

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

Lab Sample ID: LCSD 280-677418/8
Matrix: Water
Analysis Batch: 677418

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
Tert-amyl methyl ether			25.0	27.9		ug/L		112	53 - 135	4	20
Ethyl tert-butyl ether			25.0	27.7		ug/L		111	53 - 137	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

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

Lab Sample ID: MB 280-677412/5
Matrix: Water
Analysis Batch: 677412

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			12/04/24 19:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*12/04/24 19:20*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*12/04/24 19:20*	*1*

Lab Sample ID: LCS 280-677412/1002
Matrix: Water
Analysis Batch: 677412

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride			1.00	1.19		ug/L		119	40 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
Dibromofluoromethane (Surr)	*102*		*77 - 120*

Lab Sample ID: LCSD 280-677412/3
Matrix: Water
Analysis Batch: 677412

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
Vinyl chloride			1.00	1.04		ug/L		104	40 - 144	14	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
Dibromofluoromethane (Surr)	*100*		*77 - 120*

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

Lab Sample ID: 280-200161-D-4 MS
Matrix: Water
Analysis Batch: 677412

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	2.5		1.00	3.55		ug/L		105	40 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*

Lab Sample ID: 280-200161-D-4 MSD
Matrix: Water
Analysis Batch: 677412

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	2.5		1.00	3.77		ug/L		127	40 - 144	6	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-676135/1-A
Matrix: Water
Analysis Batch: 676489

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	ND		0.20		mg/L		11/22/24 08:08	11/23/24 07:44	1
Iron, Dissolved	ND		0.060		mg/L		11/22/24 08:08	11/23/24 07:44	1
Magnesium, Dissolved	ND		0.050		mg/L		11/22/24 08:08	11/23/24 07:44	1
Potassium, Dissolved	ND		1.0		mg/L		11/22/24 08:08	11/23/24 07:44	1
Sodium, Dissolved	ND		1.0		mg/L		11/22/24 08:08	11/23/24 07:44	1

Lab Sample ID: LCS 280-676135/2-A
Matrix: Water
Analysis Batch: 676489

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	50.0	52.8		mg/L		106	90 - 111
Iron, Dissolved	10.0	10.8		mg/L		108	89 - 115
Magnesium, Dissolved	50.0	51.5		mg/L		103	90 - 113
Potassium, Dissolved	50.0	54.2		mg/L		108	89 - 114
Sodium, Dissolved	50.0	53.3		mg/L		107	90 - 115

Lab Sample ID: MB 280-676141/1-A
Matrix: Water
Analysis Batch: 676650

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/25/24 08:21	11/26/24 02:43	1

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

Lab Sample ID: LCS 280-676141/2-A
Matrix: Water
Analysis Batch: 676650

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cobalt, Total			1.00	1.02		mg/L		102	89 - 111		

Lab Sample ID: 280-199902-1 MS
Matrix: Water
Analysis Batch: 676650

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cobalt, Total	ND		1.00	1.00		mg/L		100	82 - 119		

Lab Sample ID: 280-199902-1 MSD
Matrix: Water
Analysis Batch: 676650

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt, Total	ND		1.00	1.02		mg/L		102	82 - 119	1	20

Lab Sample ID: MB 280-676757/1-A
Matrix: Water
Analysis Batch: 677669

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Total	ND		0.060		mg/L		12/02/24 08:19	12/06/24 06:04	1

Lab Sample ID: LCS 280-676757/2-A
Matrix: Water
Analysis Batch: 677669

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron, Total			10.0	10.7		mg/L		107	89 - 115		

Lab Sample ID: 280-199902-1 MS
Matrix: Water
Analysis Batch: 677669

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron, Total	0.58		10.0	11.4		mg/L		108	75 - 125		

Lab Sample ID: 280-199902-1 MSD
Matrix: Water
Analysis Batch: 677669

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron, Total	0.58		10.0	11.4		mg/L		108	75 - 125	0	20

Lab Sample ID: 280-199856-D-8-B MS
Matrix: Water
Analysis Batch: 676489

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 676135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium, Dissolved	490		50.0	529	4	mg/L		79	75 - 125		

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

Lab Sample ID: 280-199856-D-8-B MS
Matrix: Water
Analysis Batch: 676489

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 676135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron, Dissolved	2.0		10.0	12.7		mg/L		106	75 - 125
Magnesium, Dissolved	250		50.0	292	4	mg/L		91	75 - 125
Potassium, Dissolved	16		50.0	72.8		mg/L		115	76 - 125
Sodium, Dissolved	88		50.0	141		mg/L		106	75 - 125

Lab Sample ID: 280-199856-D-8-C MSD
Matrix: Water
Analysis Batch: 676489

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 676135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium, Dissolved	490		50.0	533	4	mg/L		88	75 - 125	1	20
Iron, Dissolved	2.0		10.0	12.7		mg/L		107	75 - 125	1	20
Magnesium, Dissolved	250		50.0	291	4	mg/L		90	75 - 125	0	20
Potassium, Dissolved	16		50.0	73.2		mg/L		115	76 - 125	1	20
Sodium, Dissolved	88		50.0	143		mg/L		110	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 280-676135/1-A
Matrix: Water
Analysis Batch: 676971

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/22/24 08:08	11/27/24 15:36	1

Lab Sample ID: LCS 280-676135/23-A
Matrix: Water
Analysis Batch: 676971

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0400	0.0416		mg/L		104	85 - 117

Lab Sample ID: MB 280-676141/1-A
Matrix: Water
Analysis Batch: 677389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:14	1
Arsenic, Total	ND		0.0050		mg/L		11/25/24 08:21	12/04/24 11:14	1
Barium, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:14	1
Beryllium, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:14	1
Cadmium, Total	ND		0.00030		mg/L		11/25/24 08:21	12/04/24 11:14	1
Chromium, Total	ND		0.0030		mg/L		11/25/24 08:21	12/04/24 11:14	1
Copper, Total	ND		0.0020		mg/L		11/25/24 08:21	12/04/24 11:14	1
Lead, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:14	1
Manganese, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:14	1
Nickel, Total	ND		0.0040		mg/L		11/25/24 08:21	12/04/24 11:14	1
Selenium, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:14	1
Silver, Total	ND		0.0020		mg/L		11/25/24 08:21	12/04/24 11:14	1
Thallium, Total	ND		0.0010		mg/L		11/25/24 08:21	12/04/24 11:14	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-676141/1-A
Matrix: Water
Analysis Batch: 677389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc, Total	ND		0.0050		mg/L		11/25/24 08:21	12/04/24 11:14	1

Lab Sample ID: MB 280-676141/1-A
Matrix: Water
Analysis Batch: 677422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium, Total	ND		0.0020		mg/L		11/25/24 08:21	12/04/24 15:51	1

Lab Sample ID: LCS 280-676141/25-A
Matrix: Water
Analysis Batch: 677389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	0.0400	0.0413		mg/L		103	85 - 115
Arsenic, Total	0.0400	0.0411		mg/L		103	85 - 117
Barium, Total	0.0400	0.0420		mg/L		105	85 - 118
Beryllium, Total	0.0400	0.0415		mg/L		104	80 - 125
Cadmium, Total	0.0400	0.0428		mg/L		107	85 - 115
Chromium, Total	0.0400	0.0419		mg/L		105	84 - 121
Copper, Total	0.0400	0.0416		mg/L		104	85 - 119
Lead, Total	0.0400	0.0415		mg/L		104	85 - 118
Manganese, Total	0.0400	0.0414		mg/L		104	85 - 117
Nickel, Total	0.0400	0.0413		mg/L		103	85 - 119
Selenium, Total	0.0400	0.0405		mg/L		101	77 - 122
Silver, Total	0.0400	0.0409		mg/L		102	85 - 115
Thallium, Total	0.0400	0.0413		mg/L		103	85 - 118
Vanadium, Total	0.0400	0.0392		mg/L		98	85 - 120
Zinc, Total	0.0400	0.0418		mg/L		105	83 - 122

Lab Sample ID: 280-199902-1 MS
Matrix: Water
Analysis Batch: 677389

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	0.0013		0.0400	0.0418		mg/L		101	80 - 111
Arsenic, Total	ND		0.0400	0.0417		mg/L		104	92 - 112
Barium, Total	0.0092		0.0400	0.0515		mg/L		106	92 - 117
Beryllium, Total	ND		0.0400	0.0415		mg/L		104	87 - 118
Cadmium, Total	ND		0.0400	0.0428		mg/L		107	91 - 114
Chromium, Total	ND		0.0400	0.0417		mg/L		103	91 - 114
Copper, Total	0.0048		0.0400	0.0467		mg/L		105	89 - 116
Lead, Total	ND		0.0400	0.0414		mg/L		104	95 - 116
Manganese, Total	0.032		0.0400	0.0749		mg/L		108	89 - 119
Nickel, Total	ND		0.0400	0.0447		mg/L		105	92 - 116
Selenium, Total	ND		0.0400	0.0391		mg/L		98	90 - 115
Silver, Total	ND		0.0400	0.0403		mg/L		101	93 - 118
Thallium, Total	ND		0.0400	0.0413		mg/L		103	94 - 115
Vanadium, Total	ND	^+	0.0400	0.0411	^+	mg/L		103	91 - 114

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-199902-1 MS
Matrix: Water
Analysis Batch: 677505

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc, Total	0.065		0.0400	0.105		mg/L		100	86 - 120

Lab Sample ID: 280-199902-1 MSD
Matrix: Water
Analysis Batch: 677389

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony, Total	0.0013		0.0400	0.0423		mg/L		102	80 - 111	1	20
Arsenic, Total	ND		0.0400	0.0406		mg/L		102	92 - 112	3	20
Barium, Total	0.0092		0.0400	0.0494		mg/L		101	92 - 117	4	20
Beryllium, Total	ND		0.0400	0.0424		mg/L		106	87 - 118	2	20
Cadmium, Total	ND		0.0400	0.0414		mg/L		103	91 - 114	3	20
Chromium, Total	ND		0.0400	0.0422		mg/L		104	91 - 114	1	20
Copper, Total	0.0048		0.0400	0.0469		mg/L		105	89 - 116	0	20
Lead, Total	ND		0.0400	0.0427		mg/L		107	95 - 116	3	20
Manganese, Total	0.032		0.0400	0.0746		mg/L		107	89 - 119	0	20
Nickel, Total	ND		0.0400	0.0437		mg/L		102	92 - 116	2	20
Selenium, Total	ND		0.0400	0.0400		mg/L		100	90 - 115	2	20
Silver, Total	ND		0.0400	0.0405		mg/L		101	93 - 118	1	20
Thallium, Total	ND		0.0400	0.0426		mg/L		107	94 - 115	3	20
Vanadium, Total	ND	^+	0.0400	0.0422	^+	mg/L		105	91 - 114	3	20

Lab Sample ID: 280-199902-1 MSD
Matrix: Water
Analysis Batch: 677422

Client Sample ID: OBWL-TD-241120
Prep Type: Total Recoverable
Prep Batch: 676141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc, Total	0.065		0.0400	0.106		mg/L		102	86 - 120	1	20

Lab Sample ID: 280-199902-1 MS
Matrix: Water
Analysis Batch: 676971

Client Sample ID: OBWL-TD-241120
Prep Type: Dissolved
Prep Batch: 676135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.029		0.0400	0.0702		mg/L		103	89 - 119

Lab Sample ID: 280-199902-1 MSD
Matrix: Water
Analysis Batch: 676971

Client Sample ID: OBWL-TD-241120
Prep Type: Dissolved
Prep Batch: 676135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Dissolved	0.029		0.0400	0.0691		mg/L		100	89 - 119	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-676616/6
Matrix: Water
Analysis Batch: 676616

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			11/26/24 16:35	1
Sulfate	ND		5.0		mg/L			11/26/24 16:35	1

Lab Sample ID: LCS 280-676616/4
Matrix: Water
Analysis Batch: 676616

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	100		mg/L		100	90 - 110		
Sulfate			100	101		mg/L		101	90 - 110		

Lab Sample ID: LCSD 280-676616/5
Matrix: Water
Analysis Batch: 676616

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
Chloride			100	101		mg/L		101	90 - 110	0	10
Sulfate			100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-676616/3
Matrix: Water
Analysis Batch: 676616

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.06		mg/L		101	50 - 150		
Sulfate			5.00	ND		mg/L		98	50 - 150		

Lab Sample ID: 280-199902-1 MS
Matrix: Water
Analysis Batch: 676616

Client Sample ID: OBWL-TD-241120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		50.0	53.1		mg/L		106	80 - 120		
Sulfate	25		50.0	77.7		mg/L		106	80 - 120		

Lab Sample ID: 280-199902-1 MSD
Matrix: Water
Analysis Batch: 676616

Client Sample ID: OBWL-TD-241120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	53.6		mg/L		107	80 - 120	1	20
Sulfate	25		50.0	78.3		mg/L		108	80 - 120	1	20

Lab Sample ID: 280-199902-1 DU
Matrix: Water
Analysis Batch: 676616

Client Sample ID: OBWL-TD-241120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	ND			ND		mg/L				NC	15
Sulfate	25			24.5		mg/L				0.09	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-677703/59
Matrix: Water
Analysis Batch: 677703

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.030		mg/L			12/06/24 13:31	1

Lab Sample ID: LCS 280-677703/60
Matrix: Water
Analysis Batch: 677703

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)			2.51	2.58		mg/L		103	90 - 110		

Lab Sample ID: 280-199898-D-3 MS
Matrix: Water
Analysis Batch: 677703

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)	ND		1.00	1.06		mg/L		106	90 - 110		

Lab Sample ID: 280-199898-D-3 MSD
Matrix: Water
Analysis Batch: 677703

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	ND		1.00	1.07		mg/L		107	90 - 110	1	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-676911/98
Matrix: Water
Analysis Batch: 676911

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.050		mg/L			11/27/24 14:14	1

Lab Sample ID: LCS 280-676911/96
Matrix: Water
Analysis Batch: 676911

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate/Nitrite			1.00	1.02		mg/L		102	90 - 110		

Lab Sample ID: LCSD 280-676911/97
Matrix: Water
Analysis Batch: 676911

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
Nitrate/Nitrite			1.00	1.03		mg/L		103	90 - 110	8	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-199898-D-3 MS
Matrix: Water
Analysis Batch: 676911

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate/Nitrite	5.9	F1	4.00	10.4	F1	mg/L		112	90 - 110

Lab Sample ID: 280-199898-D-3 MSD
Matrix: Water
Analysis Batch: 676911

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate/Nitrite	5.9	F1	4.00	10.5	F1	mg/L		115	90 - 110	1	10

Method: 410.4 - COD

Lab Sample ID: MB 280-676609/4
Matrix: Water
Analysis Batch: 676609

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		10		mg/L			11/26/24 09:02	1

Lab Sample ID: LCS 280-676609/3
Matrix: Water
Analysis Batch: 676609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	100	99.4		mg/L		99	90 - 110

Lab Sample ID: 280-199911-A-1 MS
Matrix: Water
Analysis Batch: 676609

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand (COD)	17		50.0	62.3		mg/L		91	90 - 110

Lab Sample ID: 280-199911-A-1 MSD
Matrix: Water
Analysis Batch: 676609

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	17		50.0	61.9		mg/L		90	90 - 110	1	11

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-676461/34
Matrix: Water
Analysis Batch: 676461

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		10		mg/L			11/22/24 20:44	1
Alkalinity, Bicarbonate (As CaCO3)	ND		10		mg/L			11/22/24 20:44	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 280-676461/32
Matrix: Water
Analysis Batch: 676461

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity, Total (As CaCO3)			200	188		mg/L		94	89 - 110		

Lab Sample ID: LCSD 280-676461/33
Matrix: Water
Analysis Batch: 676461

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
Alkalinity, Total (As CaCO3)			200	188		mg/L		94	89 - 110	0	10

Lab Sample ID: 280-199896-F-3 DU
Matrix: Water
Analysis Batch: 676461

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total (As CaCO3)	180			181		mg/L				0.5	10
Alkalinity, Bicarbonate (As CaCO3)	180			181		mg/L				0.5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-676636/1
Matrix: Water
Analysis Batch: 676636

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0			mg/L			11/26/24 09:55	1

Lab Sample ID: LCS 280-676636/2
Matrix: Water
Analysis Batch: 676636

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)			503	493		mg/L		98	88 - 114		

Lab Sample ID: 280-199898-A-2 DU
Matrix: Water
Analysis Batch: 676636

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	ND			ND		mg/L				NC	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-676787/1
Matrix: Water
Analysis Batch: 676787

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0			mg/L			11/27/24 08:45	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 280-676787/2
Matrix: Water
Analysis Batch: 676787

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	501	482		mg/L		96	79 - 114

Lab Sample ID: 280-199965-A-2 DU
Matrix: Water
Analysis Batch: 676787

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	64		68.0		mg/L		6	10

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-677527/68
Matrix: Water
Analysis Batch: 677527

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/05/24 06:49	1

Lab Sample ID: LCS 280-677527/67
Matrix: Water
Analysis Batch: 677527

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	25.0	24.5		mg/L		98	88 - 112

Lab Sample ID: 280-199892-A-1 MS
Matrix: Water
Analysis Batch: 677527

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Average	5.7		25.0	30.4		mg/L		99	88 - 112

Lab Sample ID: 280-199892-A-1 MSD
Matrix: Water
Analysis Batch: 677527

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	5.7		25.0	30.6		mg/L		99	88 - 112	0	15

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-676185/4
Matrix: Water
Analysis Batch: 676185

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: SCB 280-676185/1
Matrix: Water
Analysis Batch: 676185

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

Analyte	SCB Result	SCB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: USB 280-676185/2
Matrix: Water
Analysis Batch: 676185

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: LCS 280-676185/3
Matrix: Water
Analysis Batch: 676185

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	192		mg/L		97	85 - 115		

Lab Sample ID: LCSD 280-676185/15
Matrix: Water
Analysis Batch: 676185

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
Biochemical Oxygen Demand			198	189		mg/L		95	85 - 115	2	20

Lab Sample ID: 280-199902-1 DU
Matrix: Water
Analysis Batch: 676185

Client Sample ID: OBWL-TD-241120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	ND			ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 677221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	8260D	
MB 280-677221/9	Method Blank	Total/NA	Water	8260D	
LCS 280-677221/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-677221/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-677221/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-677221/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 677412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	8260D SIM	
MB 280-677412/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 280-677412/1002	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 280-677412/3	Lab Control Sample Dup	Total/NA	Water	8260D SIM	
280-200161-D-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
280-200161-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 677418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-2	TRIP BLANK	Total/NA	Water	8260D	
MB 280-677418/10	Method Blank	Total/NA	Water	8260D	
LCS 280-677418/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-677418/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-677418/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-677418/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 676135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Dissolved	Water	3005A	
MB 280-676135/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-676135/23-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-676135/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199856-D-8-B MS	Matrix Spike	Dissolved	Water	3005A	
280-199856-D-8-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
280-199902-1 MS	OBWL-TD-241120	Dissolved	Water	3005A	
280-199902-1 MSD	OBWL-TD-241120	Dissolved	Water	3005A	

Prep Batch: 676141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total Recoverable	Water	3005A	
280-199902-1	OBWL-TD-241120	Total Recoverable	Water	3005A	
MB 280-676141/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-676141/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-676141/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199902-1 MS	OBWL-TD-241120	Total Recoverable	Water	3005A	
280-199902-1 MS	OBWL-TD-241120	Total Recoverable	Water	3005A	
280-199902-1 MSD	OBWL-TD-241120	Total Recoverable	Water	3005A	
280-199902-1 MSD	OBWL-TD-241120	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 676489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Dissolved	Water	6010D	676135
MB 280-676135/1-A	Method Blank	Total Recoverable	Water	6010D	676135
LCS 280-676135/2-A	Lab Control Sample	Total Recoverable	Water	6010D	676135
280-199856-D-8-B MS	Matrix Spike	Dissolved	Water	6010D	676135
280-199856-D-8-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	676135

Analysis Batch: 676650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total Recoverable	Water	6010D	676141
MB 280-676141/1-A	Method Blank	Total Recoverable	Water	6010D	676141
LCS 280-676141/2-A	Lab Control Sample	Total Recoverable	Water	6010D	676141
280-199902-1 MS	OBWL-TD-241120	Total Recoverable	Water	6010D	676141
280-199902-1 MSD	OBWL-TD-241120	Total Recoverable	Water	6010D	676141

Prep Batch: 676757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total Recoverable	Water	3005A	
MB 280-676757/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-676757/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199902-1 MS	OBWL-TD-241120	Total Recoverable	Water	3005A	
280-199902-1 MSD	OBWL-TD-241120	Total Recoverable	Water	3005A	

Analysis Batch: 676971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Dissolved	Water	6020B	676135
MB 280-676135/1-A	Method Blank	Total Recoverable	Water	6020B	676135
LCS 280-676135/23-A	Lab Control Sample	Total Recoverable	Water	6020B	676135
280-199902-1 MS	OBWL-TD-241120	Dissolved	Water	6020B	676135
280-199902-1 MSD	OBWL-TD-241120	Dissolved	Water	6020B	676135

Analysis Batch: 677389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total Recoverable	Water	6020B	676141
MB 280-676141/1-A	Method Blank	Total Recoverable	Water	6020B	676141
LCS 280-676141/25-A	Lab Control Sample	Total Recoverable	Water	6020B	676141
280-199902-1 MS	OBWL-TD-241120	Total Recoverable	Water	6020B	676141
280-199902-1 MSD	OBWL-TD-241120	Total Recoverable	Water	6020B	676141

Analysis Batch: 677422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total Recoverable	Water	6020B	676141
MB 280-676141/1-A	Method Blank	Total Recoverable	Water	6020B	676141
280-199902-1 MSD	OBWL-TD-241120	Total Recoverable	Water	6020B	676141

Analysis Batch: 677505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1 MS	OBWL-TD-241120	Total Recoverable	Water	6020B	676141

Analysis Batch: 677669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total Recoverable	Water	6010D	676757

Metals (Continued)

Analysis Batch: 677669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-676757/1-A	Method Blank	Total Recoverable	Water	6010D	676757
LCS 280-676757/2-A	Lab Control Sample	Total Recoverable	Water	6010D	676757
280-199902-1 MS	OBWL-TD-241120	Total Recoverable	Water	6010D	676757
280-199902-1 MSD	OBWL-TD-241120	Total Recoverable	Water	6010D	676757

General Chemistry

Analysis Batch: 676157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	353.2	

Analysis Batch: 676185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	SM5210B	
MB 280-676185/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-676185/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-676185/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-676185/3	Lab Control Sample	Total/NA	Water	SM5210B	
LCSD 280-676185/15	Lab Control Sample Dup	Total/NA	Water	SM5210B	
280-199902-1 DU	OBWL-TD-241120	Total/NA	Water	SM5210B	

Analysis Batch: 676461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	SM 2320B	
MB 280-676461/34	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-676461/32	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-676461/33	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-199896-F-3 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 676609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	410.4	
MB 280-676609/4	Method Blank	Total/NA	Water	410.4	
LCS 280-676609/3	Lab Control Sample	Total/NA	Water	410.4	
280-199911-A-1 MS	Matrix Spike	Total/NA	Water	410.4	
280-199911-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 676616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	300.0	
MB 280-676616/6	Method Blank	Total/NA	Water	300.0	
LCS 280-676616/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-676616/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-676616/3	Lab Control Sample	Total/NA	Water	300.0	
280-199902-1 MS	OBWL-TD-241120	Total/NA	Water	300.0	
280-199902-1 MSD	OBWL-TD-241120	Total/NA	Water	300.0	
280-199902-1 DU	OBWL-TD-241120	Total/NA	Water	300.0	

Analysis Batch: 676636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 676636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-676636/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-676636/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-199898-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 676787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	SM 2540D	
MB 280-676787/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-676787/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-199965-A-2 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 676911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	353.2	
MB 280-676911/98	Method Blank	Total/NA	Water	353.2	
LCS 280-676911/96	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-676911/97	Lab Control Sample Dup	Total/NA	Water	353.2	
280-199898-D-3 MS	Matrix Spike	Total/NA	Water	353.2	
280-199898-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 677527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	SM 5310B	
MB 280-677527/68	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-677527/67	Lab Control Sample	Total/NA	Water	SM 5310B	
280-199892-A-1 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-199892-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Analysis Batch: 677703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	350.1	
MB 280-677703/59	Method Blank	Total/NA	Water	350.1	
LCS 280-677703/60	Lab Control Sample	Total/NA	Water	350.1	
280-199898-D-3 MS	Matrix Spike	Total/NA	Water	350.1	
280-199898-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 676925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199902-1	OBWL-TD-241120	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-199902-1
Project/Site: WA02|Olympic View Sanitary LF

Client Sample ID: OBWL-TD-241120
Lab Sample ID: 280-199902-1
Date Collected: 11/20/24 14:45
Matrix: Water
Date Received: 11/21/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	677221	12/03/24 22:19	ETB	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	677412	12/04/24 21:03	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	676135	11/22/24 08:08	SMK	EET DEN
Dissolved	Analysis	6010D		1			676489	11/23/24 09:39	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	676141	11/25/24 08:21	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			676650	11/26/24 03:52	NKC	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	676757	12/02/24 08:19	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			677669	12/06/24 07:13	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	676135	11/22/24 08:08	SMK	EET DEN
Dissolved	Analysis	6020B		1			676971	11/27/24 15:43	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	676141	11/25/24 08:21	SMK	EET DEN
Total Recoverable	Analysis	6020B		1			677389	12/04/24 11:49	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	676141	11/25/24 08:21	SMK	EET DEN
Total Recoverable	Analysis	6020B		1			677422	12/04/24 16:26	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	676616	11/26/24 19:52	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	677703	12/06/24 14:40	LBR	EET DEN
Total/NA	Analysis	353.2		1			676157	11/21/24 19:25	PS1	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	676911	11/27/24 14:27	AKF	EET DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	676609	11/26/24 09:02	MF	EET DEN
Total/NA	Analysis	SM 2320B		1			676461	11/22/24 21:19	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	676636	11/26/24 09:55	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	676787	11/27/24 08:45	MF	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	677527	12/05/24 12:11	GMW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	676185	11/22/24 08:00	MF	EET DEN
Total/NA	Analysis	Field Sampling		1			676925	11/20/24 15:45	P1C	EET DEN

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-199902-2
Date Collected: 11/20/24 00:00
Matrix: Water
Date Received: 11/21/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	677418	12/04/24 23:20	CCF	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

09 December 2024

Janice Collins
Eurofins - Test America - Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Olympic View Sanitary LF (OVSL) w/SCS Engineers (28002692 (280-199902-1))

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
24K0682	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager

Cert# 100006-012

24K0682

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-725730.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Analytical Resources, Inc		Accreditations Required (See note): State - Washington		Job #: 280-199902-1
Address: 4611 South 134th Place, Suite 100, ,	Due Date Requested: 12/11/2024			Preservation Codes: -
City: Tukwila	TAT Requested (days): N/A			
State, Zip: WA, 98168				
Phone: 206-695-6200(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Total Arsenic (ARI))/ Total Arsenic (ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
OBWL-TD-241120 (280-199902-1)	11/20/24	14:45 Pacific	G	Water			X	1	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11.25.24 15:00	Eurofins	[signature]	11/26/24 1015	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199902-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OBWL-TD-241120 (280-199902-1)	24K0682-01	Water	20-Nov-2024 14:45	26-Nov-2024 10:15

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199902-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:02

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers
Project Number: 28002692 (280-199902-1)
Work Order: 24K0682

Sample receipt

Samples as listed on the preceding page were received 26-Nov-2024 10:15 under ARI work order 24K0682. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Metals - EPA Method 6020B

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Analytical Resources, LLC
Analytical Chemists and Consultants

Printed: 11/27/2024 10:37:32AM

WORK ORDER

24K0682

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Eurofins - Test America - Denver
Project Manager: Shelly Fishel

Project: Olympic View Sanitary LF (OVSL) w/SCS Engine
Project Number: 28002692 (280-199902-1)

Report To:
Eurofins - Test America - Denver
Janice Collins
4955 Yarrow Street
Arvada, CO 80002
Phone: (303) 736-0100
Fax: (303) 431-7171

Invoice To:
Eurofins - Test America - Denver
Accounts Payable
343 W Main St
Leola, PA 17540
Phone :(303) 736-0100
Fax: (303) 431-7171

Date Due: 11-Dec-2024 18:00 (10 day TAT)

Received By: Matthew Daniel
Date Received: 26-Nov-2024 10:15

Logged In By: Sydni Acevedo
Date Logged In: 27-Nov-2024 10:33

Samples Received at: **2.7°C**

Intact, properly signed and dated custody seals attached to outside of cooler(s)	No	Custody papers included with the cooler	Yes
Custody papers properly filled out (ink, signed, analyses requested, etc)	Yes	Was a temperature blank included in the cooler	No
Was sufficient ice used (if appropriate)	Yes	All bottles sealed in individual plastic bags	Yes
All bottles arrived in good condition (unbroken)	Yes	All bottle labels complete and legible	Yes
Number of containers listed on COC match number received	Yes	Bottle labels and tags agree with COC	Yes
Correct bottles used for the requested analyses	Yes	All VOC vials free of air bubbles	No
Analyses/bottles require preservation (attach preservation sheet excluding VOC)	Yes	Sufficient amount of sample sent in each bottle	Yes
Sample split at ARI	No		

Preservation Confirmation

Container ID	Container Type	pH
24K0682-01 A	HDPE NM, 500 mL, 1:1 HNO3	<2 p

SA
Preservation Confirmed By

11/27/24
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins Denver Project Name: Olympic View Sanitary LF

COC No(s): NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: 24K0682 Tracking No: 0201 4230 6421 4441 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) Time 1015 2.7° Temp Gun ID#: 500970		
Was a temperature blank included in the cooler?	YES	NO
Were coolers received between 0°- 6° (°C)	YES	NO
Was sufficient ice used (if appropriate)?	NA YES	NO

Cooler Accepted by: MP Date: 11/26/24 Time: 1015

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block N/A Other:

Are any samples that were out of temperature compliance documented in LIMS?		YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: SA Date: 11/27/24 Time: 1033 Labels checked by: SA

***** Notify Project Manager of discrepancies or concerns *****

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199902-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:02

OBWL-TD-241120 (280-199902-1)
24K0682-01 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/20/2024 14:45
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 20:55

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0682-01 A 01
Preparation Batch: BML0033 — Sample Size: 100 mL
Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	1	0.00746	0.0400	0.635	ug/L	

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199902-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:02

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0033 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0033-BLK1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:14						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0033-BS1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:17						
Arsenic	75a	4.74	0.00746	0.0400	ug/L	5.00		94.7	80-120			
Duplicate (BML0033-DUP1)			**Source: 24K0682-01**			Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 20:58						
Arsenic	75a	0.612	0.00746	0.0400	ug/L		0.635			3.69	20	
Matrix Spike (BML0033-MS1)			**Source: 24K0682-01**			Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 21:02						
Arsenic	75a	5.38	0.00746	0.0400	ug/L	5.00	0.635	95.0	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199902-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:02

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B UCT-KED in Water	
Arsenic-75a	WADOE,DoD-ELAP,ADEC,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199902-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:02

Notes and Definitions

D	The reported value is from a dilution
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

and Patrick Madej
PMadejCWM.com

Chain of Custody Record

eurofins | Environment Testing

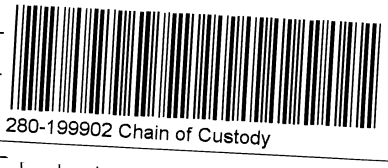
Client Information	Sampler: Carmen Tappero	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-124595-4071.1
Client Contact: Matt Frame	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page:
Company: Olympic View Transfer Station	PWSID:			Job #:

Address: 9300 Southwest Barney White Road	Due Date Requested:
City: Bremerton	TAT Requested (days):
State, Zip: WA, 98312	Compliance Project: Δ Yes Δ No
Phone: 206-276-4009	PO #:
Email: mframeC wm.com	WO #:
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692-Annual OBW-TB/L-INF App I/II -Dec
Site: Washington	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cl/SO4/Alks/TDS/NO3 (353.2-cad)	Ammonia/NOXT/TOC/COD	6010D/6020B- Dissolved Metals (FF) Yes FF	6010D/6020B- Total Metals	SM5210B- Biochemical Oxygen Demand (BOD)	SM2540D- Total Suspended Solids	8260C - VOCs (Buffalo)	8260C_SIM - Vinyl chloride (Buffalo)	LL Total Arsenic (direct sub to ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	D	N	N	A	A	D		
OBWL-TB-241120	11/20/24	1145	G	W	N	N	X	X	X	X	X	X	X	X	X		



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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: Carmen Tappero	Date/Time: 11/20/24 1545	Company: Aspect	Received by:	Date/Time: 11/21/24 0910	Company: EEDEN
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: 2.1, 2.2+2, IR Fabry

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL (OBWL-TD)

Site No.:

Sample Point: OBWL

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device:

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
14:45		1st 6.87	1st 169.6	9.1	10.1	8.1	899	2.6
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11/20/24	6.87	169.6	9.1	10.1	8.1	899	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: N/A Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

Grab Sample from Barney White Toe Drain

I certify that sampling procedures were in accordance with applicable EPA, State and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/20/24	Carmen Lappero	Carmen Lappero	Aspect
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy



280-199902 Waybill

Do Not Lift Using This Tag

Custody Seal

SIGNATURE

DATE

eurofins | Environment Testing TestAmerica

2617373

ORIGIN ID:PWTA

SHIP DATE: 20NOV24
ACTWGT: 45.55 LB
CAD: /SSFE2560
DIMS: 26x14x13 IN

TO SAMPLE RECEIVING
EUROFINS ENVIRON TESTING
4955 YARROW ST

ARVADA CO 80002-4517
(303) 736-0100
INV:
PO:
REF:
DEPT:

(US)

FedEx Express

J244024091002uv

TRK# 0667 8182 2608 8854

THU - 21 NOV 10:30A
PRIORITY OVERNIGHT

XA LAAA

AHS
80002
CO-US DEN

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199902-1

Login Number: 199902
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers and the COC.	False	No: Received Trip Blank(s) not listed on COC.
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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

Generated 12/16/2024 3:02:50 PM

JOB DESCRIPTION

WA02|Olympic View Sanitary LF - Leachate
Semiannual Leachate AppI/II - May Nov

JOB NUMBER

280-199988-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

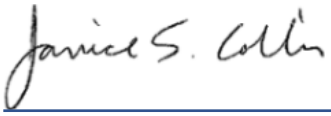
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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12/16/2024 3:02:50 PM

Authorized for release by
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(303)736-0100

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

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

Job Narrative
280-199988-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 11/22/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

Subcontract Work
Method Total Arsenic (ARI): This method was subcontracted to Analytical Resources, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
Method 8260D: In analytical batch 280-677221 for Method 8260, the preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: LP-LCD (280-199988-1). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260D: In analytical batch 280-677221 for Method 8260, the following sample was diluted due to the foamy nature of the sample matrix: LP-LCD (280-199988-1). Elevated reporting limits (RLs) are provided. Analysis at a lesser dilution would contaminate the instrument.

Method 8260D: For Method 8260, the following compounds were outside control limits (20%) in the continuing calibration verification (CCV) associated with batch 280-677221: Bromomethane, Iodomethane and trans-1,4-Dichloro-2-butene at -49.7%, -49.3%, and -31.5%, respectively. These compounds are considered poor performers and the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries are within limits; therefore, the data have been reported. The associated samples were non-detect for the affected analytes.

Method 8260D: For Method 8260, the continuing calibration verification (CCV) associated with batch 280-677221 recovered above the upper control limit (20%) for Vinyl acetate at 39.5%. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: LP-LCD (280-199988-1) and (CCV 280-677221/2).

Method 8260D: For Method 8260, insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 280-677221. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260D_SIM: Due to the high concentration of Vinyl chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 280-677041 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Job ID: 280-199988-1 (Continued) Eurofins Denver

Method 8260D_SIM: Reporting Limit - Estimated; Outside Calibration Range : The reporting limits provided for Acrylonitrile (0.07ug/L) and Vinyl chloride (0.02ug/L) fall below the laboratory's lowest calibration standard for Acrylonitrile (0.2ug/L) and Vinyl chloride (0.1ug/L). Results reported below the lowest calibration standard are estimated for the following samples:

Method 8260D_SIM: The method blank for 280-677041 contained Vinyl chloride above 1/2 the laboratory RL. None of the samples associated with this method blank contained the target compound; therefore, re-analysis of samples was not performed. LP-LCD (280-199988-1)

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

Metals
Method 6010D - Dissolved: The following sample was improperly preserved in the field: LP-LCD (280-199988-1). Nitric acid was added by the laboratory and the desired pH was acheived.

Method 6010D - Dissolved: The results reported for the following sample do not concur with results previously reported for this site for K: LP-LCD (280-199988-1). A bottle check was performed, and the result(s) confirmed.

Method 6010D - Total Recoverable: The following sample was improperly preserved in the field: LP-LCD (280-199988-1). Nitric acid was added by the laboratory and the desired pH was acheived.

Method 6020B - Dissolved: The following sample was improperly preserved in the field: LP-LCD (280-199988-1). Nitric acid was added by the laboratory and the desired pH was acheived.

Method 6020B - Total Recoverable: The following sample was improperly preserved in the field: LP-LCD (280-199988-1). Nitric acid was added by the laboratory and the desired pH was acheived.

Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-676328 and analytical batch 280-676970 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference, high targets and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

General Chemistry
Method SM5210B_BODCalc: The following sample was received outside of holding time: LP-LCD (280-199988-1).

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

Detection Summary

Client: Waste Management
Job ID: 280-199988-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Client Sample ID: LP-LCD
Lab Sample ID: 280-199988-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Total	0.013		0.0030		mg/L	1		6010D	Total Recoverable
Iron, Total	0.096		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	69		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	0.10		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	42		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	91		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	750		5.0		mg/L	5		6010D	Dissolved
Antimony, Total	0.0017		0.0010		mg/L	1		6020B	Total Recoverable
Arsenic, Total	0.018		0.0050		mg/L	1		6020B	Total Recoverable
Barium, Total	0.11		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium, Total	0.00044		0.00030		mg/L	1		6020B	Total Recoverable
Copper, Total	0.021		0.0020		mg/L	1		6020B	Total Recoverable
Lead, Total	0.0020		0.0010		mg/L	1		6020B	Total Recoverable
Manganese, Total	0.53		0.0010		mg/L	1		6020B	Total Recoverable
Nickel, Total	0.10		0.0040		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.0059		0.0020		mg/L	1		6020B	Total Recoverable
Zinc, Total	0.027		0.0050		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	0.57		0.0010		mg/L	1		6020B	Dissolved
Chloride	640		15		mg/L	5		300.0	Total/NA
Sulfate	140		25		mg/L	5		300.0	Total/NA
Ammonia (as N)	5.7		0.060		mg/L	2		350.1	Total/NA
Nitrate as N	2.6		0.050		mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	2.6		0.10		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand (COD)	170		20		mg/L	2		410.4	Total/NA
Alkalinity, Total	950		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	950		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	2300		10		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	54		2.0		mg/L	2		SM 5310B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-199988-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
6020B	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrate	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
410.4	COD	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Subcontract	Total Arsenic (ARI)	None	SC0056
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Sample Summary

Client: Waste Management
Job ID: 280-199988-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199988-1	LP-LCD	Water	11/19/24 11:30	11/22/24 09:10

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

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10

Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			12/02/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*12/02/24 17:47*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 120*		*12/02/24 17:47*	*1*

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

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10

Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			12/03/24 21:36	10
1,1,1-Trichloroethane	ND		10		ug/L			12/03/24 21:36	10
1,1,2,2-Tetrachloroethane	ND		10		ug/L			12/03/24 21:36	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		30		ug/L			12/03/24 21:36	10
1,1,2-Trichloroethane	ND		10		ug/L			12/03/24 21:36	10
1,1-Dichloroethane	ND		10		ug/L			12/03/24 21:36	10
1,1-Dichloroethene	ND		10		ug/L			12/03/24 21:36	10
1,1-Dichloropropene	ND		10		ug/L			12/03/24 21:36	10
1,2,3-Trichlorobenzene	ND		40		ug/L			12/03/24 21:36	10
1,2,3-Trichloropropane	ND		25		ug/L			12/03/24 21:36	10
1,2,4-Trichlorobenzene	ND		10		ug/L			12/03/24 21:36	10
1,2,4-Trimethylbenzene	ND		10		ug/L			12/03/24 21:36	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			12/03/24 21:36	10
1,2-Dichlorobenzene	ND		10		ug/L			12/03/24 21:36	10
1,2-Dichloroethane	ND		10		ug/L			12/03/24 21:36	10
1,2-Dichloroethene, Total	ND		10		ug/L			12/03/24 21:36	10
1,2-Dichloropropane	ND		10		ug/L			12/03/24 21:36	10
1,3,5-Trichlorobenzene	ND		50		ug/L			12/03/24 21:36	10
1,3,5-Trimethylbenzene	ND		10		ug/L			12/03/24 21:36	10
1,3-Dichlorobenzene	ND		10		ug/L			12/03/24 21:36	10
1,3-Dichloropropane	ND		10		ug/L			12/03/24 21:36	10
1,4-Dichlorobenzene	ND		10		ug/L			12/03/24 21:36	10
1,4-Dioxane	ND		400		ug/L			12/03/24 21:36	10
2,2-Dichloropropane	ND		10		ug/L			12/03/24 21:36	10
2-Butanone (MEK)	ND		100		ug/L			12/03/24 21:36	10
o-Chlorotoluene	ND		10		ug/L			12/03/24 21:36	10
2-Hexanone	ND		50		ug/L			12/03/24 21:36	10
Butyl alcohol, tert-	ND		100		ug/L			12/03/24 21:36	10
p-Chlorotoluene	ND		10		ug/L			12/03/24 21:36	10
p-Cymene	ND		10		ug/L			12/03/24 21:36	10
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/03/24 21:36	10
Acetone	ND		150		ug/L			12/03/24 21:36	10
Acetonitrile	ND		300		ug/L			12/03/24 21:36	10
Acrolein	ND		200		ug/L			12/03/24 21:36	10
Acrylonitrile	ND		200		ug/L			12/03/24 21:36	10
Benzene	ND		10		ug/L			12/03/24 21:36	10
Bromobenzene	ND		10		ug/L			12/03/24 21:36	10
Bromoform	ND		20		ug/L			12/03/24 21:36	10

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

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10

Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		50		ug/L			12/03/24 21:36	10
Carbon disulfide	ND		20		ug/L			12/03/24 21:36	10
Carbon tetrachloride	ND		10		ug/L			12/03/24 21:36	10
Chlorobenzene	ND		10		ug/L			12/03/24 21:36	10
Bromochloromethane	ND		10		ug/L			12/03/24 21:36	10
Dibromochloromethane	ND		10		ug/L			12/03/24 21:36	10
Chloroethane	ND		20		ug/L			12/03/24 21:36	10
Chloroform	ND		10		ug/L			12/03/24 21:36	10
Chloromethane	ND		20		ug/L			12/03/24 21:36	10
cis-1,2-Dichloroethene	ND		10		ug/L			12/03/24 21:36	10
Cyclohexane	ND		10		ug/L			12/03/24 21:36	10
Dibromomethane	ND		10		ug/L			12/03/24 21:36	10
Bromodichloromethane	ND		10		ug/L			12/03/24 21:36	10
Dichlorodifluoromethane	ND		20		ug/L			12/03/24 21:36	10
Dichlorofluoromethane	ND		20		ug/L			12/03/24 21:36	10
Ethyl acetate	ND		50		ug/L			12/03/24 21:36	10
Ethyl ether	ND		20		ug/L			12/03/24 21:36	10
Ethylbenzene	ND		10		ug/L			12/03/24 21:36	10
1,2-Dibromoethane (EDB)	ND		10		ug/L			12/03/24 21:36	10
Hexachlorobutadiene	ND		20		ug/L			12/03/24 21:36	10
Hexane	ND		20		ug/L			12/03/24 21:36	10
Iodomethane	ND		50		ug/L			12/03/24 21:36	10
Isobutanol	ND		1100		ug/L			12/03/24 21:36	10
Isopropyl ether	ND		100		ug/L			12/03/24 21:36	10
Isopropylbenzene	ND		10		ug/L			12/03/24 21:36	10
Methacrylonitrile	ND		150		ug/L			12/03/24 21:36	10
Methyl acetate	ND		50		ug/L			12/03/24 21:36	10
Methyl tert-butyl ether	ND		50		ug/L			12/03/24 21:36	10
Methylcyclohexane	ND		10		ug/L			12/03/24 21:36	10
Methylene Chloride	ND		20		ug/L			12/03/24 21:36	10
m-Xylene & p-Xylene	ND		20		ug/L			12/03/24 21:36	10
Naphthalene	ND		30		ug/L			12/03/24 21:36	10
Butyl alcohol, n-	ND		600		ug/L			12/03/24 21:36	10
n-Butylbenzene	ND		10		ug/L			12/03/24 21:36	10
N-Propylbenzene	ND		10		ug/L			12/03/24 21:36	10
o-Xylene	ND		10		ug/L			12/03/24 21:36	10
sec-Butylbenzene	ND		10		ug/L			12/03/24 21:36	10
Tetrachloroethene	ND		10		ug/L			12/03/24 21:36	10
Tetrahydrofuran	ND		70		ug/L			12/03/24 21:36	10
Toluene	ND		10		ug/L			12/03/24 21:36	10
trans-1,2-Dichloroethene	ND		10		ug/L			12/03/24 21:36	10
trans-1,3-Dichloropropene	ND		10		ug/L			12/03/24 21:36	10
trans-1,4-Dichloro-2-butene	ND		30		ug/L			12/03/24 21:36	10
Trichloroethene	ND		10		ug/L			12/03/24 21:36	10
Trichlorofluoromethane	ND		20		ug/L			12/03/24 21:36	10
Vinyl acetate	ND		30		ug/L			12/03/24 21:36	10
Vinyl chloride	ND		10		ug/L			12/03/24 21:36	10
cis-1,3-Dichloropropene	ND		10		ug/L			12/03/24 21:36	10
Styrene	ND		10		ug/L			12/03/24 21:36	10

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

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10
Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		10		ug/L			12/03/24 21:36	10
Tert-amyl methyl ether	ND		50		ug/L			12/03/24 21:36	10
Ethyl tert-butyl ether	ND		50		ug/L			12/03/24 21:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*		*12/03/24 21:36*	*10*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*12/03/24 21:36*	*10*
Toluene-d8 (Surr)	*95*		*80 - 125*		*12/03/24 21:36*	*10*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10
Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	**0.013**		0.0030		mg/L		11/25/24 15:00	11/27/24 17:28	1
Iron, Total	**0.096**		0.060		mg/L		11/25/24 15:00	11/27/24 17:28	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10
Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**69**		0.20		mg/L		11/25/24 15:00	11/28/24 06:11	1
Iron, Dissolved	**0.10**		0.060		mg/L		11/25/24 15:00	11/28/24 06:11	1
Magnesium, Dissolved	**42**		0.050		mg/L		11/25/24 15:00	11/28/24 06:11	1
Potassium, Dissolved	**91**		1.0		mg/L		11/25/24 15:00	11/28/24 06:11	1
Sodium, Dissolved	**750**		5.0		mg/L		11/25/24 15:00	12/02/24 21:20	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10
Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	**0.0017**		0.0010		mg/L		11/25/24 15:00	11/27/24 23:48	1
Arsenic, Total	**0.018**		0.0050		mg/L		11/25/24 15:00	11/27/24 23:48	1
Barium, Total	**0.11**		0.0010		mg/L		11/25/24 15:00	11/27/24 23:48	1
Beryllium, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 23:48	1
Cadmium, Total	**0.00044**		0.00030		mg/L		11/25/24 15:00	11/27/24 23:48	1
Chromium, Total	ND		0.0030		mg/L		11/25/24 15:00	11/27/24 23:48	1
Copper, Total	**0.021**		0.0020		mg/L		11/25/24 15:00	11/27/24 23:48	1
Lead, Total	**0.0020**		0.0010		mg/L		11/25/24 15:00	11/27/24 23:48	1
Manganese, Total	**0.53**		0.0010		mg/L		11/25/24 15:00	11/27/24 23:48	1
Nickel, Total	**0.10**		0.0040		mg/L		11/25/24 15:00	11/27/24 23:48	1
Selenium, Total	ND		0.0010		mg/L		11/25/24 15:00	12/11/24 16:56	1
Silver, Total	ND		0.0020		mg/L		11/25/24 15:00	11/27/24 23:48	1
Thallium, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 23:48	1
Vanadium, Total	**0.0059**		0.0020		mg/L		11/25/24 15:00	12/11/24 16:56	1
Zinc, Total	**0.027**		0.0050		mg/L		11/25/24 15:00	11/27/24 23:48	1

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Job ID: 280-199988-1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10

Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.57**		0.0010		mg/L		11/25/24 15:00	11/26/24 23:43	1

General Chemistry

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10

Lab Sample ID: 280-199988-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**640**		15		mg/L			11/28/24 01:12	5
Sulfate (EPA 300.0)	**140**		25		mg/L			11/28/24 01:12	5
Ammonia (as N) (EPA 350.1)	**5.7**		0.060		mg/L			12/06/24 15:56	2
Nitrate as N (EPA 353.2)	**2.6**		0.050		mg/L			11/24/24 19:29	1
Nitrate Nitrite as N (EPA 353.2)	**2.6**		0.10		mg/L			12/02/24 14:25	1
Chemical Oxygen Demand (COD) (EPA 410.4)	**170**		20		mg/L			12/03/24 08:36	2
Alkalinity, Total (SM 2320B)	**950**		10		mg/L			11/26/24 23:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**950**		10		mg/L			11/26/24 23:55	1
Total Dissolved Solids (TDS) (SM 2540C)	**2300**		10		mg/L			11/26/24 10:01	1
Total Organic Carbon - Average (SM 5310B)	**54**		2.0		mg/L			12/06/24 23:37	2
Biochemical Oxygen Demand (SM5210B)	ND	H H3	5.0		mg/L			11/22/24 13:22	1

Surrogate Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Job ID: 280-199988-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(80-125)
280-199988-1	LP-LCD	86	95	95
LCS 280-677221/4	Lab Control Sample	94	95	94
LCS 280-677221/6	Lab Control Sample	85	98	95
LCSD 280-677221/5	Lab Control Sample Dup	86	97	96
LCSD 280-677221/7	Lab Control Sample Dup	86	95	96
MB 280-677221/9	Method Blank	87	96	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	DBFM
Lab Sample ID	Client Sample ID	(70-127)	(77-120)
280-199988-1	LP-LCD	98	104
280-200074-I-6 MSD	Matrix Spike Duplicate		101
280-200074-K-6 MS	Matrix Spike		99
LCS 280-677041/1002	Lab Control Sample		101
LCSD 280-677041/3	Lab Control Sample Dup		101
MB 280-677041/5	Method Blank	96	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 280-677221/9
Matrix: Water
Analysis Batch: 677221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			12/03/24 19:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1-Dichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,1-Dichloroethene	ND		1.0		ug/L			12/03/24 19:06	1
1,1-Dichloropropene	ND		1.0		ug/L			12/03/24 19:06	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			12/03/24 19:06	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/03/24 19:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/03/24 19:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dichloroethane	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dichloropropane	ND		1.0		ug/L			12/03/24 19:06	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			12/03/24 19:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,3-Dichloropropane	ND		1.0		ug/L			12/03/24 19:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,4-Dioxane	ND		40		ug/L			12/03/24 19:06	1
2,2-Dichloropropane	ND		1.0		ug/L			12/03/24 19:06	1
2-Butanone (MEK)	ND		10		ug/L			12/03/24 19:06	1
o-Chlorotoluene	ND		1.0		ug/L			12/03/24 19:06	1
2-Hexanone	ND		5.0		ug/L			12/03/24 19:06	1
Butyl alcohol, tert-	ND		10		ug/L			12/03/24 19:06	1
p-Chlorotoluene	ND		1.0		ug/L			12/03/24 19:06	1
p-Cymene	ND		1.0		ug/L			12/03/24 19:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/03/24 19:06	1
Acetone	ND		15		ug/L			12/03/24 19:06	1
Acetonitrile	ND		30		ug/L			12/03/24 19:06	1
Acrolein	ND		20		ug/L			12/03/24 19:06	1
Acrylonitrile	ND		20		ug/L			12/03/24 19:06	1
Benzene	ND		1.0		ug/L			12/03/24 19:06	1
Bromobenzene	ND		1.0		ug/L			12/03/24 19:06	1
Bromoform	ND		2.0		ug/L			12/03/24 19:06	1
Bromomethane	ND		5.0		ug/L			12/03/24 19:06	1
Carbon disulfide	ND		2.0		ug/L			12/03/24 19:06	1
Carbon tetrachloride	ND		1.0		ug/L			12/03/24 19:06	1
Chlorobenzene	ND		1.0		ug/L			12/03/24 19:06	1
Bromochloromethane	ND		1.0		ug/L			12/03/24 19:06	1
Dibromochloromethane	ND		1.0		ug/L			12/03/24 19:06	1
Chloroethane	ND		2.0		ug/L			12/03/24 19:06	1
Chloroform	ND		1.0		ug/L			12/03/24 19:06	1
Chloromethane	ND		2.0		ug/L			12/03/24 19:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/03/24 19:06	1

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

Lab Sample ID: MB 280-677221/9
Matrix: Water
Analysis Batch: 677221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0		ug/L			12/03/24 19:06	1
Dibromomethane	ND		1.0		ug/L			12/03/24 19:06	1
Bromodichloromethane	ND		1.0		ug/L			12/03/24 19:06	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/03/24 19:06	1
Dichlorofluoromethane	ND		2.0		ug/L			12/03/24 19:06	1
Ethyl acetate	ND		5.0		ug/L			12/03/24 19:06	1
Ethyl ether	ND		2.0		ug/L			12/03/24 19:06	1
Ethylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/03/24 19:06	1
Hexachlorobutadiene	ND		2.0		ug/L			12/03/24 19:06	1
Hexane	ND		2.0		ug/L			12/03/24 19:06	1
Iodomethane	ND		5.0		ug/L			12/03/24 19:06	1
Isobutanol	ND		110		ug/L			12/03/24 19:06	1
Isopropyl ether	ND		10		ug/L			12/03/24 19:06	1
Isopropylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
Methacrylonitrile	ND		15		ug/L			12/03/24 19:06	1
Methyl acetate	ND		5.0		ug/L			12/03/24 19:06	1
Methyl tert-butyl ether	ND		5.0		ug/L			12/03/24 19:06	1
Methylcyclohexane	ND		1.0		ug/L			12/03/24 19:06	1
Methylene Chloride	ND		2.0		ug/L			12/03/24 19:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/03/24 19:06	1
Naphthalene	ND		3.0		ug/L			12/03/24 19:06	1
Butyl alcohol, n-	ND		60		ug/L			12/03/24 19:06	1
n-Butylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
N-Propylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
o-Xylene	ND		1.0		ug/L			12/03/24 19:06	1
sec-Butylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
Tetrachloroethene	ND		1.0		ug/L			12/03/24 19:06	1
Tetrahydrofuran	ND		7.0		ug/L			12/03/24 19:06	1
Toluene	ND		1.0		ug/L			12/03/24 19:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/03/24 19:06	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/03/24 19:06	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/03/24 19:06	1
Trichloroethene	ND		1.0		ug/L			12/03/24 19:06	1
Trichlorofluoromethane	ND		2.0		ug/L			12/03/24 19:06	1
Vinyl acetate	ND		3.0		ug/L			12/03/24 19:06	1
Vinyl chloride	ND		1.0		ug/L			12/03/24 19:06	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/03/24 19:06	1
Styrene	ND		1.0		ug/L			12/03/24 19:06	1
tert-Butylbenzene	ND		1.0		ug/L			12/03/24 19:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			12/03/24 19:06	1
Ethyl tert-butyl ether	ND		5.0		ug/L			12/03/24 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*12/03/24 19:06*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*12/03/24 19:06*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*12/03/24 19:06*	*1*

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

Lab Sample ID: LCS 280-677221/4
Matrix: Water
Analysis Batch: 677221

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	50.0	51.2		ug/L		102	80 - 124
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	80 - 123
1,1,2,2-Tetrachloroethane	50.0	47.1		ug/L		94	74 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.2		ug/L		108	73 - 132
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	49.3		ug/L		99	78 - 121
1,1-Dichloroethene	50.0	49.1		ug/L		98	77 - 121
1,1-Dichloropropene	50.0	49.8		ug/L		100	77 - 123
1,2,3-Trichlorobenzene	50.0	53.2		ug/L		106	65 - 129
1,2,3-Trichloropropane	50.0	47.5		ug/L		95	80 - 120
1,2,4-Trichlorobenzene	50.0	52.8		ug/L		106	74 - 126
1,2,4-Trimethylbenzene	50.0	48.3		ug/L		97	79 - 124
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/L		106	73 - 128
1,2-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	43.2		ug/L		86	71 - 121
1,2-Dichloropropane	50.0	50.1		ug/L		100	78 - 120
1,3,5-Trimethylbenzene	50.0	48.5		ug/L		97	80 - 122
1,3-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120
1,3-Dichloropropane	50.0	47.4		ug/L		95	77 - 122
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120
1,4-Dioxane	1000	1120		ug/L		112	46 - 140
2,2-Dichloropropane	50.0	52.1		ug/L		104	75 - 131
2-Butanone (MEK)	200	202		ug/L		101	58 - 135
o-Chlorotoluene	50.0	48.9		ug/L		98	80 - 120
2-Hexanone	200	189		ug/L		95	62 - 137
Butyl alcohol, tert-	500	576		ug/L		115	54 - 140
p-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120
p-Cymene	50.0	49.8		ug/L		100	80 - 122
4-Methyl-2-pentanone (MIBK)	200	203		ug/L		101	66 - 135
Acetone	200	185		ug/L		92	61 - 134
Acrolein	494	486		ug/L		98	31 - 174
Acrylonitrile	500	498		ug/L		100	70 - 126
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromobenzene	50.0	48.3		ug/L		97	80 - 120
Bromoform	50.0	55.4		ug/L		111	79 - 138
Bromomethane	50.0	25.1		ug/L		50	29 - 148
Carbon disulfide	50.0	49.4		ug/L		99	70 - 121
Carbon tetrachloride	50.0	53.1		ug/L		106	79 - 127
Chlorobenzene	50.0	47.6		ug/L		95	80 - 120
Bromochloromethane	50.0	49.8		ug/L		100	80 - 123
Dibromochloromethane	50.0	51.8		ug/L		104	80 - 125
Chloroethane	50.0	51.6		ug/L		103	56 - 141
Chloroform	50.0	48.7		ug/L		97	80 - 120
Chloromethane	50.0	45.0		ug/L		90	56 - 133
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120
Cyclohexane	50.0	48.5		ug/L		97	68 - 125
Dibromomethane	50.0	49.0		ug/L		98	80 - 120
Bromodichloromethane	50.0	49.2		ug/L		98	80 - 123

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

Lab Sample ID: LCS 280-677221/4
Matrix: Water
Analysis Batch: 677221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	50.0	49.8		ug/L		100	47 - 135
Dichlorofluoromethane	50.0	48.5		ug/L		97	63 - 135
Ethyl ether	50.0	49.3		ug/L		99	68 - 132
Ethylbenzene	50.0	48.8		ug/L		98	80 - 120
1,2-Dibromoethane (EDB)	50.0	46.1		ug/L		92	80 - 120
Hexachlorobutadiene	50.0	50.3		ug/L		101	73 - 128
Hexane	50.0	44.4		ug/L		89	55 - 143
Iodomethane	50.0	25.3		ug/L		51	43 - 139
Isobutanol	1250	1240		ug/L		99	46 - 146
Isopropylbenzene	50.0	48.3		ug/L		97	78 - 122
Methyl acetate	100	92.5		ug/L		93	59 - 136
Methyl tert-butyl ether	50.0	50.2		ug/L		100	80 - 120
Methylcyclohexane	50.0	48.3		ug/L		97	64 - 130
Methylene Chloride	50.0	47.2		ug/L		94	78 - 120
m-Xylene & p-Xylene	50.0	47.1		ug/L		94	80 - 120
Naphthalene	50.0	54.0		ug/L		108	60 - 124
n-Butylbenzene	50.0	47.6		ug/L		95	59 - 140
N-Propylbenzene	50.0	48.4		ug/L		97	80 - 123
o-Xylene	50.0	48.8		ug/L		98	80 - 120
sec-Butylbenzene	50.0	49.9		ug/L		100	80 - 123
Tetrachloroethene	50.0	49.7		ug/L		99	80 - 121
Tetrahydrofuran	100	100		ug/L		100	62 - 130
Toluene	50.0	50.9		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	79 - 121
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	80 - 123
trans-1,4-Dichloro-2-butene	50.0	34.2		ug/L		68	51 - 138
Trichloroethene	50.0	51.8		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	52.0		ug/L		104	54 - 144
Vinyl acetate	100	140		ug/L		140	55 - 161
Vinyl chloride	50.0	52.1		ug/L		104	67 - 127
cis-1,3-Dichloropropene	50.0	47.4		ug/L		95	76 - 129
Styrene	50.0	50.0		ug/L		100	80 - 120
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Toluene-d8 (Surr)	*94*		*80 - 125*

Lab Sample ID: LCS 280-677221/6
Matrix: Water
Analysis Batch: 677221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trichlorobenzene	25.0	24.3		ug/L		97	50 - 149
Acetonitrile	250	242		ug/L		97	23 - 155
Ethyl acetate	50.0	48.5		ug/L		97	35 - 149
Isopropyl ether	25.0	24.8		ug/L		99	63 - 128

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

Lab Sample ID: LCS 280-677221/6
Matrix: Water
Analysis Batch: 677221

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methacrylonitrile			250	242		ug/L		97	42 - 142		
Butyl alcohol, n-			625	665		ug/L		106	10 - 178		
Tert-amyl methyl ether			25.0	25.1		ug/L		100	53 - 135		
Ethyl tert-butyl ether			25.0	24.3		ug/L		97	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Toluene-d8 (Surr)	*95*		*80 - 125*

Lab Sample ID: LCSD 280-677221/5
Matrix: Water
Analysis Batch: 677221

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			50.0	51.4		ug/L		103	80 - 124	0	20
1,1,1-Trichloroethane			50.0	49.9		ug/L		100	80 - 123	4	20
1,1,2,2-Tetrachloroethane			50.0	48.4		ug/L		97	74 - 123	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.9		ug/L		100	73 - 132	8	23
1,1,2-Trichloroethane			50.0	50.3		ug/L		101	80 - 120	2	20
1,1-Dichloroethane			50.0	47.8		ug/L		96	78 - 121	3	20
1,1-Dichloroethene			50.0	47.2		ug/L		94	77 - 121	4	21
1,1-Dichloropropene			50.0	47.4		ug/L		95	77 - 123	5	20
1,2,3-Trichlorobenzene			50.0	53.1		ug/L		106	65 - 129	0	20
1,2,3-Trichloropropane			50.0	49.2		ug/L		98	80 - 120	3	20
1,2,4-Trichlorobenzene			50.0	53.5		ug/L		107	74 - 126	1	20
1,2,4-Trimethylbenzene			50.0	47.7		ug/L		95	79 - 124	1	20
1,2-Dibromo-3-Chloropropane			50.0	55.6		ug/L		111	73 - 128	5	21
1,2-Dichlorobenzene			50.0	47.1		ug/L		94	80 - 120	1	20
1,2-Dichloroethane			50.0	42.3		ug/L		85	71 - 121	2	20
1,2-Dichloropropane			50.0	48.6		ug/L		97	78 - 120	3	20
1,3,5-Trimethylbenzene			50.0	47.9		ug/L		96	80 - 122	1	20
1,3-Dichlorobenzene			50.0	46.5		ug/L		93	80 - 120	2	20
1,3-Dichloropropane			50.0	47.5		ug/L		95	77 - 122	0	20
1,4-Dichlorobenzene			50.0	47.0		ug/L		94	80 - 120	0	20
1,4-Dioxane			1000	1130		ug/L		113	46 - 140	1	24
2,2-Dichloropropane			50.0	49.1		ug/L		98	75 - 131	6	22
2-Butanone (MEK)			200	205		ug/L		102	58 - 135	1	20
o-Chlorotoluene			50.0	47.7		ug/L		95	80 - 120	3	20
2-Hexanone			200	198		ug/L		99	62 - 137	4	21
Butyl alcohol, tert-			500	602		ug/L		120	54 - 140	4	29
p-Chlorotoluene			50.0	48.8		ug/L		98	80 - 120	0	20
p-Cymene			50.0	49.0		ug/L		98	80 - 122	2	20
4-Methyl-2-pentanone (MIBK)			200	207		ug/L		103	66 - 135	2	20
Acetone			200	187		ug/L		94	61 - 134	1	21
Acrolein			494	455		ug/L		92	31 - 174	6	23
Acrylonitrile			500	494		ug/L		99	70 - 126	1	20
Benzene			50.0	49.4		ug/L		99	80 - 120	2	20

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

Lab Sample ID: LCSD 280-677221/5
Matrix: Water
Analysis Batch: 677221

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromobenzene			50.0	47.2		ug/L		94	80 - 120	2	20
Bromoform			50.0	56.0		ug/L		112	79 - 138	1	20
Bromomethane			50.0	27.3		ug/L		55	29 - 148	8	40
Carbon disulfide			50.0	46.5		ug/L		93	70 - 121	6	20
Carbon tetrachloride			50.0	51.6		ug/L		103	79 - 127	3	20
Chlorobenzene			50.0	46.5		ug/L		93	80 - 120	2	20
Bromochloromethane			50.0	48.1		ug/L		96	80 - 123	3	20
Dibromochloromethane			50.0	51.5		ug/L		103	80 - 125	0	20
Chloroethane			50.0	52.1		ug/L		104	56 - 141	1	30
Chloroform			50.0	47.4		ug/L		95	80 - 120	3	20
Chloromethane			50.0	44.4		ug/L		89	56 - 133	1	20
cis-1,2-Dichloroethene			50.0	49.8		ug/L		100	80 - 120	3	20
Cyclohexane			50.0	46.4		ug/L		93	68 - 125	4	32
Dibromomethane			50.0	45.8		ug/L		92	80 - 120	7	20
Bromodichloromethane			50.0	47.8		ug/L		96	80 - 123	3	20
Dichlorodifluoromethane			50.0	49.7		ug/L		99	47 - 135	0	21
Dichlorofluoromethane			50.0	49.1		ug/L		98	63 - 135	1	21
Ethyl ether			50.0	48.4		ug/L		97	68 - 132	2	20
Ethylbenzene			50.0	48.2		ug/L		96	80 - 120	1	20
1,2-Dibromoethane (EDB)			50.0	47.2		ug/L		94	80 - 120	2	20
Hexachlorobutadiene			50.0	47.9		ug/L		96	73 - 128	5	20
Hexane			50.0	40.2		ug/L		80	55 - 143	10	23
Iodomethane			50.0	24.6		ug/L		49	43 - 139	3	38
Isobutanol			1250	1320		ug/L		106	46 - 146	6	30
Isopropylbenzene			50.0	48.5		ug/L		97	78 - 122	0	20
Methyl acetate			100	93.6		ug/L		94	59 - 136	1	20
Methyl tert-butyl ether			50.0	49.4		ug/L		99	80 - 120	2	20
Methylcyclohexane			50.0	45.1		ug/L		90	64 - 130	7	21
Methylene Chloride			50.0	47.7		ug/L		95	78 - 120	1	20
m-Xylene & p-Xylene			50.0	46.4		ug/L		93	80 - 120	1	20
Naphthalene			50.0	55.4		ug/L		111	60 - 124	3	21
n-Butylbenzene			50.0	45.8		ug/L		92	59 - 140	4	20
N-Propylbenzene			50.0	48.2		ug/L		96	80 - 123	0	20
o-Xylene			50.0	47.8		ug/L		96	80 - 120	2	20
sec-Butylbenzene			50.0	48.9		ug/L		98	80 - 123	2	20
Tetrachloroethene			50.0	48.3		ug/L		97	80 - 121	3	20
Tetrahydrofuran			100	102		ug/L		102	62 - 130	2	20
Toluene			50.0	49.4		ug/L		99	80 - 120	3	20
trans-1,2-Dichloroethene			50.0	48.5		ug/L		97	79 - 121	3	20
trans-1,3-Dichloropropene			50.0	49.0		ug/L		98	80 - 123	2	20
trans-1,4-Dichloro-2-butene			50.0	35.3		ug/L		71	51 - 138	3	24
Trichloroethene			50.0	50.3		ug/L		101	80 - 120	3	20
Trichlorofluoromethane			50.0	52.4		ug/L		105	54 - 144	1	28
Vinyl acetate			100	138		ug/L		138	55 - 161	1	23
Vinyl chloride			50.0	52.9		ug/L		106	67 - 127	1	25
cis-1,3-Dichloropropene			50.0	47.1		ug/L		94	76 - 129	1	20
Styrene			50.0	48.9		ug/L		98	80 - 120	2	20
tert-Butylbenzene			50.0	48.6		ug/L		97	80 - 120	1	20

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

Lab Sample ID: LCSD 280-677221/5
Matrix: Water
Analysis Batch: 677221

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-677221/7
Matrix: Water
Analysis Batch: 677221

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
1,3,5-Trichlorobenzene			25.0	24.4		ug/L		97	50 - 149	0	20
Acetonitrile			250	249		ug/L		100	23 - 155	3	20
Ethyl acetate			50.0	49.8		ug/L		100	35 - 149	3	20
Isopropyl ether			25.0	25.4		ug/L		101	63 - 128	2	20
Methacrylonitrile			250	248		ug/L		99	42 - 142	3	20
Butyl alcohol, n-			625	694		ug/L		111	10 - 178	4	20
Tert-amyl methyl ether			25.0	25.2		ug/L		101	53 - 135	1	20
Ethyl tert-butyl ether			25.0	24.9		ug/L		100	53 - 137	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

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

Lab Sample ID: MB 280-677041/5
Matrix: Water
Analysis Batch: 677041

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.0529		0.020		ug/L			12/02/24 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*		*12/02/24 14:20*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/02/24 14:20*	*1*

Lab Sample ID: LCS 280-677041/1002
Matrix: Water
Analysis Batch: 677041

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			1.00	1.10		ug/L		110	40 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*77 - 120*

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

Lab Sample ID: LCSD 280-677041/3
Matrix: Water
Analysis Batch: 677041

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
Vinyl chloride			1.00	1.00		ug/L		100	40 - 144	9	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*77 - 120*

Lab Sample ID: 280-200074-I-6 MSD
Matrix: Water
Analysis Batch: 677041

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	81	E B	4.00	69.5	E 4	ug/L		-285	40 - 144	2	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*77 - 120*

Lab Sample ID: 280-200074-K-6 MS
Matrix: Water
Analysis Batch: 677041

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	81	E B	4.00	70.8	E 4	ug/L		-252	40 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-676317/1-A
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	ND		0.20		mg/L		11/25/24 15:00	11/28/24 04:47	1
Iron, Dissolved	ND		0.060		mg/L		11/25/24 15:00	11/28/24 04:47	1
Magnesium, Dissolved	ND		0.050		mg/L		11/25/24 15:00	11/28/24 04:47	1
Potassium, Dissolved	ND		1.0		mg/L		11/25/24 15:00	11/28/24 04:47	1
Sodium, Dissolved	ND		1.0		mg/L		11/25/24 15:00	11/28/24 04:47	1

Lab Sample ID: LCS 280-676317/2-A
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676317

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved			50.0	53.2		mg/L		106	90 - 111
Iron, Dissolved			10.0	10.7		mg/L		107	89 - 115
Magnesium, Dissolved			50.0	52.6		mg/L		105	90 - 113
Potassium, Dissolved			50.0	52.1		mg/L		104	89 - 114
Sodium, Dissolved			50.0	50.6		mg/L		101	90 - 115

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

Lab Sample ID: MB 280-676328/1-A
Matrix: Water
Analysis Batch: 676936

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		11/25/24 15:00	11/27/24 14:26	1
Iron, Total	ND		0.060		mg/L		11/25/24 15:00	11/27/24 14:26	1

Lab Sample ID: LCS 280-676328/2-A
Matrix: Water
Analysis Batch: 676936

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Total	1.00	0.981		mg/L		98	89 - 111
Iron, Total	10.0	10.4		mg/L		104	89 - 115

Lab Sample ID: 280-200002-A-5-B MS
Matrix: Water
Analysis Batch: 676936

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Total	0.0094		1.00	0.956		mg/L		95	82 - 119
Iron, Total	0.21		10.0	10.1		mg/L		99	75 - 125

Lab Sample ID: 280-200002-A-5-C MSD
Matrix: Water
Analysis Batch: 676936

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt, Total	0.0094		1.00	0.948		mg/L		94	82 - 119	1	20
Iron, Total	0.21		10.0	10.1		mg/L		98	75 - 125	1	20

Lab Sample ID: 280-199965-A-6-B MS
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 676317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	48		50.0	99.8		mg/L		105	75 - 125
Iron, Dissolved	ND		10.0	10.7		mg/L		107	75 - 125
Magnesium, Dissolved	11		50.0	63.3		mg/L		105	75 - 125
Potassium, Dissolved	2.6		50.0	54.8		mg/L		104	76 - 125
Sodium, Dissolved	11		50.0	66.6		mg/L		111	75 - 125

Lab Sample ID: 280-199965-A-6-C MSD
Matrix: Water
Analysis Batch: 676939

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 676317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium, Dissolved	48		50.0	101		mg/L		106	75 - 125	1	20
Iron, Dissolved	ND		10.0	10.7		mg/L		107	75 - 125	0	20
Magnesium, Dissolved	11		50.0	64.0		mg/L		106	75 - 125	1	20
Potassium, Dissolved	2.6		50.0	55.2		mg/L		105	76 - 125	1	20
Sodium, Dissolved	11		50.0	67.1		mg/L		112	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 280-676317/1-A
Matrix: Water
Analysis Batch: 676770

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		11/25/24 15:00	11/26/24 23:36	1

Lab Sample ID: LCS 280-676317/25-A
Matrix: Water
Analysis Batch: 676770

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0400	0.0407		mg/L		102	85 - 117

Lab Sample ID: MB 280-676328/1-A
Matrix: Water
Analysis Batch: 676970

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 22:45	1
Arsenic, Total	ND		0.0050		mg/L		11/25/24 15:00	11/27/24 22:45	1
Barium, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 22:45	1
Beryllium, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 22:45	1
Cadmium, Total	ND		0.00030		mg/L		11/25/24 15:00	11/27/24 22:45	1
Chromium, Total	ND		0.0030		mg/L		11/25/24 15:00	11/27/24 22:45	1
Copper, Total	ND		0.0020		mg/L		11/25/24 15:00	11/27/24 22:45	1
Lead, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 22:45	1
Manganese, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 22:45	1
Nickel, Total	ND		0.0040		mg/L		11/25/24 15:00	11/27/24 22:45	1
Silver, Total	ND		0.0020		mg/L		11/25/24 15:00	11/27/24 22:45	1
Thallium, Total	ND		0.0010		mg/L		11/25/24 15:00	11/27/24 22:45	1
Zinc, Total	ND		0.0050		mg/L		11/25/24 15:00	11/27/24 22:45	1

Lab Sample ID: LCS 280-676328/25-A
Matrix: Water
Analysis Batch: 676970

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	0.0400	0.0416		mg/L		104	85 - 115
Arsenic, Total	0.0400	0.0400		mg/L		100	85 - 117
Barium, Total	0.0400	0.0424		mg/L		106	85 - 118
Beryllium, Total	0.0400	0.0372		mg/L		93	80 - 125
Cadmium, Total	0.0400	0.0420		mg/L		105	85 - 115
Chromium, Total	0.0400	0.0395		mg/L		99	84 - 121
Copper, Total	0.0400	0.0378		mg/L		95	85 - 119
Lead, Total	0.0400	0.0396		mg/L		99	85 - 118
Manganese, Total	0.0400	0.0387		mg/L		97	85 - 117
Nickel, Total	0.0400	0.0390		mg/L		97	85 - 119
Silver, Total	0.0400	0.0396		mg/L		99	85 - 115
Thallium, Total	0.0400	0.0387		mg/L		97	85 - 118
Zinc, Total	0.0400	0.0352		mg/L		88	83 - 122

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-200002-A-5-E MS
Matrix: Water
Analysis Batch: 676970

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	ND		0.0400	0.0434		mg/L		107	80 - 111
Arsenic, Total	ND		0.0400	0.0414		mg/L		104	92 - 112
Barium, Total	0.014		0.0400	0.0586		mg/L		112	92 - 117
Beryllium, Total	ND	F1	0.0400	0.0474	F1	mg/L		119	87 - 118
Cadmium, Total	0.0025		0.0400	0.0412		mg/L		97	91 - 114
Chromium, Total	ND		0.0400	0.0409		mg/L		100	91 - 114
Copper, Total	0.021		0.0400	0.0575		mg/L		91	89 - 116
Lead, Total	ND		0.0400	0.0402		mg/L		100	95 - 116
Manganese, Total	1.8		0.0400	1.82	4	mg/L		145	89 - 119
Nickel, Total	0.16		0.0400	0.197	4	mg/L		91	92 - 116
Silver, Total	ND	F1	0.0400	0.0399		mg/L		96	93 - 118
Thallium, Total	0.0034		0.0400	0.0426		mg/L		98	94 - 115
Zinc, Total	0.029	F1	0.0400	0.0634	F1	mg/L		85	86 - 120

Lab Sample ID: 280-200002-A-5-E MS ^5
Matrix: Water
Analysis Batch: 677556

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium, Total	ND		0.0400	0.0434		mg/L		109	91 - 114

Lab Sample ID: 280-200002-A-5-E MS ^50
Matrix: Water
Analysis Batch: 677193

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium, Total	8.8		0.0400	9.08	4	mg/L		612	90 - 115

Lab Sample ID: 280-200002-A-5-F MSD
Matrix: Water
Analysis Batch: 676970

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony, Total	ND		0.0400	0.0416		mg/L		102	80 - 111	4	20
Arsenic, Total	ND		0.0400	0.0413		mg/L		103	92 - 112	0	20
Barium, Total	0.014		0.0400	0.0551		mg/L		103	92 - 117	6	20
Beryllium, Total	ND	F1	0.0400	0.0474	F1	mg/L		119	87 - 118	0	20
Cadmium, Total	0.0025		0.0400	0.0397		mg/L		93	91 - 114	4	20
Chromium, Total	ND		0.0400	0.0398		mg/L		97	91 - 114	3	20
Copper, Total	0.021		0.0400	0.0569		mg/L		90	89 - 116	1	20
Lead, Total	ND		0.0400	0.0401		mg/L		99	95 - 116	0	20
Manganese, Total	1.8		0.0400	1.82	4	mg/L		138	89 - 119	0	20
Nickel, Total	0.16		0.0400	0.197	4	mg/L		92	92 - 116	0	20
Silver, Total	ND	F1	0.0400	0.0383	F1	mg/L		92	93 - 118	4	20
Thallium, Total	0.0034		0.0400	0.0429		mg/L		99	94 - 115	1	20
Zinc, Total	0.029	F1	0.0400	0.0635		mg/L		86	86 - 120	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-200002-A-5-F MSD ^5
Matrix: Water
Analysis Batch: 677556

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium, Total	ND		0.0400	0.0431		mg/L		108	91 - 114	1	20

Lab Sample ID: 280-200002-A-5-F MSD ^50
Matrix: Water
Analysis Batch: 677193

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 676328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium, Total	8.8		0.0400	8.81	4	mg/L		-61	90 - 115	3	20

Lab Sample ID: 280-199965-A-6-E MS
Matrix: Water
Analysis Batch: 676770

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 676317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0074		0.0400	0.0495		mg/L		105	89 - 119

Lab Sample ID: 280-199965-A-6-F MSD
Matrix: Water
Analysis Batch: 676770

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 676317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Dissolved	0.0074		0.0400	0.0497		mg/L		106	89 - 119	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-676807/39
Matrix: Water
Analysis Batch: 676807

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			11/27/24 23:55	1
Sulfate	ND		5.0		mg/L			11/27/24 23:55	1

Lab Sample ID: LCS 280-676807/37
Matrix: Water
Analysis Batch: 676807

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.7		mg/L		100	90 - 110
Sulfate	100	101		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-676807/38
Matrix: Water
Analysis Batch: 676807

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
Chloride	100	100		mg/L		100	90 - 110	1	10
Sulfate	100	101		mg/L		101	90 - 110	0	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-676807/3
Matrix: Water
Analysis Batch: 676807

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.08		mg/L		102	50 - 150		
Sulfate			5.00	ND		mg/L		96	50 - 150		

Lab Sample ID: 280-200102-G-1 MS
Matrix: Water
Analysis Batch: 676807

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	150		50.0	205	E	mg/L		112	80 - 120		
Sulfate	6.7		50.0	64.0		mg/L		115	80 - 120		

Lab Sample ID: 280-200102-G-1 MSD
Matrix: Water
Analysis Batch: 676807

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	150		50.0	203	E	mg/L		108	80 - 120	1	20
Sulfate	6.7		50.0	62.8		mg/L		112	80 - 120	2	20

Lab Sample ID: 280-200102-G-1 DU
Matrix: Water
Analysis Batch: 676807

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	150		150		mg/L		0.5	15
Sulfate	6.7		6.81		mg/L		1	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-677703/98
Matrix: Water
Analysis Batch: 677703

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.030		mg/L			12/06/24 14:55	1

Lab Sample ID: LCS 280-677703/99
Matrix: Water
Analysis Batch: 677703

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)			2.51	2.56		mg/L		102	90 - 110		

Lab Sample ID: 280-199989-D-3 MS
Matrix: Water
Analysis Batch: 677703

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)	ND		1.00	1.07		mg/L		107	90 - 110		

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-199989-D-3 MSD
Matrix: Water
Analysis Batch: 677703

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	ND		1.00	1.07		mg/L		107	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-677092/59
Matrix: Water
Analysis Batch: 677092

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10		mg/L			12/02/24 14:17	1

Lab Sample ID: LCS 280-677092/57
Matrix: Water
Analysis Batch: 677092

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			1.00	1.03		mg/L		103	90 - 110		

Lab Sample ID: LCSD 280-677092/58
Matrix: Water
Analysis Batch: 677092

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
Nitrate Nitrite as N			1.00	1.05		mg/L		105	90 - 110	2	10

Lab Sample ID: 280-199985-C-2 MS
Matrix: Water
Analysis Batch: 677092

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	12		2.00	15.9	4	mg/L		173	90 - 110		

Lab Sample ID: 280-199985-C-2 MSD
Matrix: Water
Analysis Batch: 677092

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	14		2.00	15.8	4	mg/L		91	90 - 110	0	10

Method: 410.4 - COD

Lab Sample ID: MB 280-677126/4
Matrix: Water
Analysis Batch: 677126

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		10		mg/L			12/03/24 08:36	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 280-677126/3
Matrix: Water
Analysis Batch: 677126

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)			100	95.9		mg/L		96	90 - 110		

Lab Sample ID: 680-259163-C-2 MS
Matrix: Water
Analysis Batch: 677126

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)	ND		50.0	54.1		mg/L		108	90 - 110		

Lab Sample ID: 680-259163-C-2 MSD
Matrix: Water
Analysis Batch: 677126

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	ND		50.0	53.0		mg/L		106	90 - 110	2	11

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-676826/6
Matrix: Water
Analysis Batch: 676826

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10		mg/L			11/26/24 21:52	1
Bicarbonate Alkalinity as CaCO3	ND		10		mg/L			11/26/24 21:52	1

Lab Sample ID: LCS 280-676826/4
Matrix: Water
Analysis Batch: 676826

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity, Total			200	191		mg/L		96	89 - 110		

Lab Sample ID: LCSD 280-676826/5
Matrix: Water
Analysis Batch: 676826

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
Alkalinity, Total			200	193		mg/L		96	89 - 110	1	10

Lab Sample ID: 280-199914-G-1 DU
Matrix: Water
Analysis Batch: 676826

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	450		454		mg/L		0.9	10
Bicarbonate Alkalinity as CaCO3	450		454		mg/L		0.9	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-676641/1
Matrix: Water
Analysis Batch: 676641

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0		mg/L			11/26/24 10:01	1

Lab Sample ID: LCS 280-676641/2
Matrix: Water
Analysis Batch: 676641

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)			503	495		mg/L		98	88 - 114		

Lab Sample ID: 280-199925-A-3 DU
Matrix: Water
Analysis Batch: 676641

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	6600			6340		mg/L				3	10

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-677808/35
Matrix: Water
Analysis Batch: 677808

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/06/24 19:56	1

Lab Sample ID: LCS 280-677808/34
Matrix: Water
Analysis Batch: 677808

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	25.2		mg/L		101	88 - 112		

Lab Sample ID: 280-200048-E-3 MS
Matrix: Water
Analysis Batch: 677808

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	2.9		25.0	28.5		mg/L		102	88 - 112		

Lab Sample ID: 280-200048-E-3 MSD
Matrix: Water
Analysis Batch: 677808

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	2.9		25.0	28.2		mg/L		101	88 - 112	1	15

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-676185/4
Matrix: Water
Analysis Batch: 676185

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: SCB 280-676185/1
Matrix: Water
Analysis Batch: 676185

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

Analyte	SCB Result	SCB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: USB 280-676185/2
Matrix: Water
Analysis Batch: 676185

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			11/22/24 08:00	1

Lab Sample ID: LCS 280-676185/3
Matrix: Water
Analysis Batch: 676185

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	192		mg/L		97	85 - 115		

Lab Sample ID: LCSD 280-676185/15
Matrix: Water
Analysis Batch: 676185

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
Biochemical Oxygen Demand			198	189		mg/L		95	85 - 115	2	20

Lab Sample ID: 280-199902-B-1 DU
Matrix: Water
Analysis Batch: 676185

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	ND			ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 677041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	8260D SIM	
MB 280-677041/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 280-677041/1002	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 280-677041/3	Lab Control Sample Dup	Total/NA	Water	8260D SIM	
280-200074-I-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
280-200074-K-6 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 677221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	8260D	
MB 280-677221/9	Method Blank	Total/NA	Water	8260D	
LCS 280-677221/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-677221/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-677221/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-677221/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 676317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Dissolved	Water	3005A	
MB 280-676317/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-676317/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-676317/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-199965-A-6-B MS	Matrix Spike	Dissolved	Water	3005A	
280-199965-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
280-199965-A-6-E MS	Matrix Spike	Dissolved	Water	3005A	
280-199965-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 676328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total Recoverable	Water	3005A	
MB 280-676328/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-676328/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-676328/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-200002-A-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-200002-A-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-200002-A-5-E MS	Matrix Spike	Total Recoverable	Water	3005A	
280-200002-A-5-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
280-200002-A-5-E MS ^50	Matrix Spike	Total Recoverable	Water	3005A	
280-200002-A-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-200002-A-5-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-200002-A-5-F MSD ^50	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 676770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Dissolved	Water	6020B	676317
MB 280-676317/1-A	Method Blank	Total Recoverable	Water	6020B	676317
LCS 280-676317/25-A	Lab Control Sample	Total Recoverable	Water	6020B	676317
280-199965-A-6-E MS	Matrix Spike	Dissolved	Water	6020B	676317
280-199965-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	676317

Metals

Analysis Batch: 676936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total Recoverable	Water	6010D	676328
MB 280-676328/1-A	Method Blank	Total Recoverable	Water	6010D	676328
LCS 280-676328/2-A	Lab Control Sample	Total Recoverable	Water	6010D	676328
280-200002-A-5-B MS	Matrix Spike	Total Recoverable	Water	6010D	676328
280-200002-A-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010D	676328

Analysis Batch: 676939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Dissolved	Water	6010D	676317
MB 280-676317/1-A	Method Blank	Total Recoverable	Water	6010D	676317
LCS 280-676317/2-A	Lab Control Sample	Total Recoverable	Water	6010D	676317
280-199965-A-6-B MS	Matrix Spike	Dissolved	Water	6010D	676317
280-199965-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	676317

Analysis Batch: 676970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total Recoverable	Water	6020B	676328
MB 280-676328/1-A	Method Blank	Total Recoverable	Water	6020B	676328
LCS 280-676328/25-A	Lab Control Sample	Total Recoverable	Water	6020B	676328
280-200002-A-5-E MS	Matrix Spike	Total Recoverable	Water	6020B	676328
280-200002-A-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	676328

Analysis Batch: 677150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Dissolved	Water	6010D	676317

Analysis Batch: 677193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200002-A-5-E MS ^50	Matrix Spike	Total Recoverable	Water	6020B	676328
280-200002-A-5-F MSD ^50	Matrix Spike Duplicate	Total Recoverable	Water	6020B	676328

Analysis Batch: 677556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200002-A-5-E MS ^5	Matrix Spike	Total Recoverable	Water	6020B	676328
280-200002-A-5-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020B	676328

Analysis Batch: 678242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total Recoverable	Water	6020B	676328

General Chemistry

Analysis Batch: 676185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	SM5210B	
MB 280-676185/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-676185/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-676185/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-676185/3	Lab Control Sample	Total/NA	Water	SM5210B	
LCSD 280-676185/15	Lab Control Sample Dup	Total/NA	Water	SM5210B	
280-199902-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

General Chemistry

Analysis Batch: 676377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	353.2	

Analysis Batch: 676641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	SM 2540C	
MB 280-676641/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-676641/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-199925-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 676807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	300.0	
MB 280-676807/39	Method Blank	Total/NA	Water	300.0	
LCS 280-676807/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-676807/38	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-676807/3	Lab Control Sample	Total/NA	Water	300.0	
280-200102-G-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-200102-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-200102-G-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 676826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	SM 2320B	
MB 280-676826/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-676826/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-676826/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-199914-G-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 677092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	353.2	
MB 280-677092/59	Method Blank	Total/NA	Water	353.2	
LCS 280-677092/57	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-677092/58	Lab Control Sample Dup	Total/NA	Water	353.2	
280-199985-C-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-199985-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 677126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	410.4	
MB 280-677126/4	Method Blank	Total/NA	Water	410.4	
LCS 280-677126/3	Lab Control Sample	Total/NA	Water	410.4	
680-259163-C-2 MS	Matrix Spike	Total/NA	Water	410.4	
680-259163-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 677703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	350.1	
MB 280-677703/98	Method Blank	Total/NA	Water	350.1	
LCS 280-677703/99	Lab Control Sample	Total/NA	Water	350.1	
280-199989-D-3 MS	Matrix Spike	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 677703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199989-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 677808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199988-1	LP-LCD	Total/NA	Water	SM 5310B	
MB 280-677808/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-677808/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-200048-E-3 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-200048-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Lab Chronicle

Client: Waste Management
Job ID: 280-199988-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Client Sample ID: LP-LCD
Date Collected: 11/19/24 11:30
Date Received: 11/22/24 09:10

Lab Sample ID: 280-199988-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	677221	12/03/24 21:36	ETB	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	677041	12/02/24 17:47	KJG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	676317	11/25/24 15:00	SMK	EET DEN
Dissolved	Analysis	6010D		1			676939	11/28/24 06:11	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	676317	11/25/24 15:00	SMK	EET DEN
Dissolved	Analysis	6010D		5			677150	12/02/24 21:20	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	676328	11/25/24 15:00	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			676936	11/27/24 17:28	ADL	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	676317	11/25/24 15:00	SMK	EET DEN
Dissolved	Analysis	6020B		1			676770	11/26/24 23:43	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	676328	11/25/24 15:00	SMK	EET DEN
Total Recoverable	Analysis	6020B		1			676970	11/27/24 23:48	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	676328	11/25/24 15:00	SMK	EET DEN
Total Recoverable	Analysis	6020B		1			678242	12/11/24 16:56	LMT	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	676807	11/28/24 01:12	EJS	EET DEN
Total/NA	Analysis	350.1		2	10 mL	10 mL	677703	12/06/24 15:56	LBR	EET DEN
Total/NA	Analysis	353.2		1			676377	11/24/24 19:29	P1C	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677092	12/02/24 14:25	AKF	EET DEN
Total/NA	Analysis	410.4		2	2 mL	2 mL	677126	12/03/24 08:36	MF	EET DEN
Total/NA	Analysis	SM 2320B		1			676826	11/26/24 23:55	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	676641	11/26/24 10:01	BRD	EET DEN
Total/NA	Analysis	SM 5310B		2	20 mL	20 mL	677808	12/06/24 23:37	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	676185	11/22/24 13:22	MF	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

09 December 2024

Janice Collins
Eurofins - Test America - Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Olympic View Sanitary LF (OVSL) w/SCS Engineers (28002692 (280-199988-1))

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
24K0683	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Shelly Fishel, Project Manager

Cert# 100006-012

24K0683

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-725734.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Analytical Resources, Inc		Accreditations Required (See note): State - Washington		Job #: 280-199988-1
Address: 4611 South 134th Place, Suite 100, ,	Due Date Requested: 12/12/2024			
City: Tukwila	TAT Requested (days): N/A			
State, Zip: WA, 98168				
Phone: 206-695-6200(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Leachate	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Total Arsenic (ARI))/ Total Arsenic (ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LP-LCD (280-199988-1)	11/19/24	11:30 Pacific	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11-25-24 15:00	Eurofins	10:15	11/26/24	ARI
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:

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199988-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LP-LCD (280-199988-1)	24K0683-01	Water	19-Nov-2024 11:30	26-Nov-2024 10:15

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199988-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:14

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers
Project Number: 28002692 (280-199988-1)
Work Order: 24K0683

Sample receipt

Samples as listed on the preceding page were received 26-Nov-2024 10:15 under ARI work order 24K0683. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Metals - EPA Method 6020B

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

WORK ORDER

24K0683

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Eurofins - Test America - Denver **Project Manager: Shelly Fishel**

Project: Olympic View Sanitary LF (OVSL) w/SCS Engine **Project Number: 28002692 (280-199988-1)**

Report To:
Eurofins - Test America - Denver
Janice Collins
4955 Yarrow Street
Arvada, CO 80002
Phone: (303) 736-0100
Fax: (303) 431-7171

Invoice To:
Eurofins - Test America - Denver
Accounts Payable
343 W Main St
Leola, PA 17540
Phone :(303) 736-0100
Fax: (303) 431-7171

Date Due: 11-Dec-2024 18:00 (10 day TAT)

Received By: Matthew Daniel Date Received: 26-Nov-2024 10:15

Logged In By: Rowan Miller Date Logged In: 27-Nov-2024 10:35

Samples Received at: **2.7°C**

Intact, properly signed and dated custody seals attached to outside of cooler(s)	No	Custody papers included with the cooler	Yes
Custody papers properly filled out (in, signed, analyses requested, etc)	Yes	Was a temperature blank included in the cooler	No
Was sufficient ice used (if appropriate)	Yes	All bottles sealed in individual plastic bags	Yes
All bottles arrived in good condition (unbroken)	Yes	All bottle labels complete and legible	Yes
Number of containers listed on COC match number received	Yes	Bottle labels and tags agree with COC	Yes
Correct bottles used for the requested analyses	Yes	All VOC vials free of air bubbles	No
Analyses/bottles require preservation (attach preservation sheet excluding VOC)	Yes	Sufficient amount of sample sent in each bottle	Yes
Sample split at ARI	No		

Preservation Confirmation

Container ID	Container Type	pH
24K0683-01 A	HDPE NM, 250mL HNO3	<2 P

Preservation Confirmed By

11/27/24
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins Denver Project Name: Olympic View Sanitary LF

COC No(s): _____ NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other:____

Assigned ARI Job No: 24K0683 Tracking No: 0201 4230 6421 4141 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) Time 1015 ____ 2.7°C ____ ____ ____ ____ Temp Gun ID#: 5009408		
Was a temperature blank included in the cooler?	YES	NO
Were coolers received between 0°- 6° (°C)	YES	NO
Was sufficient ice used (if appropriate)?	NA YES	NO

Cooler Accepted by: MP Date: 11/26/24 Time: 1015

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block N/A Other: _____

Are any samples that were out of temperature compliance documented in LIMS?		YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: _____ Date: 11/27/24 Time: 1035 Labels checked by: _____

***** Notify Project Manager of discrepancies or concerns *****

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199988-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:14

LP-LCD (280-199988-1)
24K0683-01 (Water)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 11/19/2024 11:30
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/05/2024 20:17

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24K0683-01 A 01
Preparation Batch: BML0033 — Sample Size: 100 mL
Prepared: 12/03/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	10	0.0746	0.400	18.6	ug/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199988-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:14

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0033 - EPA 6020B UCT-KED

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0033-BLK1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:14						
Arsenic	75a	ND	0.00746	0.0400	ug/L							U
LCS (BML0033-BS1)						Prepared: 03-Dec-2024 Analyzed: 05-Dec-2024 19:17						
Arsenic	75a	4.74	0.00746	0.0400	ug/L	5.00		94.7	80-120			

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199988-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:14

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B UCT-KED in Water	
Arsenic-75a	WADOE,DoD-ELAP,ADEC,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-199988-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	09-Dec-2024 16:14

Notes and Definitions

D	The reported value is from a dilution
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information
Client Contact:
Company: Waste Management
Address: Olympic View Transfer Station 9300 Southwest Barney White Ro
City: Bremerton
State, Zip: WA, 98312
Phone:
Email: cluckie@wm.com
Project Name: WA02|Olympic View Sanitary LF
Site: Washington

Sampler: Alex DeSzo
Phone: 206-406-3241
Lab PM: Collins, Janice S
E-Mail: Janice.Collins@et.eurofinsus.com
Carrier Tracking No(s): 818527 409063
State of Origin: WA
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #:
WO #:
Project #: 28002692-Semiannual Leachate Appl/II - May/Nov
SSOW#:

COC No: 280-31456-972.1
Page: 1 of 1
Job #: 042040027.27

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)	TDS/Alks/Cl/SO4/NO3(cad)	6010D/6020B - Dissolved Metals (FF)	6010D/6020B - Total Metals	BOD	Ammonia/TOC/COD/NOXT	8260C - VOCs	8260C_SIM - Vinyl chloride	LL Arsenic (direct sub to ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	N	S	A	A	D		
LP-LCD	11/19/24	1130	6	Water	N	N	X	X	X	X	X	X	X	X		short holds: BOD and Nitrate (353.2-cad)
																Total LL Arsenic - direct sub from field to ARI
																Please filter Diss. metals

280-199988 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 - Na2S2SO3
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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by: Alex DeSzo	11/19/24	SCS	Received by:		
Relinquished by:	Date/Time:	Company	Received by:	11-22-24 0910	EETDEN
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: 0.8C PABU CF02

12/16/2024

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-199988-1

Login Number: 199988
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

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JOB DESCRIPTION

WA02|Olympic View Sanitary LF
Annual OBW-TB/L-INF App I/II -Dec

JOB NUMBER

280-200191-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

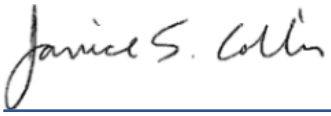
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-200191-1
Project/Site: WA02|Olympic View Sanitary LF

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-200191-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 12/3/2024 9:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Receipt Exceptions
The following sample was received at the laboratory without a sample collection time documented on the chain of custody: L-INF-241202 (280-200191-1). The sample was logged per the collection time on the container.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Sample was logged per information on the container label.

Subcontract Work
Method Total Arsenic (ARI): This method was subcontracted to Analytical Resources, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
Method 8260D: The following sample was collected in a properly preserved vial; however, the pH 6 was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: L-INF-241202 (280-200191-1).
analytical batch 280-678352

Method 8260D: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 280-678352: Bromomethane @ -51.4%D, Dichlorodifluoromethane @ -30.1%D and Iodomethane @ -48.5%D. These compounds are considered poor performers. The LCS/LCSD are within control limits.
L-INF-241202 (280-200191-1) and (CCV 280-678352/2)

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-678352 recovered above the upper control limit for Vinyl acetate @ 34.4%D. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
L-INF-241202 (280-200191-1) and (CCV 280-678352/2)

Method 8260D: The initial calibration verification (ICV) result for batch 280-675009 was outside the control limit. The affected analytes are: Acrolein @ -56.0%D. This compound is considered a poor performer, and have been reported as qualified data.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-678352 recovered outside control limits for the following analytes: Vinyl acetate @ 29% limit is 23%. The LCS/LCSD

percent recoveries are within control limits.
L-INF-241202 (280-200191-1) and (LCSD 280-678352/5)

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-678352. The batch contains an LCS/LCSD to show precision.
L-INF-241202 (280-200191-1)

Method 8260D: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: L-INF-241202 (280-200191-1). Elevated reporting limits (RLs) are provided.
analytical batch 280-678352

Method 8260D_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-677474. LCS/LCSD was provided.

Method 8260D_SIM: Method required MS/MSD QC were prepared and analyzed at required batch frequency for analytical batch 280-678117 using samples from other sites, and are not reported with this project. L-INF-241202 (280-200191-1).

Method 8260D_SIM: Reporting Limit - Estimated; Outside Calibration Range : The reporting limit provided (0.02ug/L) for Vinyl chloride falls below the laboratory's lowest calibration standard of 0.1ug/L. Results reported below the lowest calibration standard are estimated.L-INF-241202 (280-200191-1)

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

Metals
Method 6010D - Dissolved: The following sample was received with insufficient preservation: L-INF-241202 (280-200191-1). Nitric acid was added by the laboratory and the desired pH was achieved.

Method 6010D - Dissolved: The following sample was diluted to bring the concentration of target analytes within the calibration range: L-INF-241202 (280-200191-1). Elevated reporting limits (RLs) are provided.

Method 6010D - Total Recoverable: The following sample was received with insufficient preservation: L-INF-241202 (280-200191-1). Nitric acid was added by the laboratory and the desired pH was achieved.

Method 6020B - Dissolved: The following sample was received with insufficient preservation: L-INF-241202 (280-200191-1). Nitric acid was added by the laboratory and the desired pH was achieved.

Method 6020B - Total Recoverable: The following sample was received with insufficient preservation: L-INF-241202 (280-200191-1). Nitric acid was added by the laboratory and the desired pH was achieved.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Cd: L-INF-241202 (280-200191-1). However, the result is within repeatability from historical results.

Method 6020B - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Zn: L-INF-241202 (280-200191-1). Reanalysis (bottle check) was performed, and the result(s) confirmed.

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

General Chemistry
Method 300.0_28D: The concentration of Chloride and Sulfate in the matrix spike and matrix spike duplicate (MS/MSD) parent sample is higher than the highest point of the calibration range. The recoveries for the MS/MSD are not within the recovery limits of 80-120%. (280-200042-J-1), (280-200042-J-1 MS) and (280-200042-J-1 MSD)

Method 353.2_Pres: The results reported for the following sample does not concur with results previously reported for this site: L-INF-241202 (280-200191-1). Reanalysis was performed, and the result confirmed.

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

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

Detection Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-200191-1

Client Sample ID: L-INF-241202 — Lab Sample ID: 280-200191-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl alcohol, tert-	220		50		ug/L	5		8260D	Total/NA
Tetrahydrofuran	58		35		ug/L	5		8260D	Total/NA
Cobalt, Total	0.027		0.0030		mg/L	1		6010D	Total Recoverable
Iron, Total	2.1		0.060		mg/L	1		6010D	Total Recoverable
Calcium, Dissolved	130		0.20		mg/L	1		6010D	Dissolved
Iron, Dissolved	0.69		0.060		mg/L	1		6010D	Dissolved
Magnesium, Dissolved	82		0.050		mg/L	1		6010D	Dissolved
Potassium, Dissolved	150		1.0		mg/L	1		6010D	Dissolved
Sodium, Dissolved	860		5.0		mg/L	5		6010D	Dissolved
Antimony, Total	0.0012		0.0010		mg/L	1		6020B	Total Recoverable
Arsenic, Total	0.0053		0.0050		mg/L	1		6020B	Total Recoverable
Barium, Total	0.22		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium, Total	0.00034		0.00030		mg/L	1		6020B	Total Recoverable
Chromium, Total	0.0081		0.0030		mg/L	1		6020B	Total Recoverable
Copper, Total	0.023		0.0020		mg/L	1		6020B	Total Recoverable
Manganese, Total	1.9		0.0010		mg/L	1		6020B	Total Recoverable
Nickel, Total	0.12		0.0040		mg/L	1		6020B	Total Recoverable
Vanadium, Total	0.012		0.0020		mg/L	1		6020B	Total Recoverable
Zinc, Total	0.27		0.0050		mg/L	1		6020B	Total Recoverable
Manganese, Dissolved	1.9		0.0010		mg/L	1		6020B	Dissolved
Chloride	1200		60		mg/L	20		300.0	Total/NA
Sulfate	240		100		mg/L	20		300.0	Total/NA
Ammonia (as N)	230		3.0		mg/L	100		350.1	Total/NA
Nitrate as N	13		0.050		mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	14		1.0		mg/L	20		353.2	Total/NA
Chemical Oxygen Demand (COD)	470		50		mg/L	5		410.4	Total/NA
Alkalinity, Total (As CaCO3)	1500		10		mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate (As CaCO3)	1500		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids (TDS)	3400		50		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Average	160		5.0		mg/L	5		SM 5310B	Total/NA
Biochemical Oxygen Demand	52		24		mg/L	1		SM5210B	Total/NA
Specific Conductivity	6929				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	2.9				mg/L	1		Field Sampling	Total/NA
eH	91.9				millivolts	1		Field Sampling	Total/NA
Turbidity	22.0				NTU	1		Field Sampling	Total/NA
Temperature	11.1				Degrees C	1		Field Sampling	Total/NA
pH	7.13				SU	1		Field Sampling	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-200191-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Waste Management
Job ID: 280-200191-1
Project/Site: WA02|Olympic View Sanitary LF

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET DEN
6020B	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrate	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
410.4	COD	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
Subcontract	Total Arsenic (ARI)	None	SC0056
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Sample Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-200191-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-200191-1	L-INF-241202	Water	12/02/24 12:00	12/03/24 09:25
280-200191-2	TRIP BLANK	Water	12/02/24 00:00	12/03/24 09:25

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

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			12/11/24 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*12/11/24 11:18*	*1*

Client Sample ID: TRIP BLANK
Date Collected: 12/02/24 00:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			12/05/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*12/05/24 13:57*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*12/05/24 13:57*	*1*

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

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			12/13/24 02:51	5
1,1,1-Trichloroethane	ND		5.0		ug/L			12/13/24 02:51	5
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			12/13/24 02:51	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15		ug/L			12/13/24 02:51	5
1,1,2-Trichloroethane	ND		5.0		ug/L			12/13/24 02:51	5
1,1-Dichloroethane	ND		5.0		ug/L			12/13/24 02:51	5
1,1-Dichloroethene	ND		5.0		ug/L			12/13/24 02:51	5
1,1-Dichloropropene	ND		5.0		ug/L			12/13/24 02:51	5
1,2,3-Trichlorobenzene	ND		20		ug/L			12/13/24 02:51	5
1,2,3-Trichloropropane	ND		13		ug/L			12/13/24 02:51	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			12/13/24 02:51	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			12/13/24 02:51	5
1,2-Dichlorobenzene	ND		5.0		ug/L			12/13/24 02:51	5
1,2-Dichloroethane	ND		5.0		ug/L			12/13/24 02:51	5
1,2-Dichloroethene, Total	ND		5.0		ug/L			12/13/24 02:51	5
1,2-Dichloropropane	ND		5.0		ug/L			12/13/24 02:51	5
1,3,5-Trichlorobenzene	ND		25		ug/L			12/13/24 02:51	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
1,3-Dichlorobenzene	ND		5.0		ug/L			12/13/24 02:51	5
1,3-Dichloropropane	ND		5.0		ug/L			12/13/24 02:51	5
1,4-Dichlorobenzene	ND		5.0		ug/L			12/13/24 02:51	5
1,4-Dioxane	ND		200		ug/L			12/13/24 02:51	5
2,2-Dichloropropane	ND		5.0		ug/L			12/13/24 02:51	5
2-Butanone (MEK)	ND		50		ug/L			12/13/24 02:51	5
o-Chlorotoluene	ND		5.0		ug/L			12/13/24 02:51	5
2-Hexanone	ND		25		ug/L			12/13/24 02:51	5
Butyl alcohol, tert-	**220**		50		ug/L			12/13/24 02:51	5
p-Chlorotoluene	ND		5.0		ug/L			12/13/24 02:51	5
p-Cymene	ND		5.0		ug/L			12/13/24 02:51	5

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

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			12/13/24 02:51	5
Acetone	ND		75		ug/L			12/13/24 02:51	5
Acetonitrile	ND		150		ug/L			12/13/24 02:51	5
Acrolein	ND		100		ug/L			12/13/24 02:51	5
Acrylonitrile	ND		100		ug/L			12/13/24 02:51	5
Benzene	ND		5.0		ug/L			12/13/24 02:51	5
Bromobenzene	ND		5.0		ug/L			12/13/24 02:51	5
Bromoform	ND		10		ug/L			12/13/24 02:51	5
Bromomethane	ND		25		ug/L			12/13/24 02:51	5
Carbon disulfide	ND		10		ug/L			12/13/24 02:51	5
Carbon tetrachloride	ND		5.0		ug/L			12/13/24 02:51	5
Chlorobenzene	ND		5.0		ug/L			12/13/24 02:51	5
Bromochloromethane	ND		5.0		ug/L			12/13/24 02:51	5
Dibromochloromethane	ND		5.0		ug/L			12/13/24 02:51	5
Chloroethane	ND		10		ug/L			12/13/24 02:51	5
Chloroform	ND		5.0		ug/L			12/13/24 02:51	5
Chloromethane	ND		10		ug/L			12/13/24 02:51	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/13/24 02:51	5
Cyclohexane	ND		5.0		ug/L			12/13/24 02:51	5
Dibromomethane	ND		5.0		ug/L			12/13/24 02:51	5
Bromodichloromethane	ND		5.0		ug/L			12/13/24 02:51	5
Dichlorodifluoromethane	ND		10		ug/L			12/13/24 02:51	5
Dichlorofluoromethane	ND		10		ug/L			12/13/24 02:51	5
Ethyl acetate	ND		25		ug/L			12/13/24 02:51	5
Ethyl ether	ND		10		ug/L			12/13/24 02:51	5
Ethylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			12/13/24 02:51	5
Hexachlorobutadiene	ND		10		ug/L			12/13/24 02:51	5
Hexane	ND		10		ug/L			12/13/24 02:51	5
Iodomethane	ND		25		ug/L			12/13/24 02:51	5
Isobutanol	ND		550		ug/L			12/13/24 02:51	5
Isopropyl ether	ND		50		ug/L			12/13/24 02:51	5
Isopropylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
Methacrylonitrile	ND		75		ug/L			12/13/24 02:51	5
Methyl acetate	ND		25		ug/L			12/13/24 02:51	5
Methyl tert-butyl ether	ND		25		ug/L			12/13/24 02:51	5
Methylcyclohexane	ND		5.0		ug/L			12/13/24 02:51	5
Methylene Chloride	ND		10		ug/L			12/13/24 02:51	5
m-Xylene & p-Xylene	ND		10		ug/L			12/13/24 02:51	5
Naphthalene	ND		15		ug/L			12/13/24 02:51	5
Butyl alcohol, n-	ND		300		ug/L			12/13/24 02:51	5
n-Butylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
N-Propylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
o-Xylene	ND		5.0		ug/L			12/13/24 02:51	5
sec-Butylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
Tetrachloroethene	ND		5.0		ug/L			12/13/24 02:51	5
Tetrahydrofuran	**58**		35		ug/L			12/13/24 02:51	5
Toluene	ND		5.0		ug/L			12/13/24 02:51	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			12/13/24 02:51	5

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

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		5.0		ug/L			12/13/24 02:51	5
trans-1,4-Dichloro-2-butene	ND		15		ug/L			12/13/24 02:51	5
Trichloroethene	ND		5.0		ug/L			12/13/24 02:51	5
Trichlorofluoromethane	ND		10		ug/L			12/13/24 02:51	5
Vinyl acetate	ND	*1	15		ug/L			12/13/24 02:51	5
Vinyl chloride	ND		5.0		ug/L			12/13/24 02:51	5
cis-1,3-Dichloropropene	ND		5.0		ug/L			12/13/24 02:51	5
Styrene	ND		5.0		ug/L			12/13/24 02:51	5
tert-Butylbenzene	ND		5.0		ug/L			12/13/24 02:51	5
Tert-amyl methyl ether	ND		25		ug/L			12/13/24 02:51	5
Ethyl tert-butyl ether	ND		25		ug/L			12/13/24 02:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*12/13/24 02:51*	*5*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*12/13/24 02:51*	*5*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/13/24 02:51*	*5*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	**0.027**		0.0030		mg/L		12/05/24 08:34	12/05/24 19:21	1
Iron, Total	**2.1**		0.060		mg/L		12/05/24 08:34	12/05/24 19:21	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	**130**		0.20		mg/L		12/04/24 14:53	12/05/24 16:43	1
Iron, Dissolved	**0.69**		0.060		mg/L		12/04/24 14:53	12/05/24 16:43	1
Magnesium, Dissolved	**82**		0.050		mg/L		12/04/24 14:53	12/05/24 16:43	1
Potassium, Dissolved	**150**		1.0		mg/L		12/04/24 14:53	12/05/24 16:43	1
Sodium, Dissolved	**860**		5.0		mg/L		12/04/24 14:53	12/06/24 19:12	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	**0.0012**		0.0010		mg/L		12/05/24 08:34	12/05/24 16:00	1
Arsenic, Total	**0.0053**		0.0050		mg/L		12/05/24 08:34	12/05/24 16:00	1
Barium, Total	**0.22**		0.0010		mg/L		12/05/24 08:34	12/05/24 16:00	1
Beryllium, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 16:00	1
Cadmium, Total	**0.00034**		0.00030		mg/L		12/05/24 08:34	12/05/24 16:00	1
Chromium, Total	**0.0081**		0.0030		mg/L		12/05/24 08:34	12/05/24 16:00	1
Copper, Total	**0.023**		0.0020		mg/L		12/05/24 08:34	12/05/24 16:00	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 16:00	1
Manganese, Total	**1.9**		0.0010		mg/L		12/05/24 08:34	12/05/24 16:00	1
Nickel, Total	**0.12**		0.0040		mg/L		12/05/24 08:34	12/05/24 16:00	1
Selenium, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 16:00	1
Silver, Total	ND		0.0020		mg/L		12/05/24 08:34	12/05/24 16:00	1
Thallium, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 16:00	1
Vanadium, Total	**0.012**		0.0020		mg/L		12/05/24 08:34	12/05/24 16:00	1
Zinc, Total	**0.27**		0.0050		mg/L		12/05/24 08:34	12/05/24 16:00	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**1.9**		0.0010		mg/L		12/04/24 14:53	12/05/24 12:59	1

General Chemistry

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**1200**		60		mg/L			12/03/24 15:09	20
Sulfate (EPA 300.0)	**240**		100		mg/L			12/03/24 15:09	20
Ammonia (as N) (EPA 350.1)	**230**		3.0		mg/L			12/11/24 14:30	100
Nitrate as N (EPA 353.2)	**13**		0.050		mg/L			12/03/24 20:31	1
Nitrate Nitrite as N (EPA 353.2)	**14**		1.0		mg/L			12/06/24 15:03	20
Chemical Oxygen Demand (COD) (EPA 410.4)	**470**		50		mg/L			12/05/24 09:09	5
Alkalinity, Total (As CaCO3) (SM 2320B)	**1500**		10		mg/L			12/04/24 21:20	1
Alkalinity, Bicarbonate (As CaCO3) (SM 2320B)	**1500**		10		mg/L			12/04/24 21:20	1
Total Dissolved Solids (TDS) (SM 2540C)	**3400**		50		mg/L			12/04/24 08:45	1
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			12/04/24 09:59	1
Total Organic Carbon - Average (SM 5310B)	**160**		5.0		mg/L			12/11/24 12:16	5
Biochemical Oxygen Demand (SM5210B)	**52**		24		mg/L			12/04/24 08:06	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	**6929**				umhos/cm			12/02/24 13:00	1
Dissolved Oxygen	**2.9**				mg/L			12/02/24 13:00	1
eH	**91.9**				millivolts			12/02/24 13:00	1
Turbidity	**22.0**				NTU			12/02/24 13:00	1

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-200191-1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: L-INF-241202
Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	11.1				Degrees C			12/02/24 13:00	1
pH	7.13				SU			12/02/24 13:00	1

Surrogate Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-200191-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(80-125)
280-200191-1	L-INF-241202	90	101	100
LCS 280-678352/4	Lab Control Sample	91	100	100
LCS 280-678352/6	Lab Control Sample	88	100	104
LCSD 280-678352/5	Lab Control Sample Dup	92	103	100
LCSD 280-678352/7	Lab Control Sample Dup	89	101	99
MB 280-678352/9	Method Blank	91	102	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	DBFM
Lab Sample ID	Client Sample ID	(70-127)	(77-120)
280-200191-1	L-INF-241202		102
280-200191-2	TRIP BLANK	105	96
LCS 280-677474/1002	Lab Control Sample	102	99
LCS 280-678117/1002	Lab Control Sample	98	101
LCSD 280-677474/3	Lab Control Sample Dup	104	99
LCSD 280-678117/3	Lab Control Sample Dup	101	102
MB 280-677474/5	Method Blank	104	96
MB 280-678117/5	Method Blank	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 280-678352/9
Matrix: Water
Analysis Batch: 678352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/12/24 22:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/12/24 22:01	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/12/24 22:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/L			12/12/24 22:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/12/24 22:01	1
1,1-Dichloroethane	ND		1.0		ug/L			12/12/24 22:01	1
1,1-Dichloroethene	ND		1.0		ug/L			12/12/24 22:01	1
1,1-Dichloropropene	ND		1.0		ug/L			12/12/24 22:01	1
1,2,3-Trichlorobenzene	ND		4.0		ug/L			12/12/24 22:01	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/12/24 22:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/12/24 22:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/12/24 22:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/12/24 22:01	1
1,2-Dichloroethane	ND		1.0		ug/L			12/12/24 22:01	1
1,2-Dichloroethene, Total	ND		1.0		ug/L			12/12/24 22:01	1
1,2-Dichloropropane	ND		1.0		ug/L			12/12/24 22:01	1
1,3,5-Trichlorobenzene	ND		5.0		ug/L			12/12/24 22:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/12/24 22:01	1
1,3-Dichloropropane	ND		1.0		ug/L			12/12/24 22:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/12/24 22:01	1
1,4-Dioxane	ND		40		ug/L			12/12/24 22:01	1
2,2-Dichloropropane	ND		1.0		ug/L			12/12/24 22:01	1
2-Butanone (MEK)	ND		10		ug/L			12/12/24 22:01	1
o-Chlorotoluene	ND		1.0		ug/L			12/12/24 22:01	1
2-Hexanone	ND		5.0		ug/L			12/12/24 22:01	1
Butyl alcohol, tert-	ND		10		ug/L			12/12/24 22:01	1
p-Chlorotoluene	ND		1.0		ug/L			12/12/24 22:01	1
p-Cymene	ND		1.0		ug/L			12/12/24 22:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/12/24 22:01	1
Acetone	ND		15		ug/L			12/12/24 22:01	1
Acetonitrile	ND		30		ug/L			12/12/24 22:01	1
Acrolein	ND		20		ug/L			12/12/24 22:01	1
Acrylonitrile	ND		20		ug/L			12/12/24 22:01	1
Benzene	ND		1.0		ug/L			12/12/24 22:01	1
Bromobenzene	ND		1.0		ug/L			12/12/24 22:01	1
Bromoform	ND		2.0		ug/L			12/12/24 22:01	1
Bromomethane	ND		5.0		ug/L			12/12/24 22:01	1
Carbon disulfide	ND		2.0		ug/L			12/12/24 22:01	1
Carbon tetrachloride	ND		1.0		ug/L			12/12/24 22:01	1
Chlorobenzene	ND		1.0		ug/L			12/12/24 22:01	1
Bromochloromethane	ND		1.0		ug/L			12/12/24 22:01	1
Dibromochloromethane	ND		1.0		ug/L			12/12/24 22:01	1
Chloroethane	ND		2.0		ug/L			12/12/24 22:01	1
Chloroform	ND		1.0		ug/L			12/12/24 22:01	1
Chloromethane	ND		2.0		ug/L			12/12/24 22:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/12/24 22:01	1

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-200191-1

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

Lab Sample ID: MB 280-678352/9
Matrix: Water
Analysis Batch: 678352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0		ug/L			12/12/24 22:01	1
Dibromomethane	ND		1.0		ug/L			12/12/24 22:01	1
Bromodichloromethane	ND		1.0		ug/L			12/12/24 22:01	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/12/24 22:01	1
Dichlorofluoromethane	ND		2.0		ug/L			12/12/24 22:01	1
Ethyl acetate	ND		5.0		ug/L			12/12/24 22:01	1
Ethyl ether	ND		2.0		ug/L			12/12/24 22:01	1
Ethylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/12/24 22:01	1
Hexachlorobutadiene	ND		2.0		ug/L			12/12/24 22:01	1
Hexane	ND		2.0		ug/L			12/12/24 22:01	1
Iodomethane	ND		5.0		ug/L			12/12/24 22:01	1
Isobutanol	ND		110		ug/L			12/12/24 22:01	1
Isopropyl ether	ND		10		ug/L			12/12/24 22:01	1
Isopropylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
Methacrylonitrile	ND		15		ug/L			12/12/24 22:01	1
Methyl acetate	ND		5.0		ug/L			12/12/24 22:01	1
Methyl tert-butyl ether	ND		5.0		ug/L			12/12/24 22:01	1
Methylcyclohexane	ND		1.0		ug/L			12/12/24 22:01	1
Methylene Chloride	ND		2.0		ug/L			12/12/24 22:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/12/24 22:01	1
Naphthalene	ND		3.0		ug/L			12/12/24 22:01	1
Butyl alcohol, n-	ND		60		ug/L			12/12/24 22:01	1
n-Butylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
N-Propylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
o-Xylene	ND		1.0		ug/L			12/12/24 22:01	1
sec-Butylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
Tetrachloroethene	ND		1.0		ug/L			12/12/24 22:01	1
Tetrahydrofuran	ND		7.0		ug/L			12/12/24 22:01	1
Toluene	ND		1.0		ug/L			12/12/24 22:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/12/24 22:01	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/12/24 22:01	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/12/24 22:01	1
Trichloroethene	ND		1.0		ug/L			12/12/24 22:01	1
Trichlorofluoromethane	ND		2.0		ug/L			12/12/24 22:01	1
Vinyl acetate	ND		3.0		ug/L			12/12/24 22:01	1
Vinyl chloride	ND		1.0		ug/L			12/12/24 22:01	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/12/24 22:01	1
Styrene	ND		1.0		ug/L			12/12/24 22:01	1
tert-Butylbenzene	ND		1.0		ug/L			12/12/24 22:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			12/12/24 22:01	1
Ethyl tert-butyl ether	ND		5.0		ug/L			12/12/24 22:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*12/12/24 22:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*12/12/24 22:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*12/12/24 22:01*	*1*

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

Lab Sample ID: LCS 280-678352/4
Matrix: Water
Analysis Batch: 678352

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	50.0	56.5		ug/L		113	80 - 124
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	80 - 123
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	74 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6		ug/L		109	73 - 132
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	80 - 120
1,1-Dichloroethane	50.0	50.5		ug/L		101	78 - 121
1,1-Dichloroethene	50.0	52.8		ug/L		106	77 - 121
1,1-Dichloropropene	50.0	50.5		ug/L		101	77 - 123
1,2,3-Trichlorobenzene	50.0	53.8		ug/L		108	65 - 129
1,2,3-Trichloropropane	50.0	51.5		ug/L		103	80 - 120
1,2,4-Trichlorobenzene	50.0	55.8		ug/L		112	74 - 126
1,2,4-Trimethylbenzene	50.0	54.4		ug/L		109	79 - 124
1,2-Dibromo-3-Chloropropane	50.0	57.6		ug/L		115	73 - 128
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	43.6		ug/L		87	71 - 121
1,2-Dichloropropane	50.0	51.2		ug/L		102	78 - 120
1,3,5-Trimethylbenzene	50.0	54.5		ug/L		109	80 - 122
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	80 - 120
1,3-Dichloropropane	50.0	52.5		ug/L		105	77 - 122
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 120
1,4-Dioxane	1000	1040		ug/L		104	46 - 140
2,2-Dichloropropane	50.0	54.8		ug/L		110	75 - 131
2-Butanone (MEK)	200	192		ug/L		96	58 - 135
o-Chlorotoluene	50.0	53.3		ug/L		107	80 - 120
2-Hexanone	200	204		ug/L		102	62 - 137
Butyl alcohol, tert-	500	542		ug/L		108	54 - 140
p-Chlorotoluene	50.0	54.4		ug/L		109	80 - 120
p-Cymene	50.0	55.0		ug/L		110	80 - 122
4-Methyl-2-pentanone (MIBK)	200	201		ug/L		100	66 - 135
Acetone	200	176		ug/L		88	61 - 134
Acrolein	494	459		ug/L		93	31 - 174
Acrylonitrile	500	483		ug/L		97	70 - 126
Benzene	50.0	51.3		ug/L		103	80 - 120
Bromobenzene	50.0	51.8		ug/L		104	80 - 120
Bromoform	50.0	58.3		ug/L		117	79 - 138
Bromomethane	50.0	24.3		ug/L		49	29 - 148
Carbon disulfide	50.0	54.1		ug/L		108	70 - 121
Carbon tetrachloride	50.0	54.9		ug/L		110	79 - 127
Chlorobenzene	50.0	50.8		ug/L		102	80 - 120
Bromochloromethane	50.0	48.9		ug/L		98	80 - 123
Dibromochloromethane	50.0	55.1		ug/L		110	80 - 125
Chloroethane	50.0	50.3		ug/L		101	56 - 141
Chloroform	50.0	49.5		ug/L		99	80 - 120
Chloromethane	50.0	40.6		ug/L		81	56 - 133
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120
Cyclohexane	50.0	51.7		ug/L		103	68 - 125
Dibromomethane	50.0	47.6		ug/L		95	80 - 120
Bromodichloromethane	50.0	49.9		ug/L		100	80 - 123

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

Lab Sample ID: LCS 280-678352/4
Matrix: Water
Analysis Batch: 678352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	50.0	34.9		ug/L		70	47 - 135
Dichlorofluoromethane	50.0	46.8		ug/L		94	63 - 135
Ethyl ether	50.0	50.0		ug/L		100	68 - 132
Ethylbenzene	50.0	51.9		ug/L		104	80 - 120
1,2-Dibromoethane (EDB)	50.0	49.8		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	56.9		ug/L		114	73 - 128
Hexane	50.0	52.4		ug/L		105	55 - 143
Iodomethane	50.0	25.7		ug/L		51	43 - 139
Isobutanol	1250	1200		ug/L		96	46 - 146
Isopropylbenzene	50.0	56.0		ug/L		112	78 - 122
Methyl acetate	100	90.4		ug/L		90	59 - 136
Methyl tert-butyl ether	50.0	49.8		ug/L		100	80 - 120
Methylcyclohexane	50.0	50.6		ug/L		101	64 - 130
Methylene Chloride	50.0	49.2		ug/L		98	78 - 120
m-Xylene & p-Xylene	50.0	52.1		ug/L		104	80 - 120
Naphthalene	50.0	55.2		ug/L		110	60 - 124
n-Butylbenzene	50.0	54.2		ug/L		108	59 - 140
N-Propylbenzene	50.0	53.8		ug/L		108	80 - 123
o-Xylene	50.0	52.2		ug/L		104	80 - 120
sec-Butylbenzene	50.0	54.7		ug/L		109	80 - 123
Tetrachloroethene	50.0	52.4		ug/L		105	80 - 121
Tetrahydrofuran	100	97.4		ug/L		97	62 - 130
Toluene	50.0	51.1		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	79 - 121
trans-1,3-Dichloropropene	50.0	51.0		ug/L		102	80 - 123
trans-1,4-Dichloro-2-butene	50.0	40.2		ug/L		80	51 - 138
Trichloroethene	50.0	51.3		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	49.1		ug/L		98	54 - 144
Vinyl acetate	100	134		ug/L		134	55 - 161
Vinyl chloride	50.0	49.0		ug/L		98	67 - 127
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	76 - 129
Styrene	50.0	53.1		ug/L		106	80 - 120
tert-Butylbenzene	50.0	55.5		ug/L		111	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Lab Sample ID: LCS 280-678352/6
Matrix: Water
Analysis Batch: 678352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trichlorobenzene	25.0	26.5		ug/L		106	50 - 149
Acetonitrile	250	243		ug/L		97	23 - 155
Ethyl acetate	50.0	46.5		ug/L		93	35 - 149
Isopropyl ether	25.0	24.2		ug/L		97	63 - 128

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

Lab Sample ID: LCS 280-678352/6
Matrix: Water
Analysis Batch: 678352

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methacrylonitrile			250	236		ug/L		94	42 - 142		
Butyl alcohol, n-			625	656		ug/L		105	10 - 178		
Tert-amyl methyl ether			25.0	24.6		ug/L		98	53 - 135		
Ethyl tert-butyl ether			25.0	24.3		ug/L		97	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Toluene-d8 (Surr)	*104*		*80 - 125*

Lab Sample ID: LCSD 280-678352/5
Matrix: Water
Analysis Batch: 678352

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			50.0	55.2		ug/L		110	80 - 124	2	20
1,1,1-Trichloroethane			50.0	51.4		ug/L		103	80 - 123	2	20
1,1,2,2-Tetrachloroethane			50.0	50.1		ug/L		100	74 - 123	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.3		ug/L		107	73 - 132	2	23
1,1,2-Trichloroethane			50.0	49.8		ug/L		100	80 - 120	2	20
1,1-Dichloroethane			50.0	50.0		ug/L		100	78 - 121	1	20
1,1-Dichloroethene			50.0	50.1		ug/L		100	77 - 121	5	21
1,1-Dichloropropene			50.0	48.7		ug/L		97	77 - 123	4	20
1,2,3-Trichlorobenzene			50.0	53.3		ug/L		107	65 - 129	1	20
1,2,3-Trichloropropane			50.0	51.5		ug/L		103	80 - 120	0	20
1,2,4-Trichlorobenzene			50.0	55.3		ug/L		111	74 - 126	1	20
1,2,4-Trimethylbenzene			50.0	52.7		ug/L		105	79 - 124	3	20
1,2-Dibromo-3-Chloropropane			50.0	58.2		ug/L		116	73 - 128	1	21
1,2-Dichlorobenzene			50.0	50.6		ug/L		101	80 - 120	3	20
1,2-Dichloroethane			50.0	43.4		ug/L		87	71 - 121	1	20
1,2-Dichloropropane			50.0	49.3		ug/L		99	78 - 120	4	20
1,3,5-Trimethylbenzene			50.0	53.8		ug/L		108	80 - 122	1	20
1,3-Dichlorobenzene			50.0	49.7		ug/L		99	80 - 120	3	20
1,3-Dichloropropane			50.0	51.5		ug/L		103	77 - 122	2	20
1,4-Dichlorobenzene			50.0	50.6		ug/L		101	80 - 120	4	20
1,4-Dioxane			1000	1030		ug/L		103	46 - 140	1	24
2,2-Dichloropropane			50.0	49.7		ug/L		99	75 - 131	10	22
2-Butanone (MEK)			200	188		ug/L		94	58 - 135	2	20
o-Chlorotoluene			50.0	52.9		ug/L		106	80 - 120	1	20
2-Hexanone			200	200		ug/L		100	62 - 137	2	21
Butyl alcohol, tert-			500	553		ug/L		111	54 - 140	2	29
p-Chlorotoluene			50.0	52.8		ug/L		106	80 - 120	3	20
p-Cymene			50.0	53.7		ug/L		107	80 - 122	2	20
4-Methyl-2-pentanone (MIBK)			200	197		ug/L		99	66 - 135	2	20
Acetone			200	173		ug/L		87	61 - 134	2	21
Acrolein			494	438		ug/L		89	31 - 174	5	23
Acrylonitrile			500	484		ug/L		97	70 - 126	0	20
Benzene			50.0	49.9		ug/L		100	80 - 120	3	20

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

Lab Sample ID: LCSD 280-678352/5
Matrix: Water
Analysis Batch: 678352

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromobenzene			50.0	51.8		ug/L		104	80 - 120	0	20
Bromoform			50.0	58.5		ug/L		117	79 - 138	0	20
Bromomethane			50.0	26.4		ug/L		53	29 - 148	8	40
Carbon disulfide			50.0	52.1		ug/L		104	70 - 121	4	20
Carbon tetrachloride			50.0	54.1		ug/L		108	79 - 127	1	20
Chlorobenzene			50.0	48.6		ug/L		97	80 - 120	4	20
Bromochloromethane			50.0	47.1		ug/L		94	80 - 123	4	20
Dibromochloromethane			50.0	54.9		ug/L		110	80 - 125	0	20
Chloroethane			50.0	48.6		ug/L		97	56 - 141	3	30
Chloroform			50.0	48.1		ug/L		96	80 - 120	3	20
Chloromethane			50.0	40.2		ug/L		80	56 - 133	1	20
cis-1,2-Dichloroethene			50.0	49.8		ug/L		100	80 - 120	3	20
Cyclohexane			50.0	50.5		ug/L		101	68 - 125	2	32
Dibromomethane			50.0	46.5		ug/L		93	80 - 120	2	20
Bromodichloromethane			50.0	49.1		ug/L		98	80 - 123	2	20
Dichlorodifluoromethane			50.0	35.6		ug/L		71	47 - 135	2	21
Dichlorofluoromethane			50.0	46.1		ug/L		92	63 - 135	1	21
Ethyl ether			50.0	48.0		ug/L		96	68 - 132	4	20
Ethylbenzene			50.0	51.1		ug/L		102	80 - 120	2	20
1,2-Dibromoethane (EDB)			50.0	48.1		ug/L		96	80 - 120	3	20
Hexachlorobutadiene			50.0	54.9		ug/L		110	73 - 128	4	20
Hexane			50.0	48.6		ug/L		97	55 - 143	7	23
Iodomethane			50.0	27.3		ug/L		55	43 - 139	6	38
Isobutanol			1250	1230		ug/L		98	46 - 146	2	30
Isopropylbenzene			50.0	54.5		ug/L		109	78 - 122	3	20
Methyl acetate			100	87.7		ug/L		88	59 - 136	3	20
Methyl tert-butyl ether			50.0	49.4		ug/L		99	80 - 120	1	20
Methylcyclohexane			50.0	48.9		ug/L		98	64 - 130	3	21
Methylene Chloride			50.0	47.9		ug/L		96	78 - 120	3	20
m-Xylene & p-Xylene			50.0	50.5		ug/L		101	80 - 120	3	20
Naphthalene			50.0	54.0		ug/L		108	60 - 124	2	21
n-Butylbenzene			50.0	52.5		ug/L		105	59 - 140	3	20
N-Propylbenzene			50.0	53.5		ug/L		107	80 - 123	1	20
o-Xylene			50.0	51.1		ug/L		102	80 - 120	2	20
sec-Butylbenzene			50.0	54.7		ug/L		109	80 - 123	0	20
Tetrachloroethene			50.0	50.8		ug/L		102	80 - 121	3	20
Tetrahydrofuran			100	96.6		ug/L		97	62 - 130	1	20
Toluene			50.0	49.1		ug/L		98	80 - 120	4	20
trans-1,2-Dichloroethene			50.0	50.6		ug/L		101	79 - 121	2	20
trans-1,3-Dichloropropene			50.0	50.1		ug/L		100	80 - 123	2	20
trans-1,4-Dichloro-2-butene			50.0	38.9		ug/L		78	51 - 138	3	24
Trichloroethene			50.0	52.1		ug/L		104	80 - 120	2	20
Trichlorofluoromethane			50.0	48.2		ug/L		96	54 - 144	2	28
Vinyl acetate			100	99.9	*1	ug/L		100	55 - 161	29	23
Vinyl chloride			50.0	48.4		ug/L		97	67 - 127	1	25
cis-1,3-Dichloropropene			50.0	51.5		ug/L		103	76 - 129	2	20
Styrene			50.0	52.4		ug/L		105	80 - 120	1	20
tert-Butylbenzene			50.0	53.3		ug/L		107	80 - 120	4	20

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

Lab Sample ID: LCSD 280-678352/5
Matrix: Water
Analysis Batch: 678352

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	100		80 - 125

Lab Sample ID: LCSD 280-678352/7
Matrix: Water
Analysis Batch: 678352

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
1,3,5-Trichlorobenzene			25.0	25.9		ug/L		104	50 - 149	2	20
Acetonitrile			250	243		ug/L		97	23 - 155	0	20
Ethyl acetate			50.0	46.3		ug/L		93	35 - 149	0	20
Isopropyl ether			25.0	23.9		ug/L		96	63 - 128	1	20
Methacrylonitrile			250	239		ug/L		95	42 - 142	1	20
Butyl alcohol, n-			625	662		ug/L		106	10 - 178	1	20
Tert-amyl methyl ether			25.0	24.3		ug/L		97	53 - 135	1	20
Ethyl tert-butyl ether			25.0	24.2		ug/L		97	53 - 137	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Toluene-d8 (Surr)	99		80 - 125

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

Lab Sample ID: MB 280-677474/5
Matrix: Water
Analysis Batch: 677474

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			12/05/24 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 127		12/05/24 13:36	1
Dibromofluoromethane (Surr)	96		77 - 120		12/05/24 13:36	1

Lab Sample ID: LCS 280-677474/1002
Matrix: Water
Analysis Batch: 677474

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			1.00	0.946		ug/L		95	40 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Dibromofluoromethane (Surr)	99		77 - 120

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

Lab Sample ID: LCSD 280-677474/3
Matrix: Water
Analysis Batch: 677474

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
Vinyl chloride			1.00	0.859		ug/L		86	40 - 144	10	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

Lab Sample ID: MB 280-678117/5
Matrix: Water
Analysis Batch: 678117

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			12/11/24 10:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*12/11/24 10:57*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/11/24 10:57*	*1*

Lab Sample ID: LCS 280-678117/1002
Matrix: Water
Analysis Batch: 678117

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			1.00	0.819		ug/L		82	40 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
Dibromofluoromethane (Surr)	*101*		*77 - 120*

Lab Sample ID: LCSD 280-678117/3
Matrix: Water
Analysis Batch: 678117

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
Vinyl chloride			1.00	0.973		ug/L		97	40 - 144	17	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
Dibromofluoromethane (Surr)	*102*		*77 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-200197-A-5-B MS
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 677417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cobalt, Total	ND		1.00	1.01		mg/L		101	82 - 119		
Iron, Total	0.19		10.0	11.0		mg/L		108	75 - 125		

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-200197-A-5-C MSD
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 677417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt, Total	ND		1.00	1.01		mg/L		101	82 - 119	0	20
Iron, Total	0.19		10.0	10.9		mg/L		107	75 - 125	1	20

Lab Sample ID: MB 280-677377/1-A
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	ND		0.20		mg/L		12/04/24 14:53	12/05/24 16:35	1
Iron, Dissolved	ND		0.060		mg/L		12/04/24 14:53	12/05/24 16:35	1
Magnesium, Dissolved	ND		0.050		mg/L		12/04/24 14:53	12/05/24 16:35	1
Potassium, Dissolved	ND		1.0		mg/L		12/04/24 14:53	12/05/24 16:35	1
Sodium, Dissolved	ND		1.0		mg/L		12/04/24 14:53	12/05/24 16:35	1

Lab Sample ID: LCS 280-677377/2-A
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	50.0	53.0		mg/L		106	90 - 111
Iron, Dissolved	10.0	10.7		mg/L		107	89 - 115
Magnesium, Dissolved	50.0	53.0		mg/L		106	90 - 113
Potassium, Dissolved	50.0	53.4		mg/L		107	89 - 114
Sodium, Dissolved	50.0	53.0		mg/L		106	90 - 115

Lab Sample ID: MB 280-677417/1-A
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Total	ND		0.0030		mg/L		12/05/24 08:34	12/05/24 19:05	1
Iron, Total	ND		0.060		mg/L		12/05/24 08:34	12/05/24 19:05	1

Lab Sample ID: LCS 280-677417/2-A
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Total	1.00	1.03		mg/L		103	89 - 111
Iron, Total	10.0	10.8		mg/L		108	89 - 115

Lab Sample ID: 280-200197-A-6-B MS
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 677377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium, Dissolved	61		50.0	116		mg/L		110	75 - 125
Iron, Dissolved	ND		10.0	10.8		mg/L		108	75 - 125
Magnesium, Dissolved	15		50.0	69.0		mg/L		108	75 - 125
Potassium, Dissolved	2.8		50.0	57.3		mg/L		109	76 - 125

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

Lab Sample ID: 280-200197-A-6-B MS
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 677377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium, Dissolved	16		50.0	71.7		mg/L		112	75 - 125

Lab Sample ID: 280-200197-A-6-C MSD
Matrix: Water
Analysis Batch: 677611

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 677377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium, Dissolved	61		50.0	116		mg/L		111	75 - 125	1	20
Iron, Dissolved	ND		10.0	10.9		mg/L		109	75 - 125	1	20
Magnesium, Dissolved	15		50.0	69.4		mg/L		109	75 - 125	1	20
Potassium, Dissolved	2.8		50.0	58.0		mg/L		111	76 - 125	1	20
Sodium, Dissolved	16		50.0	72.5		mg/L		113	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 280-200197-A-5-E MS
Matrix: Water
Analysis Batch: 677632

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 677417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	ND		0.0400	0.0405		mg/L		101	80 - 111
Arsenic, Total	ND		0.0400	0.0402		mg/L		100	92 - 112
Barium, Total	0.063		0.0400	0.107		mg/L		110	92 - 117
Beryllium, Total	ND		0.0400	0.0389		mg/L		97	87 - 118
Cadmium, Total	ND		0.0400	0.0402		mg/L		101	91 - 114
Chromium, Total	ND		0.0400	0.0396		mg/L		97	91 - 114
Copper, Total	0.023		0.0400	0.0619		mg/L		97	89 - 116
Lead, Total	ND		0.0400	0.0397		mg/L		98	95 - 116
Manganese, Total	0.031		0.0400	0.0713		mg/L		100	89 - 119
Nickel, Total	ND		0.0400	0.0394		mg/L		98	92 - 116
Selenium, Total	ND		0.0400	0.0398		mg/L		99	90 - 115
Silver, Total	ND		0.0400	0.0384		mg/L		96	93 - 118
Thallium, Total	ND		0.0400	0.0390		mg/L		97	94 - 115
Vanadium, Total	ND		0.0400	0.0406		mg/L		102	91 - 114
Zinc, Total	0.031		0.0400	0.0706		mg/L		98	86 - 120

Lab Sample ID: 280-200197-A-5-F MSD
Matrix: Water
Analysis Batch: 677632

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 677417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony, Total	ND		0.0400	0.0398		mg/L		99	80 - 111	2	20
Arsenic, Total	ND		0.0400	0.0394		mg/L		99	92 - 112	2	20
Barium, Total	0.063		0.0400	0.104		mg/L		103	92 - 117	3	20
Beryllium, Total	ND		0.0400	0.0381		mg/L		95	87 - 118	2	20
Cadmium, Total	ND		0.0400	0.0396		mg/L		99	91 - 114	1	20
Chromium, Total	ND		0.0400	0.0389		mg/L		95	91 - 114	2	20
Copper, Total	0.023		0.0400	0.0601		mg/L		92	89 - 116	3	20
Lead, Total	ND		0.0400	0.0394		mg/L		97	95 - 116	1	20
Manganese, Total	0.031		0.0400	0.0702		mg/L		97	89 - 119	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-200197-A-5-F MSD
Matrix: Water
Analysis Batch: 677632

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 677417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel, Total	ND		0.0400	0.0384		mg/L		96	92 - 116	2	20
Selenium, Total	ND		0.0400	0.0406		mg/L		101	90 - 115	2	20
Silver, Total	ND		0.0400	0.0377		mg/L		94	93 - 118	2	20
Thallium, Total	ND		0.0400	0.0385		mg/L		96	94 - 115	1	20
Vanadium, Total	ND		0.0400	0.0396		mg/L		99	91 - 114	3	20
Zinc, Total	0.031		0.0400	0.0692		mg/L		95	86 - 120	2	20

Lab Sample ID: MB 280-677377/1-A
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		12/04/24 14:53	12/05/24 12:54	1

Lab Sample ID: LCS 280-677377/11-A
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.0400	0.0392		mg/L		98	85 - 117

Lab Sample ID: MB 280-677417/1-A
Matrix: Water
Analysis Batch: 677632

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 15:51	1
Arsenic, Total	ND		0.0050		mg/L		12/05/24 08:34	12/05/24 15:51	1
Barium, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 15:51	1
Beryllium, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 15:51	1
Cadmium, Total	ND		0.00030		mg/L		12/05/24 08:34	12/05/24 15:51	1
Chromium, Total	ND		0.0030		mg/L		12/05/24 08:34	12/05/24 15:51	1
Copper, Total	ND		0.0020		mg/L		12/05/24 08:34	12/05/24 15:51	1
Lead, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 15:51	1
Manganese, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 15:51	1
Nickel, Total	ND		0.0040		mg/L		12/05/24 08:34	12/05/24 15:51	1
Selenium, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 15:51	1
Silver, Total	ND		0.0020		mg/L		12/05/24 08:34	12/05/24 15:51	1
Thallium, Total	ND		0.0010		mg/L		12/05/24 08:34	12/05/24 15:51	1
Vanadium, Total	ND		0.0020		mg/L		12/05/24 08:34	12/05/24 15:51	1
Zinc, Total	ND		0.0050		mg/L		12/05/24 08:34	12/05/24 15:51	1

Lab Sample ID: LCS 280-677417/23-A
Matrix: Water
Analysis Batch: 677632

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Total	0.0400	0.0390		mg/L		98	85 - 115
Arsenic, Total	0.0400	0.0370		mg/L		92	85 - 117
Barium, Total	0.0400	0.0390		mg/L		98	85 - 118

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-677417/23-A
Matrix: Water
Analysis Batch: 677632

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium, Total	0.0400	0.0402		mg/L		101	80 - 125
Cadmium, Total	0.0400	0.0392		mg/L		98	85 - 115
Chromium, Total	0.0400	0.0385		mg/L		96	84 - 121
Copper, Total	0.0400	0.0380		mg/L		95	85 - 119
Lead, Total	0.0400	0.0394		mg/L		98	85 - 118
Manganese, Total	0.0400	0.0378		mg/L		95	85 - 117
Nickel, Total	0.0400	0.0383		mg/L		96	85 - 119
Selenium, Total	0.0400	0.0377		mg/L		94	77 - 122
Silver, Total	0.0400	0.0369		mg/L		92	85 - 115
Thallium, Total	0.0400	0.0390		mg/L		97	85 - 118
Vanadium, Total	0.0400	0.0394		mg/L		98	85 - 120
Zinc, Total	0.0400	0.0375		mg/L		94	83 - 122

Lab Sample ID: 280-200197-A-6-E MS
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 677377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.013		0.0400	0.0526		mg/L		98	89 - 119

Lab Sample ID: 280-200197-A-6-F MSD
Matrix: Water
Analysis Batch: 677549

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 677377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Dissolved	0.013		0.0400	0.0522		mg/L		98	89 - 119	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-677156/6
Matrix: Water
Analysis Batch: 677156

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			12/03/24 13:08	1
Sulfate	ND		5.0		mg/L			12/03/24 13:08	1

Lab Sample ID: LCS 280-677156/4
Matrix: Water
Analysis Batch: 677156

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	104		mg/L		104	90 - 110
Sulfate	100	102		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-677156/5
Matrix: Water
Analysis Batch: 677156

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
Chloride			100	104		mg/L		104	90 - 110	0	10
Sulfate			100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-677156/3
Matrix: Water
Analysis Batch: 677156

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.74		mg/L		95	50 - 150		
Sulfate			5.00	ND		mg/L		97	50 - 150		

Lab Sample ID: 280-200042-J-1 MS
Matrix: Water
Analysis Batch: 677156

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	6000	E	500	6710	E 4	mg/L		146	80 - 120		
Sulfate	7300	E	500	8070	E 4	mg/L		155	80 - 120		

Lab Sample ID: 280-200042-J-1 MSD
Matrix: Water
Analysis Batch: 677156

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6000	E	500	6700	E 4	mg/L		146	80 - 120	0	20
Sulfate	7300	E	500	8060	E 4	mg/L		154	80 - 120	0	20

Lab Sample ID: 280-200042-J-1 DU
Matrix: Water
Analysis Batch: 677156

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	6000	E		5990	E	mg/L				0.3	15
Sulfate	7300	E		7330	E	mg/L				0.4	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-678205/57
Matrix: Water
Analysis Batch: 678205

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.030		mg/L			12/11/24 13:37	1

Lab Sample ID: LCS 280-678205/58
Matrix: Water
Analysis Batch: 678205

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)			2.51	2.56		mg/L		102	90 - 110		

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 280-200354-B-6 MS
Matrix: Water
Analysis Batch: 678205

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)	ND		1.00	1.01		mg/L		100	90 - 110		

Lab Sample ID: 280-200354-B-6 MSD
Matrix: Water
Analysis Batch: 678205

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	ND		1.00	1.07		mg/L		107	90 - 110	6	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-677706/20
Matrix: Water
Analysis Batch: 677706

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			12/06/24 14:30	1

Lab Sample ID: LCS 280-677706/18
Matrix: Water
Analysis Batch: 677706

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			1.00	1.03		mg/L		103	90 - 110		

Lab Sample ID: LCSD 280-677706/19
Matrix: Water
Analysis Batch: 677706

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
Nitrate Nitrite as N			1.00	1.03		mg/L		103	90 - 110	0	10

Lab Sample ID: 280-200358-A-2 MS
Matrix: Water
Analysis Batch: 677706

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	ND	F2 F1	2.00	2.27	F1	mg/L		114	90 - 110		

Lab Sample ID: 280-200358-A-2 MSD
Matrix: Water
Analysis Batch: 677706

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F2 F1	2.00	2.82	F1 F2	mg/L		141	90 - 110	21	10

Method: 410.4 - COD

Lab Sample ID: MB 280-677455/4
Matrix: Water
Analysis Batch: 677455

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (COD)	ND		10		mg/L			12/05/24 09:09	1

Lab Sample ID: LCS 280-677455/3
Matrix: Water
Analysis Batch: 677455

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)			100	97.7		mg/L		98	90 - 110		

Lab Sample ID: 680-259247-A-4 MS
Matrix: Water
Analysis Batch: 677455

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand (COD)	ND		50.0	53.0		mg/L		106	90 - 110		

Lab Sample ID: 680-259247-A-4 MSD
Matrix: Water
Analysis Batch: 677455

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand (COD)	ND		50.0	52.6		mg/L		105	90 - 110	1	11

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-677506/6
Matrix: Water
Analysis Batch: 677506

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		10		mg/L			12/04/24 19:11	1
Alkalinity, Bicarbonate (As CaCO3)	ND		10		mg/L			12/04/24 19:11	1

Lab Sample ID: LCS 280-677506/4
Matrix: Water
Analysis Batch: 677506

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity, Total (As CaCO3)			200	190		mg/L		95	89 - 110		

Lab Sample ID: LCSD 280-677506/5
Matrix: Water
Analysis Batch: 677506

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
Alkalinity, Total (As CaCO3)			200	194		mg/L		97	89 - 110	2	10

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-200271-B-5 DU
Matrix: Water
Analysis Batch: 677506

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total (As CaCO3)	310			315		mg/L				0.8	10
Alkalinity, Bicarbonate (As CaCO3)	310			315		mg/L				0.8	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-677282/1
Matrix: Water
Analysis Batch: 677282

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0		mg/L			12/04/24 08:45	1

Lab Sample ID: LCS 280-677282/2
Matrix: Water
Analysis Batch: 677282

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)			503	507		mg/L		101	88 - 114		

Lab Sample ID: 280-200187-E-1 DU
Matrix: Water
Analysis Batch: 677282

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	2200			2150		mg/L				0.6	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-677310/1
Matrix: Water
Analysis Batch: 677310

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			12/04/24 09:59	1

Lab Sample ID: LCS 280-677310/2
Matrix: Water
Analysis Batch: 677310

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			501	437		mg/L		87	79 - 114		

Lab Sample ID: 280-200191-1 DU
Matrix: Water
Analysis Batch: 677310

Client Sample ID: L-INF-241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			4.00		mg/L				NC	10

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-678161/68
Matrix: Water
Analysis Batch: 678161

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			12/11/24 08:33	1

Lab Sample ID: LCS 280-678161/67
Matrix: Water
Analysis Batch: 678161

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	25.1		mg/L		100	88 - 112		

Lab Sample ID: 280-199983-C-1 MS
Matrix: Water
Analysis Batch: 678161

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average	1.4		25.0	26.8		mg/L		102	88 - 112		

Lab Sample ID: 280-199983-C-1 MSD
Matrix: Water
Analysis Batch: 678161

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	1.4		25.0	26.7		mg/L		101	88 - 112	0	15

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-677273/5
Matrix: Water
Analysis Batch: 677273

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/04/24 08:06	1

Lab Sample ID: SCB 280-677273/1
Matrix: Water
Analysis Batch: 677273

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

Analyte	SCB Result	SCB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/04/24 08:06	1

Lab Sample ID: USB 280-677273/2
Matrix: Water
Analysis Batch: 677273

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/04/24 08:06	1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: LCS 280-677273/3
Matrix: Water
Analysis Batch: 677273

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	191		mg/L		96	85 - 115		

Lab Sample ID: LCSD 280-677273/4
Matrix: Water
Analysis Batch: 677273

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
Biochemical Oxygen Demand			198	190		mg/L		96	85 - 115	0	20

Lab Sample ID: 280-200215-B-1 DU
Matrix: Water
Analysis Batch: 677273

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	17			18.4		mg/L				6	20

GC/MS VOA

Analysis Batch: 677474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-2	TRIP BLANK	Total/NA	Water	8260D SIM	
MB 280-677474/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 280-677474/1002	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 280-677474/3	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 678117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	8260D SIM	
MB 280-678117/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 280-678117/1002	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 280-678117/3	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 678352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	8260D	
MB 280-678352/9	Method Blank	Total/NA	Water	8260D	
LCS 280-678352/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-678352/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-678352/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-678352/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 677377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Dissolved	Water	3005A	
MB 280-677377/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-677377/11-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-677377/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-200197-A-6-B MS	Matrix Spike	Dissolved	Water	3005A	
280-200197-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
280-200197-A-6-E MS	Matrix Spike	Dissolved	Water	3005A	
280-200197-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 677417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total Recoverable	Water	3005A	
MB 280-677417/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-677417/23-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 280-677417/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-200197-A-5-B MS	Matrix Spike	Total/NA	Water	3005A	
280-200197-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	
280-200197-A-5-E MS	Matrix Spike	Total/NA	Water	3005A	
280-200197-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Analysis Batch: 677549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Dissolved	Water	6020B	677377
MB 280-677377/1-A	Method Blank	Total Recoverable	Water	6020B	677377
LCS 280-677377/11-A	Lab Control Sample	Total Recoverable	Water	6020B	677377
280-200197-A-6-E MS	Matrix Spike	Dissolved	Water	6020B	677377

Metals (Continued)

Analysis Batch: 677549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200197-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	677377

Analysis Batch: 677611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Dissolved	Water	6010D	677377
280-200191-1	L-INF-241202	Total Recoverable	Water	6010D	677417
MB 280-677377/1-A	Method Blank	Total Recoverable	Water	6010D	677377
MB 280-677417/1-A	Method Blank	Total Recoverable	Water	6010D	677417
LCS 280-677377/2-A	Lab Control Sample	Total Recoverable	Water	6010D	677377
LCS 280-677417/2-A	Lab Control Sample	Total Recoverable	Water	6010D	677417
280-200197-A-5-B MS	Matrix Spike	Total/NA	Water	6010D	677417
280-200197-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010D	677417
280-200197-A-6-B MS	Matrix Spike	Dissolved	Water	6010D	677377
280-200197-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	677377

Analysis Batch: 677632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total Recoverable	Water	6020B	677417
MB 280-677417/1-A	Method Blank	Total Recoverable	Water	6020B	677417
LCS 280-677417/23-A	Lab Control Sample	Total Recoverable	Water	6020B	677417
280-200197-A-5-E MS	Matrix Spike	Total/NA	Water	6020B	677417
280-200197-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	677417

Analysis Batch: 677791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Dissolved	Water	6010D	677377

General Chemistry

Analysis Batch: 677156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	300.0	
MB 280-677156/6	Method Blank	Total/NA	Water	300.0	
LCS 280-677156/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-677156/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-677156/3	Lab Control Sample	Total/NA	Water	300.0	
280-200042-J-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-200042-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-200042-J-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 677263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	353.2	

Analysis Batch: 677273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	SM5210B	
MB 280-677273/5	Method Blank	Total/NA	Water	SM5210B	
SCB 280-677273/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-677273/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-677273/3	Lab Control Sample	Total/NA	Water	SM5210B	

General Chemistry (Continued)

Analysis Batch: 677273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-677273/4	Lab Control Sample Dup	Total/NA	Water	SM5210B	
280-200215-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Analysis Batch: 677282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	SM 2540C	
MB 280-677282/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-677282/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-200187-E-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 677310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	SM 2540D	
MB 280-677310/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-677310/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-200191-1 DU	L-INF-241202	Total/NA	Water	SM 2540D	

Analysis Batch: 677455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	410.4	
MB 280-677455/4	Method Blank	Total/NA	Water	410.4	
LCS 280-677455/3	Lab Control Sample	Total/NA	Water	410.4	
680-259247-A-4 MS	Matrix Spike	Total/NA	Water	410.4	
680-259247-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 677506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	SM 2320B	
MB 280-677506/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-677506/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-677506/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-200271-B-5 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 677706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	353.2	
MB 280-677706/20	Method Blank	Total/NA	Water	353.2	
LCS 280-677706/18	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-677706/19	Lab Control Sample Dup	Total/NA	Water	353.2	
280-200358-A-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-200358-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 678161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	SM 5310B	
MB 280-678161/68	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-678161/67	Lab Control Sample	Total/NA	Water	SM 5310B	
280-199983-C-1 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-199983-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

QC Association Summary

Client: Waste Management
Job ID: 280-200191-1
Project/Site: WA02|Olympic View Sanitary LF

General Chemistry

Analysis Batch: 678205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	350.1	
MB 280-678205/57	Method Blank	Total/NA	Water	350.1	
LCS 280-678205/58	Lab Control Sample	Total/NA	Water	350.1	
280-200354-B-6 MS	Matrix Spike	Total/NA	Water	350.1	
280-200354-B-6 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 677430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200191-1	L-INF-241202	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF

Job ID: 280-200191-1

Client Sample ID: L-INF-241202

Date Collected: 12/02/24 12:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	678352	12/13/24 02:51	ETB	EET DEN
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	678117	12/11/24 11:18	GO	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	677377	12/04/24 14:53	SLH	EET DEN
Dissolved	Analysis	6010D		1			677611	12/05/24 16:43	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	677377	12/04/24 14:53	SLH	EET DEN
Dissolved	Analysis	6010D		5			677791	12/06/24 19:12	ADL	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	677417	12/05/24 08:34	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			677611	12/05/24 19:21	NKC	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	677377	12/04/24 14:53	SLH	EET DEN
Dissolved	Analysis	6020B		1			677549	12/05/24 12:59	LMT	EET DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	677417	12/05/24 08:34	SMK	EET DEN
Total Recoverable	Analysis	6020B		1			677632	12/05/24 16:00	LMT	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	677156	12/03/24 15:09	IRC	EET DEN
Total/NA	Analysis	350.1		100	10 mL	10 mL	678205	12/11/24 14:30	LBR	EET DEN
Total/NA	Analysis	353.2		1			677263	12/03/24 20:31	PS1	EET DEN
Total/NA	Analysis	353.2		20	100 mL	100 mL	677706	12/06/24 15:03	AKF	EET DEN
Total/NA	Analysis	410.4		5	2 mL	2 mL	677455	12/05/24 09:09	MF	EET DEN
Total/NA	Analysis	SM 2320B		1			677506	12/04/24 21:20	EL	EET DEN
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	677282	12/04/24 08:45	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	677310	12/04/24 09:59	BRD	EET DEN
Total/NA	Analysis	SM 5310B		5	20 mL	20 mL	678161	12/11/24 12:16	GMW	EET DEN
Total/NA	Analysis	SM5210B		1	25 mL	300 mL	677273	12/04/24 08:06	MF	EET DEN
Total/NA	Analysis	Field Sampling		1			677430	12/02/24 13:00	P1C	EET DEN

Client Sample ID: TRIP BLANK

Date Collected: 12/02/24 00:00
Date Received: 12/03/24 09:25

Lab Sample ID: 280-200191-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	677474	12/05/24 13:57	KJG	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

23 December 2024

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Arvada, CO 80002

RE: Olympic View Sanitary LF (OVSL) w/SCS Engineers (28002692 (280-200191-1))

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
24L0074	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager

Cert# 100006-012

24L0074

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-726585.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Analytical Resources, Inc		Accreditations Required (See note): State - Washington		Job #: 280-200191-1
Address: 4611 South 134th Place, Suite 100, ,	Due Date Requested: 12/19/2024			Preservation Codes: -
City: Tukwila	TAT Requested (days): N/A			
State, Zip: WA, 98168				
Phone: 206-695-6200(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Total Arsenic (ARI))/ Total Arsenic (ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
L-INF-241202 (280-200191-1)	12/2/24	12:00 Pacific	G	Water			X	1	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Natalia C	12-4-24 15:15	Eurofins		12/05/24 0955	ARI
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5°C

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-200191-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	23-Dec-2024 17:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L-INF-241202 (280-200191-1)	24L0074-01	Water	02-Dec-2024 12:00	05-Dec-2024 09:55

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-200191-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	23-Dec-2024 17:43

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers
Project Number: 28002692 (280-200191-1)
Work Order: 24L0074

Sample receipt

Sample(s) as listed on the preceding page were received 05-Dec-2024 09:55 under ARI work order 24L0074. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Metals - EPA Method 6020B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

WORK ORDER

24L0074

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Eurofins - Test America - Denver | **Project Manager:** Shelly Fishel

Project: Olympic View Sanitary LF (OVSL) w/SCS Engineε | **Project Number:** 28002692 (28-200191-1)

Report To:
Eurofins - Test America - Denver
Janice Collins
4955 Yarrow Street
Arvada, CO 80002
Phone: (303) 736-0100
Fax: (303) 431-7171

Invoice To:
Eurofins - Test America - Denver
Accounts Payable
343 W Main St
Leola, PA 17540
Phone :(303) 736-0100
Fax: (303) 431-7171

Date Due: 19-Dec-2024 18:00 (10 day TAT)

Received By: Matthew Daniel | Date Received: 05-Dec-2024 09:55

Logged In By: Sydni Acevedo | Date Logged In: 05-Dec-2024 11:56

Samples Received at: **0.5°C**

Intact, properly signed and dated custody seals attached to outside of coole(s)	No	Custody papers included with the cooler	Yes
Custody papers properly filled out(in, signed, analyses requested, etc)	Yes	Was a temperature blank included in the cooler	No
Was sufficient ice used (if appropriate)	Yes	All bottles sealed in individual plastic bags	No
All bottles arrived in good condition(unbroken)	Yes	All bottle labels complete and legible	Yes
Number of containers listed on COC match number received	Yes	Bottle labels and tags agree with COC	Yes
Correct bottles used for the requested analyses	Yes	All VOC vials free of air bubbles	No
Analyses/bottles require preservation (attach preservation sheet excluding VOC)	Yes	Sufficient amount of sample sent in each bottle	Yes
Sample split at ARI	No		

Preservation Confirmation

Container ID	Container Type	pH
24L0074-01 A	HDPE NM, 500 mL, 1:1 HNO3	>2 FAIL

SA
Preservation Confirmed By

12/05/24
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins Denver
Project Name: Olympic View Services LF
COC No(s): 250-726585.1 NA
Delivered by: Fed-Ex UPS Courier Hand Delivered Other:
Assigned ARI Job No: 24L0074
Tracking No: 020142306421 7611 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) Time 0955 8.5°C Temp Gun ID#: 300970S		
Was a temperature blank included in the cooler?	YES	NO
Were coolers received between 0°- 6° (°C)	YES	NO
Was sufficient ice used (if appropriate)?	NA YES	NO

Cooler Accepted by: MD Date: 12/05/24 Time: 0955

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block N/A Other:

Are any samples that were out of temperature compliance documented in LIMS?		YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: SA Date: 12/05/24 Time: 1156 Labels checked by: SA

** *Notify Project Manager of discrepancies or concerns* **

Additional Notes, Discrepancies, & Resolutions:

By: Date:

WORK ORDER

24L0074

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: Eurofins - Test America - Denver
Project Manager: Shelly Fishel

Project: Olympic View Sanitary LF (OVSL) w/SCS Engine
Project Number: 28002692 (28-200191-1)

Report To:
Eurofins - Test America - Denver
Janice Collins
4955 Yarrow Street
Arvada, CO 80002
Phone: (303) 736-0100
Fax: (303) 431-7171

Invoice To:
Eurofins - Test America - Denver
Accounts Payable
343 W Main St
Leola, PA 17540
Phone :(303) 736-0100
Fax: (303) 431-7171

Date Due: 19-Dec-2024 18:00 (10 day TAT)

Received By: Matthew Daniel
Date Received: 05-Dec-2024 09:55

Logged In By: Sydni Acevedo
Date Logged In: 05-Dec-2024 11:56

Samples Received at: **0.5°C**

Intact, properly signed and dated custody seals attached to outside of cooler(s)	No	Custody papers included with the cooler	Yes
Custody papers properly filled out (in, signed, analyses requested, etc)	Yes	Was a temperature blank included in the cooler	No
Was sufficient ice used (if appropriate)	Yes	All bottles sealed in individual plastic bags	No
All bottles arrived in good condition (unbroken)	Yes	All bottle labels complete and legible	Yes
Number of containers listed on COC match number received	Yes	Bottle labels and tags agree with COC	Yes
Correct bottles used for the requested analyses	Yes	All VOC vials free of air bubbles	No
Analyses/bottles require preservation (attach preservation sheet excluding VOC)	Yes	Sufficient amount of sample sent in each bottle	Yes
Sample split at ARI	No		

Preservation Confirmation

Container ID	Container Type	pH
24L0074-01 A	HDPE NM, 500 mL, 1:1 HNO3	>2 FAIL (1)

SA
Preservation Confirmed By

12/05/24 (2)
Date

preserved to pH <2 with 0.5 mL concentrated HNO3 (1411839) 12/13/24 AG @ 16:19

Reviewed By

Date

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-200191-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	23-Dec-2024 17:43

L-INF-241202 (280-200191-1)
24L0074-01 (Water)

Metals and Metallic Compounds

Method: EPA 6020B — Sampled: 12/02/2024 12:00
Instrument: ICPMS2 Analyst: MCB — Analyzed: 12/20/2024 03:01

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x — Extract ID: 24L0074-01 A 01
Preparation Batch: BML0370 — Sample Size: 100 mL
Prepared: 12/17/2024 — Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic UCT	7440-38-2	50	0.00100	0.00200	0.00602	mg/L	D

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-200191-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	23-Dec-2024 17:43

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BML0370 - EPA 6020B

Instrument: ICPMS2 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BML0370-BLK1)						Prepared: 17-Dec-2024 Analyzed: 19-Dec-2024 18:05						
Arsenic UCT	75a UCT	ND	0.0000200	0.0000400	mg/L							U
LCS (BML0370-BS1)						Prepared: 17-Dec-2024 Analyzed: 19-Dec-2024 18:09						
Arsenic UCT	75a UCT	0.00459	0.0000200	0.0000400	mg/L	0.00500		91.8	80-120			
Duplicate (BML0370-DUP1)			**Source: 24L0074-01**			Prepared: 17-Dec-2024 Analyzed: 20-Dec-2024 03:05						
Arsenic UCT	75a UCT	0.00643	0.00100	0.00200	mg/L		0.00602			6.59	20	D
Matrix Spike (BML0370-MS1)			**Source: 24L0074-01**			Prepared: 17-Dec-2024 Analyzed: 20-Dec-2024 03:10						
Arsenic UCT	75a UCT	0.0100	0.00100	0.00200	mg/L	0.00500	0.00602	80.0	75-125			D

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-200191-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	23-Dec-2024 17:43

Certified Analyses included in this Report

Analyte **Certifications**

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025

Eurofins - Test America - Denver	Project: Olympic View Sanitary LF (OVSL) w/SCS Engineers	
4955 Yarrow Street	Project Number: 28002692 (280-200191-1)	**Reported:**
Arvada CO, 80002	Project Manager: Janice Collins	23-Dec-2024 17:43

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

and Patrick Madej
PMadej@wm.com

Chain of Custody Record

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Client Information	Sampler	Lab PM	Carrier Tracking No(s):	COC No
Client Contact: WM. Matt Frame	Phone:	Collins, Janice S		280-124595-4071.1
Company: Olympic View Transfer Station	PWSID	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page:
Address: 9300 Southwest Barney White Road	Due Date Requested:	Analysis Requested		Job #:
City: Bremerton	TAT Requested (days):			
State, Zip: WA, 98312	Compliance Project: Δ Yes Δ No			
Phone: 206-276-4009	PO #			
Email: Mframe2@wm.com	WO #			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692-Annual OBW-TB/L-INF App I/II -Dec			
Site: Washington	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)	Cl/SO4/Alks/TDS/NO3 (353.2-cad)	Ammonia/NOXT/TOC/COD	6010D/6020B- Dissolved Metals (FF)	6010D/6020B- Total Metals	SM5210B- Biochemical Oxygen Demand (BOD)	SM2540D- Total Suspended Solids	8260C - VOCs (Buffalo)	8260C_SIM - Vinyl chloride (Buffalo)	LL Total Arsenic (direct sub to ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	S	D	D	N	N	A	A	D	X	
L-INF-241202	12/2/24		G	W	4	N	X	X	X	X	X	X	X	X	X		

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	Y - Trizma
	Z - other (specify)

Other:

280-200191 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by	Date/Time: 12/2/24 1315	Company: Aspect	Received by:	Date/Time: 12/3/24 09.25	Company: EET DEN
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: 0.1 IR-1 ABIR-0.2

12/26/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: | | | | |

Sample Point: L-1NF (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: ____

X-Other: ____

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft/msl)	(ft)	(ft/msl)	(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	12:00		7.13	6929	11.1	220	2.9	919	
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
120224	713	6929	111	220	2.9	919	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Yellow Odor: N/A Color: Yellow Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Grab Sample from L-1NF location

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12,02,24	Carmen Iappero		Aspect
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TO SAMPLE RECEIVING
EUROFINS TESTAMER
4955 YARROW ST

ARVADA CO 80002-
(303) 736-0100

eurofins | Environment Testing TestAmerica

2617372

INV:
PO:
REF:
DEPT:

FedEx Express

J244024091002uv

J241023112201uv

TUE - 03 DEC 12:00P
PRIORITY OVERNIGHT

TRK# 0667 8172 5304 2562

XA LAAA

80002
CO-US DEN

280-200191 Waybill

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-200191-1

Login Number: 200191
List Number: 1
Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Madej
Waste Management
2615 Davis Street
San Leandro, California 94577

Generated 1/3/2025 4:19:45 PM

JOB DESCRIPTION

WA02|Olympic View Sanitary LF - Leachate
App III Leachate 3 yr ('18, '21, '24)

JOB NUMBER

280-200531-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

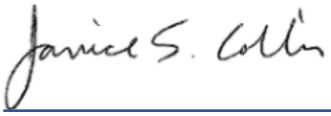
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
1/3/2025 4:19:45 PM

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 280-200531-1 Eurofins Denver

Job Narrative
280-200531-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

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

Receipt
The samples were received on 12/10/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 3.7°C.

GC/MS VOA
Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: L-INF (280-200531-1). The affected sample has a reported pH of 6.

Method 8260D: Supplementary spike compounds were intentionally omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD) due to co-elution issues; therefore, recoveries are unavailable for the following compounds: Acetonitrile, 2-chloro-1,3-butadiene, methacrylonitrile, methyl methacrylate, and propionitrile. Insufficient volume is remaining to prepare a separate MS/MSD for supplementary spike compounds. The associated laboratory control sample (LCS) and LCSD met acceptance criteria for accuracy and precision. The associated samples are: (280-200446-B-3 MS) and (280-200446-C-3 MSD).

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-678752 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (280-200446-B-3 MS) and (280-200446-C-3 MSD).

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: (280-200446-A-3), (280-200446-B-3 MS) and (280-200446-C-3 MSD). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-678752 recovered above the upper control limit for Bromoform (24.1%D) and vinyl acetate (46.2%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: L-INF (280-200531-1), OBWL-TD (280-200531-2), TRIP BLANK (280-200531-3) and (CCV 280-678752/2).

Method 8260D: The following analyte(s) recovered outside control limits for the LCSD associated with analytical batch 280-678752: Iodomethane (42%, 43-139% recovery limits). This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported. The associated samples are: L-INF (280-200531-1), OBWL-TD (280-200531-2), TRIP BLANK (280-200531-3) and (LCSD 280-678752/5).

Method 8260D: The following compounds were outside control limits of 20%D in the continuing calibration verification (CCV) associated with batch 280-678752: Bromomethane (-48.9%D) and iodomethane (-56.5%D). These compounds are considered

poor performers and have recovered within LCS/LCSD limits. The following samples are affected: L-INF (280-200531-1), OBWL-TD (280-200531-2), TRIP BLANK (280-200531-3) and (CCV 280-678752/2).

Method 8260D: The initial calibration verification (ICV) result for batch 280-678752 was outside the lower control limit for acrolein. This compound is considered a poor performer and has recovered within LCS/LCSD limits. The following samples are affected: L-INF (280-200531-1), OBWL-TD (280-200531-2) and TRIP BLANK (280-200531-3).

Method 8260D: In analytical batch 280-678864 for Method 8260, the following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria (pH<2) with a pH of 6 when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: L-INF (280-200531-1).

Method 8260D: For Method 8260, insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-678864. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

GC/MS Semi VOA
Method 8270E: Due to the matrices, the initial volume used for samples L-INF (280-200531-1) in preparation batch 280-678655 deviated from the standard procedure at 50 mL instead of 250 mL. The reporting limits (RLs) have been adjusted proportionately.

Method 8270E: The recovery for Hexachlorocyclopentadiene in the matrix spike (MS) associated with preparation batch 280-678655 and analytical batch 280-678763 was outside calibration range. This is due to a known issue with the manufacturer's stock solution. No sample detections were found for this analyte. (280-200440-F-3-B MS)

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 280-678655 and analytical batch 280-678763 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Herbicides
Method 8151A: The following sample was diluted due to the nature of the sample matrix: L-INF (280-200531-1). Elevated reporting limits (RLs) are provided.

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

PCBs
Method 8082A: The Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: OBWL-TD (280-200531-2). The recovery is within acceptance criteria on the secondary column, therefore data is being reported from the secondary column.

Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-678602. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Pesticides
Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-678602. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8081B: The CCV for samples L-INF (280-200531-1) and (CCV 280-678956/20) in preparation batch 280-678602 and analytical batch 280-678956 recovered outside control limits for Tetrachloro-m-xylene (Surr). Surrogate recovered in control in associated QC and client samples; therefore, the data have been reported.

Method 8081B: The following sample was diluted due to the nature of the sample matrix: L-INF (280-200531-1) at 10x. Elevated

reporting limits (RLs) are provided.

Method 8081B: The following sample required a dilution due to the nature of the sample matrix: L-INF (280-200531-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: The CCV associated with samples L-INF (280-200531-1) and (CCVIS 280-680096/13) in preparation batch 280-678602 and analytical batch 280-680096 recovered outside control limits for DCB Decachlorobiphenyl. Surrogate recovered in control in associated QC and client samples; therefore, the data have been reported.

Method 8081B: The following sample required a dilution due to the nature of the sample matrix: L-INF (280-200531-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: The following sample was diluted due to the nature of the sample matrix: L-INF (280-200531-1) at 20x. Elevated reporting limits (RLs) are provided.

Method 8081B: The initial calibration curve associated with samples L-INF (280-200531-1) and (RL 280-680096/15) in batch 280-680096 was outside acceptance criteria for kepone. Kepone has been identified as a poor performing analyte with this method; therefore, re-analysis was not performed. Per the SOP, an RL standard was analyzed.

Method 8141B: Due to the matrix consisting of a yellow liquid, the initial volumes used for the following samples L-INF (280-200531-1) in preparation batch 280-678121 deviated from the standard procedure: 100 mL. used. The reporting limits (RLs) have been adjusted proportionately.

Method 8141B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-678121. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Metals
Method 6010D - Total Recoverable: The following sample was improperly preserved in the field: L-INF (280-200531-1). Nitric acid was added by the laboratory and the desired pH was achieved.

Method 7470A: The following sample was improperly preserved in the field: L-INF (280-200531-1). Nitric acid was added by the laboratory and the desired pH was achieved.

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

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

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

Detection Summary

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Client Sample ID: L-INF — Lab Sample ID: 280-200531-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.13		0.0040		mg/L	1		6010D	Total Recoverable
Cyanide, Total	0.015		0.010		mg/L	1		9012B	Total/NA
Biochemical Oxygen Demand	40		24		mg/L	1		SM5210B	Total/NA
Specific Conductivity	7562				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	3.3				mg/L	1		Field Sampling	Total/NA
eH	129.1				millivolts	1		Field Sampling	Total/NA
Turbidity	27.2				NTU	1		Field Sampling	Total/NA
Temperature	14.9				Degrees C	1		Field Sampling	Total/NA
pH	7.20				SU	1		Field Sampling	Total/NA

Client Sample ID: OBWL-TD — Lab Sample ID: 280-200531-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Specific Conductivity	150.9				umhos/cm	1		Field Sampling	Total/NA
Dissolved Oxygen	7.2				mg/L	1		Field Sampling	Total/NA
eH	172.8				millivolts	1		Field Sampling	Total/NA
Turbidity	14.2				NTU	1		Field Sampling	Total/NA
Temperature	7.1				Degrees C	1		Field Sampling	Total/NA
pH	6.26				SU	1		Field Sampling	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-200531-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET DEN
8081B	Organochlorine Pesticides (GC)	SW846	EET DEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET DEN
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
8151A	Herbicides (GC)	SW846	ELLE
6010D	Metals (ICP)	SW846	EET DEN
7470A	Mercury (CVAA)	SW846	EET DEN
9012B	Cyanide, Total and/or Amenable	SW846	EET DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
7470A	Preparation, Mercury	SW846	EET DEN
8151A	Extraction (Herbicides)	SW846	ELLE
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Sample Summary

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-200531-1	L-INF	Water	12/09/24 12:20	12/10/24 09:40
280-200531-2	OBWL-TD	Water	12/09/24 10:50	12/10/24 09:40
280-200531-3	TRIP BLANK	Water	12/09/24 10:50	12/10/24 09:40

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

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 16:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/24 16:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 16:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/24 16:45	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/24 16:45	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/24 16:45	1
1,1-Dichloropropene	ND		1.0		ug/L			12/17/24 16:45	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/17/24 16:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/17/24 16:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/17/24 16:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/24 16:45	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/24 16:45	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/24 16:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/17/24 16:45	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/24 16:45	1
2,2-Dichloropropane	ND		1.0		ug/L			12/17/24 16:45	1
2-Butanone (MEK)	ND		10		ug/L			12/17/24 16:45	1
Chloroprene	ND		3.0		ug/L			12/17/24 16:45	1
2-Hexanone	ND		5.0		ug/L			12/17/24 16:45	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			12/17/24 16:45	1
Acetone	ND		15		ug/L			12/17/24 16:45	1
Acetonitrile	ND		30		ug/L			12/17/24 16:45	1
Acrolein	ND		20		ug/L			12/17/24 16:45	1
Acrylonitrile	ND		20		ug/L			12/17/24 16:45	1
Benzene	ND		1.0		ug/L			12/17/24 16:45	1
Bromoform	ND		2.0		ug/L			12/17/24 16:45	1
Bromomethane	ND		5.0		ug/L			12/17/24 16:45	1
Carbon disulfide	ND		2.0		ug/L			12/17/24 16:45	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/24 16:45	1
Chlorobenzene	ND		1.0		ug/L			12/17/24 16:45	1
Bromochloromethane	ND		1.0		ug/L			12/17/24 16:45	1
Dibromochloromethane	ND		1.0		ug/L			12/17/24 16:45	1
Chloroethane	ND		2.0		ug/L			12/17/24 16:45	1
Chloroform	ND		1.0		ug/L			12/17/24 16:45	1
Chloromethane	ND		2.0		ug/L			12/17/24 16:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 16:45	1
Dibromomethane	ND		1.0		ug/L			12/17/24 16:45	1
Bromodichloromethane	ND		1.0		ug/L			12/17/24 16:45	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/17/24 16:45	1
Ethyl methacrylate	ND		3.0		ug/L			12/17/24 16:45	1
Ethylbenzene	ND		1.0		ug/L			12/17/24 16:45	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/24 16:45	1
Iodomethane	ND	*-	5.0		ug/L			12/17/24 16:45	1
Isobutyl alcohol	ND		110		ug/L			12/17/24 16:45	1
Methacrylonitrile	ND		15		ug/L			12/17/24 16:45	1
Methyl methacrylate	ND		4.0		ug/L			12/17/24 16:45	1
Methylene Chloride	ND		2.0		ug/L			12/17/24 16:45	1
Naphthalene	ND		3.0		ug/L			12/17/24 16:45	1
Propionitrile	ND		20		ug/L			12/17/24 16:45	1

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

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0		ug/L			12/17/24 16:45	1
Toluene	ND		1.0		ug/L			12/17/24 16:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 16:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 16:45	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/17/24 16:45	1
Trichloroethene	ND		1.0		ug/L			12/17/24 16:45	1
Trichlorofluoromethane	ND		2.0		ug/L			12/17/24 16:45	1
Vinyl acetate	ND		3.0		ug/L			12/17/24 16:45	1
Vinyl chloride	ND		1.0		ug/L			12/17/24 16:45	1
Xylenes (total)	ND		1.0		ug/L			12/17/24 16:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 16:45	1
Styrene	ND		1.0		ug/L			12/17/24 16:45	1
Allyl chloride	ND		2.0		ug/L			12/17/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*12/17/24 16:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*12/17/24 16:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*12/17/24 16:45*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*12/17/24 16:45*	*1*

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 16:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/24 16:24	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 16:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/24 16:24	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/24 16:24	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/24 16:24	1
1,1-Dichloropropene	ND		1.0		ug/L			12/17/24 16:24	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/17/24 16:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/17/24 16:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/17/24 16:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/24 16:24	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/24 16:24	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/24 16:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/17/24 16:24	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/24 16:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/24 16:24	1
2,2-Dichloropropane	ND		1.0		ug/L			12/17/24 16:24	1
2-Butanone (MEK)	ND		10		ug/L			12/17/24 16:24	1
Chloroprene	ND		3.0		ug/L			12/17/24 16:24	1
2-Hexanone	ND		5.0		ug/L			12/17/24 16:24	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			12/17/24 16:24	1
Acetone	ND		15		ug/L			12/17/24 16:24	1
Acetonitrile	ND		30		ug/L			12/17/24 16:24	1
Acrolein	ND		20		ug/L			12/17/24 16:24	1
Acrylonitrile	ND		20		ug/L			12/17/24 16:24	1
Benzene	ND		1.0		ug/L			12/17/24 16:24	1

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

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		2.0		ug/L			12/17/24 16:24	1
Bromomethane	ND		5.0		ug/L			12/17/24 16:24	1
Carbon disulfide	ND		2.0		ug/L			12/17/24 16:24	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/24 16:24	1
Chlorobenzene	ND		1.0		ug/L			12/17/24 16:24	1
Bromochloromethane	ND		1.0		ug/L			12/17/24 16:24	1
Dibromochloromethane	ND		1.0		ug/L			12/17/24 16:24	1
Chloroethane	ND		2.0		ug/L			12/17/24 16:24	1
Chloroform	ND		1.0		ug/L			12/17/24 16:24	1
Chloromethane	ND		2.0		ug/L			12/17/24 16:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 16:24	1
Dibromomethane	ND		1.0		ug/L			12/17/24 16:24	1
Bromodichloromethane	ND		1.0		ug/L			12/17/24 16:24	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/17/24 16:24	1
Ethyl methacrylate	ND		3.0		ug/L			12/17/24 16:24	1
Ethylbenzene	ND		1.0		ug/L			12/17/24 16:24	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/24 16:24	1
Iodomethane	ND	*-	5.0		ug/L			12/17/24 16:24	1
Isobutyl alcohol	ND		110		ug/L			12/17/24 16:24	1
Methacrylonitrile	ND		15		ug/L			12/17/24 16:24	1
Methyl methacrylate	ND		4.0		ug/L			12/17/24 16:24	1
Methylene Chloride	ND		2.0		ug/L			12/17/24 16:24	1
Naphthalene	ND		3.0		ug/L			12/17/24 16:24	1
Propionitrile	ND		20		ug/L			12/17/24 16:24	1
Tetrachloroethene	ND		1.0		ug/L			12/17/24 16:24	1
Toluene	ND		1.0		ug/L			12/17/24 16:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 16:24	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 16:24	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/17/24 16:24	1
Trichloroethene	ND		1.0		ug/L			12/17/24 16:24	1
Trichlorofluoromethane	ND		2.0		ug/L			12/17/24 16:24	1
Vinyl acetate	ND		3.0		ug/L			12/17/24 16:24	1
Vinyl chloride	ND		1.0		ug/L			12/17/24 16:24	1
Xylenes (total)	ND		1.0		ug/L			12/17/24 16:24	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 16:24	1
Styrene	ND		1.0		ug/L			12/17/24 16:24	1
Allyl chloride	ND		2.0		ug/L			12/17/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*		*12/17/24 16:24*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*12/17/24 16:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*12/17/24 16:24*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*12/17/24 16:24*	*1*

Client Sample ID: TRIP BLANK
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 12:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/24 12:33	1

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

Client Sample ID: TRIP BLANK
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 12:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/24 12:33	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/24 12:33	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/24 12:33	1
1,1-Dichloropropene	ND		1.0		ug/L			12/17/24 12:33	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/17/24 12:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/17/24 12:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/17/24 12:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/24 12:33	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/24 12:33	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/24 12:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/17/24 12:33	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/24 12:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/24 12:33	1
2,2-Dichloropropane	ND		1.0		ug/L			12/17/24 12:33	1
2-Butanone (MEK)	ND		10		ug/L			12/17/24 12:33	1
Chloroprene	ND		3.0		ug/L			12/17/24 12:33	1
2-Hexanone	ND		5.0		ug/L			12/17/24 12:33	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			12/17/24 12:33	1
Acetone	ND		15		ug/L			12/17/24 12:33	1
Acetonitrile	ND		30		ug/L			12/17/24 12:33	1
Acrolein	ND		20		ug/L			12/17/24 12:33	1
Acrylonitrile	ND		20		ug/L			12/17/24 12:33	1
Benzene	ND		1.0		ug/L			12/17/24 12:33	1
Bromoform	ND		2.0		ug/L			12/17/24 12:33	1
Bromomethane	ND		5.0		ug/L			12/17/24 12:33	1
Carbon disulfide	ND		2.0		ug/L			12/17/24 12:33	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/24 12:33	1
Chlorobenzene	ND		1.0		ug/L			12/17/24 12:33	1
Bromochloromethane	ND		1.0		ug/L			12/17/24 12:33	1
Dibromochloromethane	ND		1.0		ug/L			12/17/24 12:33	1
Chloroethane	ND		2.0		ug/L			12/17/24 12:33	1
Chloroform	ND		1.0		ug/L			12/17/24 12:33	1
Chloromethane	ND		2.0		ug/L			12/17/24 12:33	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 12:33	1
Dibromomethane	ND		1.0		ug/L			12/17/24 12:33	1
Bromodichloromethane	ND		1.0		ug/L			12/17/24 12:33	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/17/24 12:33	1
Ethyl methacrylate	ND		3.0		ug/L			12/17/24 12:33	1
Ethylbenzene	ND		1.0		ug/L			12/17/24 12:33	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/24 12:33	1
Iodomethane	ND	*-	5.0		ug/L			12/17/24 12:33	1
Isobutyl alcohol	ND		110		ug/L			12/17/24 12:33	1
Methacrylonitrile	ND		15		ug/L			12/17/24 12:33	1
Methyl methacrylate	ND		4.0		ug/L			12/17/24 12:33	1
Methylene Chloride	ND		2.0		ug/L			12/17/24 12:33	1
Naphthalene	ND		3.0		ug/L			12/17/24 12:33	1
Propionitrile	ND		20		ug/L			12/17/24 12:33	1
Tetrachloroethene	ND		1.0		ug/L			12/17/24 12:33	1

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

Client Sample ID: TRIP BLANK
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			12/17/24 12:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 12:33	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 12:33	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/17/24 12:33	1
Trichloroethene	ND		1.0		ug/L			12/17/24 12:33	1
Trichlorofluoromethane	ND		2.0		ug/L			12/17/24 12:33	1
Vinyl acetate	ND		3.0		ug/L			12/17/24 12:33	1
Vinyl chloride	ND		1.0		ug/L			12/17/24 12:33	1
Xylenes (total)	ND		1.0		ug/L			12/17/24 12:33	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 12:33	1
Styrene	ND		1.0		ug/L			12/17/24 12:33	1
Allyl chloride	ND		2.0		ug/L			12/17/24 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*12/17/24 12:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/17/24 12:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/17/24 12:33*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*12/17/24 12:33*	*1*

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

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			12/18/24 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*		*12/18/24 05:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*12/18/24 05:06*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*12/18/24 05:06*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*12/18/24 05:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
5-Nitro-o-toluidine	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosomethylethylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosodimethylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Methyl methanesulfonate	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosodiethylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Ethyl methanesulfonate	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Phenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Chlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Benzyl alcohol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Methylphenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
3-Methylphenol & 4-Methylphenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosodi-n-propylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosopyrrolidine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Hexachloroethane	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Nitrobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosopiperidine	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
Isophorone	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,4-Dimethylphenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Nitrophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
O,O,O-Triethyl phosphorothioate	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Bis(2-chloroethoxy)methane	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,4-Dichlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
4-Chloroaniline	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,6-Dichlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Hexachloropropene	ND		500		ug/L		12/16/24 16:07	12/17/24 14:53	1
Hexachlorobutadiene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosodi-n-butylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
4-Chloro-3-methylphenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Safrole	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Methylnaphthalene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Isosafrole	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
1,2,4,5-Tetrachlorobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Hexachlorocyclopentadiene	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,4,6-Trichlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,4,5-Trichlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Chloronaphthalene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Nitroaniline	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
1,4-Naphthoquinone	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Dimethyl phthalate	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
1,3-Dinitrobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,6-Dinitrotoluene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Acenaphthylene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
3-Nitroaniline	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Acenaphthene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,4-Dinitrophenol	ND		150		ug/L		12/16/24 16:07	12/17/24 14:53	1
4-Nitrophenol	ND		130		ug/L		12/16/24 16:07	12/17/24 14:53	1
Dibenzofuran	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,4-Dinitrotoluene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Pentachlorobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
1-Naphthylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,3,4,6-Tetrachlorophenol	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Naphthylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Diethyl phthalate	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
4-Chlorophenyl phenyl ether	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Fluorene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
4-Nitroaniline	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
4,6-Dinitro-2-methylphenol	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
N-Nitrosodiphenylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Diphenylamine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Diallate	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
Phenacetin	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
4-Bromophenyl phenyl ether	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Hexachlorobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
4-Aminobiphenyl	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Pronamide	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
Pentachlorophenol	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Pentachloronitrobenzene	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Phenanthrene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Anthracene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Methyl parathion	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Di-n-butyl phthalate	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Methapyrilene	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Isodrin	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Fluoranthene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Pyrene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Butyl benzyl phthalate	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Famphur	ND		500		ug/L		12/16/24 16:07	12/17/24 14:53	1
2-Acetylaminofluorene	ND		500		ug/L		12/16/24 16:07	12/17/24 14:53	1
Bis(2-ethylhexyl) phthalate	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
3,3'-Dichlorobenzidine	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
Benz(a)anthracene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Chrysene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Di-n-octyl phthalate	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Benzo(b)fluoranthene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
Benzo(k)fluoranthene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
7,12-Dimethylbenz(a)anthracene	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
Benzo(a)pyrene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
3-Methylcholanthrene	ND		100		ug/L		12/16/24 16:07	12/17/24 14:53	1
Dibenz(a,h)anthracene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Indeno(1,2,3-cd)pyrene	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Benzo(ghi)perylene	ND		20		ug/L		12/16/24 16:07	12/17/24 14:53	1
bis(2-Chloroethyl) ether	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
o-Toluidine	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Chlorobenzilate	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1
Parathion	ND		250		ug/L		12/16/24 16:07	12/17/24 14:53	1
2,2'-oxybis(1-chloropropane)	ND		50		ug/L		12/16/24 16:07	12/17/24 14:53	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
p-phenylenediamine TIC	*ND*		*ug/L*			*106-50-3*	*12/16/24 16:07*	*12/17/24 14:53*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*52*		*13 - 120*	*12/16/24 16:07*	*12/17/24 14:53*	*1*
Phenol-d5	*37*		*10 - 120*	*12/16/24 16:07*	*12/17/24 14:53*	*1*
Nitrobenzene-d5	*73*		*34 - 120*	*12/16/24 16:07*	*12/17/24 14:53*	*1*
2-Fluorobiphenyl	*71*		*28 - 120*	*12/16/24 16:07*	*12/17/24 14:53*	*1*
2,4,6-Tribromophenol	*108*		*22 - 140*	*12/16/24 16:07*	*12/17/24 14:53*	*1*
Terphenyl-d14	*99*		*55 - 142*	*12/16/24 16:07*	*12/17/24 14:53*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
5-Nitro-o-toluidine	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosomethylethylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosodimethylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Methyl methanesulfonate	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosodiethylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Ethyl methanesulfonate	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Phenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Chlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Benzyl alcohol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Methylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Acetophenone	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosopyrrolidine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Hexachloroethane	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Nitrobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosopiperidine	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
Isophorone	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,4-Dimethylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Nitrophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,4-Dichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
4-Chloroaniline	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,6-Dichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Hexachloropropene	ND		100		ug/L		12/16/24 16:07	12/17/24 15:15	1
Hexachlorobutadiene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
4-Chloro-3-methylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Safrole	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Methylnaphthalene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Isosafrole	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Hexachlorocyclopentadiene	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,4,6-Trichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,4,5-Trichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Chloronaphthalene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Nitroaniline	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
1,4-Naphthoquinone	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Dimethyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
1,3-Dinitrobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,6-Dinitrotoluene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Acenaphthylene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
3-Nitroaniline	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Acenaphthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,4-Dinitrophenol	ND		30		ug/L		12/16/24 16:07	12/17/24 15:15	1
4-Nitrophenol	ND		25		ug/L		12/16/24 16:07	12/17/24 15:15	1
Dibenzofuran	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Pentachlorobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
1-Naphthylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Naphthylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Diethyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Fluorene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
4-Nitroaniline	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
N-Nitrosodiphenylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Diphenylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
1,3,5-Trinitrobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Diallate	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
Phenacetin	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
4-Bromophenyl phenyl ether	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Hexachlorobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
4-Aminobiphenyl	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Pronamide	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
Pentachlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Pentachloronitrobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Phenanthrene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Anthracene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Methyl parathion	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Di-n-butyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Methapyrilene	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Isodrin	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Fluoranthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Pyrene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Butyl benzyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Famphur	ND		100		ug/L		12/16/24 16:07	12/17/24 15:15	1
2-Acetylaminofluorene	ND		100		ug/L		12/16/24 16:07	12/17/24 15:15	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
3,3'-Dichlorobenzidine	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1
Benz(a)anthracene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Chrysene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Di-n-octyl phthalate	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Benzo(b)fluoranthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
Benzo(k)fluoranthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
Benzo(a)pyrene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
3-Methylcholanthrene	ND		20		ug/L		12/16/24 16:07	12/17/24 15:15	1
Dibenz(a,h)anthracene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Benzo(ghi)perylene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 15:15	1
bis(2-Chloroethyl) ether	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
o-Toluidine	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Chlorobenzilate	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1
Parathion	ND		50		ug/L		12/16/24 16:07	12/17/24 15:15	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		12/16/24 16:07	12/17/24 15:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
p-phenylenediamine TIC	*ND*		*ug/L*			*106-50-3*	*12/16/24 16:07*	*12/17/24 15:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*48*		*13 - 120*	*12/16/24 16:07*	*12/17/24 15:15*	*1*
Phenol-d5	*32*		*10 - 120*	*12/16/24 16:07*	*12/17/24 15:15*	*1*
Nitrobenzene-d5	*63*		*34 - 120*	*12/16/24 16:07*	*12/17/24 15:15*	*1*
2-Fluorobiphenyl	*62*		*28 - 120*	*12/16/24 16:07*	*12/17/24 15:15*	*1*
2,4,6-Tribromophenol	*89*		*22 - 140*	*12/16/24 16:07*	*12/17/24 15:15*	*1*
Terphenyl-d14	*98*		*55 - 142*	*12/16/24 16:07*	*12/17/24 15:15*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
4,4'-DDE	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
4,4'-DDT	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
alpha-BHC	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
cis-Chlordane	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
beta-BHC	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
delta-BHC	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Dieldrin	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Endosulfan I	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Endosulfan II	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Endosulfan sulfate	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Endrin	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Endrin aldehyde	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
gamma-BHC (Lindane)	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
trans-Chlordane	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Heptachlor	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Heptachlor epoxide	ND		0.49		ug/L		12/16/24 11:33	12/18/24 17:51	10
Methoxychlor	ND		0.99		ug/L		12/16/24 11:33	12/18/24 17:51	10
Toxaphene	ND		20		ug/L		12/16/24 11:33	12/18/24 17:51	10
Technical Chlordane	ND		4.9		ug/L		12/16/24 11:33	12/18/24 17:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*10 - 157*	*12/16/24 11:33*	*12/18/24 17:51*	*10*
Tetrachloro-m-xylene	*77*		*12 - 129*	*12/16/24 11:33*	*12/18/24 17:51*	*10*

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
4,4'-DDE	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
4,4'-DDT	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
alpha-BHC	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
cis-Chlordane	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
beta-BHC	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
delta-BHC	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Dieldrin	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Endosulfan I	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Endosulfan II	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Endosulfan sulfate	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Endrin	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Endrin aldehyde	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
gamma-BHC (Lindane)	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
trans-Chlordane	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Heptachlor	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Heptachlor epoxide	ND		0.049		ug/L		12/16/24 11:33	12/18/24 01:58	1
Kepone	ND		0.98		ug/L		12/16/24 11:33	12/18/24 01:58	1
Methoxychlor	ND		0.098		ug/L		12/16/24 11:33	12/18/24 01:58	1
Toxaphene	ND		2.0		ug/L		12/16/24 11:33	12/18/24 01:58	1
Technical Chlordane	ND		0.49		ug/L		12/16/24 11:33	12/18/24 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*10 - 157*	*12/16/24 11:33*	*12/18/24 01:58*	*1*
Tetrachloro-m-xylene	*63*		*12 - 129*	*12/16/24 11:33*	*12/18/24 01:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC) - RA

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.99		ug/L		12/16/24 11:33	12/31/24 19:21	20
Kepone	ND		20		ug/L		12/16/24 11:33	12/31/24 19:21	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*	*D*	*10 - 157*	*12/16/24 11:33*	*12/31/24 19:21*	*20*
Tetrachloro-m-xylene	*75*	*D*	*12 - 129*	*12/16/24 11:33*	*12/31/24 19:21*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.99		ug/L		12/16/24 11:33	12/17/24 21:05	1
Aroclor 1221	ND		0.99		ug/L		12/16/24 11:33	12/17/24 21:05	1
Aroclor 1232	ND		0.99		ug/L		12/16/24 11:33	12/17/24 21:05	1
Aroclor 1242	ND		0.99		ug/L		12/16/24 11:33	12/17/24 21:05	1
Aroclor 1248	ND		0.99		ug/L		12/16/24 11:33	12/17/24 21:05	1
Aroclor 1254	ND		0.99		ug/L		12/16/24 11:33	12/17/24 21:05	1
Aroclor 1260	ND		0.99		ug/L		12/16/24 11:33	12/17/24 21:05	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		30 - 136	12/16/24 11:33	12/17/24 21:05	1
Tetrachloro-m-xylene	119		25 - 120	12/16/24 11:33	12/17/24 21:05	1

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.98		ug/L		12/16/24 11:33	12/17/24 21:21	1
Aroclor 1221	ND		0.98		ug/L		12/16/24 11:33	12/17/24 21:21	1
Aroclor 1232	ND		0.98		ug/L		12/16/24 11:33	12/17/24 21:21	1
Aroclor 1242	ND		0.98		ug/L		12/16/24 11:33	12/17/24 21:21	1
Aroclor 1248	ND		0.98		ug/L		12/16/24 11:33	12/17/24 21:21	1
Aroclor 1254	ND		0.98		ug/L		12/16/24 11:33	12/17/24 21:21	1
Aroclor 1260	ND		0.98		ug/L		12/16/24 11:33	12/17/24 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		30 - 136	12/16/24 11:33	12/17/24 21:21	1
Tetrachloro-m-xylene	65		25 - 120	12/16/24 11:33	12/17/24 21:21	1

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		15		ug/L		12/11/24 14:07	12/12/24 18:32	1
Disulfoton	ND		10		ug/L		12/11/24 14:07	12/12/24 18:32	1
Phorate	ND		12		ug/L		12/11/24 14:07	12/12/24 18:32	1
Thionazin	ND		10		ug/L		12/11/24 14:07	12/12/24 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Chlormefos	80		27 - 120	12/11/24 14:07	12/12/24 18:32	1
Triphenylphosphate	95		42 - 120	12/11/24 14:07	12/12/24 18:32	1

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40

Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		12/11/24 14:07	12/12/24 19:11	1
Disulfoton	ND		1.0		ug/L		12/11/24 14:07	12/12/24 19:11	1
Phorate	ND		1.2		ug/L		12/11/24 14:07	12/12/24 19:11	1
Thionazin	ND		1.0		ug/L		12/11/24 14:07	12/12/24 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Chlormefos	78		27 - 120	12/11/24 14:07	12/12/24 19:11	1
Triphenylphosphate	102		42 - 120	12/11/24 14:07	12/12/24 19:11	1

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		51		ug/L		12/13/24 15:32	12/16/24 16:44	50
2,4-D	ND		200		ug/L		12/13/24 15:32	12/16/24 16:44	50
Dinoseb	ND	*1	51		ug/L		12/13/24 15:32	12/16/24 16:44	50
2,4,5-TP (Silvex)	ND		51		ug/L		12/13/24 15:32	12/16/24 16:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*		*34 - 142*	*12/13/24 15:32*	*12/16/24 16:44*	*50*
2,4-Dichlorophenylacetic acid	*99*		*34 - 142*	*12/13/24 15:32*	*12/16/24 16:44*	*50*

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.98		ug/L		12/13/24 15:32	12/16/24 17:12	1
2,4-D	ND		3.9		ug/L		12/13/24 15:32	12/16/24 17:12	1
Dinoseb	ND	*1	0.98		ug/L		12/13/24 15:32	12/16/24 17:12	1
2,4,5-TP (Silvex)	ND		0.98		ug/L		12/13/24 15:32	12/16/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*63*		*34 - 142*	*12/13/24 15:32*	*12/16/24 17:12*	*1*
2,4-Dichlorophenylacetic acid	*53*		*34 - 142*	*12/13/24 15:32*	*12/16/24 17:12*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**0.13**		0.0040		mg/L		12/12/24 08:51	12/12/24 16:48	1
Tin	ND		100		ug/L		12/12/24 08:51	12/12/24 16:48	1

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		12/12/24 08:51	12/12/24 16:52	1
Tin	ND		100		ug/L		12/12/24 08:51	12/12/24 16:52	1

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/13/24 09:20	12/13/24 15:03	1

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/13/24 09:20	12/13/24 15:04	1

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

General Chemistry

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.015**		0.010		mg/L			12/17/24 15:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide (SW846 9034)	ND		4.0		mg/L		12/16/24 16:14	12/16/24 17:27	1
Biochemical Oxygen Demand (SM5210B)	**40**		24		mg/L			12/11/24 09:53	1

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010		mg/L			12/17/24 14:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide (SW846 9034)	ND		4.0		mg/L		12/16/24 16:14	12/16/24 17:27	1
Biochemical Oxygen Demand (SM5210B)	ND		5.0		mg/L			12/11/24 09:53	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: L-INF
Date Collected: 12/09/24 12:20
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	**7562**				umhos/cm			12/09/24 13:20	1
Dissolved Oxygen	**3.3**				mg/L			12/09/24 13:20	1
eH	**129.1**				millivolts			12/09/24 13:20	1
Turbidity	**27.2**				NTU			12/09/24 13:20	1
Temperature	**14.9**				Degrees C			12/09/24 13:20	1
pH	**7.20**				SU			12/09/24 13:20	1

Client Sample ID: OBWL-TD
Date Collected: 12/09/24 10:50
Date Received: 12/10/24 09:40
Lab Sample ID: 280-200531-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	**150.9**				umhos/cm			12/09/24 11:50	1
Dissolved Oxygen	**7.2**				mg/L			12/09/24 11:50	1
eH	**172.8**				millivolts			12/09/24 11:50	1
Turbidity	**14.2**				NTU			12/09/24 11:50	1
Temperature	**7.1**				Degrees C			12/09/24 11:50	1
pH	**6.26**				SU			12/09/24 11:50	1

Surrogate Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Job ID: 280-200531-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(80-125)	(77-120)
280-200446-B-3 MS	Matrix Spike	93	101	100	100
280-200446-C-3 MSD	Matrix Spike Duplicate	92	103	101	98
280-200531-1	L-INF	87	101	97	101
280-200531-1 - RA	L-INF	93	99	98	102
280-200531-2	OBWL-TD	90	101	99	101
280-200531-3	TRIP BLANK	87	100	100	98
LCS 280-678752/4	Lab Control Sample	95	103	101	98
LCS 280-678752/6	Lab Control Sample	90	103	100	100
LCS 280-678864/4	Lab Control Sample	95	102	98	99
LCSD 280-678752/5	Lab Control Sample Dup	91	103	101	98
LCSD 280-678752/7	Lab Control Sample Dup	91	104	99	98
LCSD 280-678864/5	Lab Control Sample Dup	92	99	101	98
MB 280-678752/9	Method Blank	88	100	101	99
MB 280-678864/9	Method Blank	88	101	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(13-120)	(10-120)	(34-120)	(28-120)	(22-140)	(55-142)
280-200440-F-3-B MS	Matrix Spike	40	30	74	76	96	87
280-200440-F-3-C MSD	Matrix Spike Duplicate	34	27	65	70	90	81
280-200531-1	L-INF	52	37	73	71	108	99
280-200531-2	OBWL-TD	48	32	63	62	89	98
LCS 280-678655/2-A	Lab Control Sample	41	30	77	80	98	96
LCSD 280-678655/25-A	Lab Control Sample Dup	40	29	74	75	94	91
MB 280-678655/1-A	Method Blank	38	23	66	55	72	96

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPHL = Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
280-200531-1	L-INF	63	77

Surrogate Legend

Surrogate Summary

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
280-200531-1 - RA	L-INF	66 D	75 D
280-200531-2	OBWL-TD	66	63
LCS 280-678602/2-A	Lab Control Sample	91	60
LCS 280-678602/2-A	Lab Control Sample	83	58
LCS 280-678602/2-A	Lab Control Sample	80	66
LCS 280-678602/6-A	Lab Control Sample	94	67
LCSD 280-678602/3-A	Lab Control Sample Dup	94	62
LCSD 280-678602/3-A	Lab Control Sample Dup	89	59
LCSD 280-678602/3-A	Lab Control Sample Dup	86	67
LCSD 280-678602/7-A	Lab Control Sample Dup	107	62
MB 280-678602/1-A	Method Blank	85	65
MB 280-678602/1-A	Method Blank	81	64
MB 280-678602/1-A	Method Blank	77	74

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
LCS 280-678602/8-A	Lab Control Sample	86	61
LCSD 280-678602/9-A	Lab Control Sample Dup	89	59

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(30-136)	(25-120)
280-200531-1	L-INF	66	119
LCS 280-678602/4-A	Lab Control Sample	79	101
LCSD 280-678602/5-A	Lab Control Sample Dup	92	109
MB 280-678602/1-A	Method Blank	84	113

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(30-136)	(25-120)
280-200531-2	OBWL-TD	79	65

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		CMF1	TPP1
Lab Sample ID	Client Sample ID	(27-120)	(42-120)
280-200531-1	L-INF	80	95
280-200531-2	OBWL-TD	78	102
LCS 280-678121/2-A	Lab Control Sample	86	107
LCSD 280-678121/3-A	Lab Control Sample Dup	84	104
MB 280-678121/1-A	Method Blank	75	94

Surrogate Legend

CMF = Chlormefos

TPP = Triphenylphosphate

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(34-142)	(34-142)
280-200531-1	L-INF	94	99
280-200531-2	OBWL-TD	63	53
LCS 410-585924/2-A	Lab Control Sample	65	58
LCSD 410-585924/3-A	Lab Control Sample Dup	71	64
MB 410-585924/1-A	Method Blank	70	62

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 280-678752/9
Matrix: Water
Analysis Batch: 678752

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 11:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/24 11:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/24 11:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/24 11:07	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/24 11:07	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/24 11:07	1
1,1-Dichloropropene	ND		1.0		ug/L			12/17/24 11:07	1
1,2,3-Trichloropropane	ND		2.5		ug/L			12/17/24 11:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/17/24 11:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/17/24 11:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/24 11:07	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/24 11:07	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/24 11:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/17/24 11:07	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/24 11:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/24 11:07	1
2,2-Dichloropropane	ND		1.0		ug/L			12/17/24 11:07	1
2-Butanone (MEK)	ND		10		ug/L			12/17/24 11:07	1
Chloroprene	ND		3.0		ug/L			12/17/24 11:07	1
2-Hexanone	ND		5.0		ug/L			12/17/24 11:07	1
Methyl isobutyl ketone (MIBK)	ND		5.0		ug/L			12/17/24 11:07	1
Acetone	ND		15		ug/L			12/17/24 11:07	1
Acetonitrile	ND		30		ug/L			12/17/24 11:07	1
Acrolein	ND		20		ug/L			12/17/24 11:07	1
Acrylonitrile	ND		20		ug/L			12/17/24 11:07	1
Benzene	ND		1.0		ug/L			12/17/24 11:07	1
Bromoform	ND		2.0		ug/L			12/17/24 11:07	1
Bromomethane	ND		5.0		ug/L			12/17/24 11:07	1
Carbon disulfide	ND		2.0		ug/L			12/17/24 11:07	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/24 11:07	1
Chlorobenzene	ND		1.0		ug/L			12/17/24 11:07	1
Bromochloromethane	ND		1.0		ug/L			12/17/24 11:07	1
Dibromochloromethane	ND		1.0		ug/L			12/17/24 11:07	1
Chloroethane	ND		2.0		ug/L			12/17/24 11:07	1
Chloroform	ND		1.0		ug/L			12/17/24 11:07	1
Chloromethane	ND		2.0		ug/L			12/17/24 11:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 11:07	1
Dibromomethane	ND		1.0		ug/L			12/17/24 11:07	1
Bromodichloromethane	ND		1.0		ug/L			12/17/24 11:07	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/17/24 11:07	1
Ethyl methacrylate	ND		3.0		ug/L			12/17/24 11:07	1
Ethylbenzene	ND		1.0		ug/L			12/17/24 11:07	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/24 11:07	1
Iodomethane	ND		5.0		ug/L			12/17/24 11:07	1
Isobutyl alcohol	ND		110		ug/L			12/17/24 11:07	1
Methacrylonitrile	ND		15		ug/L			12/17/24 11:07	1
Methyl methacrylate	ND		4.0		ug/L			12/17/24 11:07	1
Methylene Chloride	ND		2.0		ug/L			12/17/24 11:07	1

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

Lab Sample ID: MB 280-678752/9
Matrix: Water
Analysis Batch: 678752

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		3.0		ug/L			12/17/24 11:07	1
Propionitrile	ND		20		ug/L			12/17/24 11:07	1
Tetrachloroethene	ND		1.0		ug/L			12/17/24 11:07	1
Toluene	ND		1.0		ug/L			12/17/24 11:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/24 11:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 11:07	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			12/17/24 11:07	1
Trichloroethene	ND		1.0		ug/L			12/17/24 11:07	1
Trichlorofluoromethane	ND		2.0		ug/L			12/17/24 11:07	1
Vinyl acetate	ND		3.0		ug/L			12/17/24 11:07	1
Vinyl chloride	ND		1.0		ug/L			12/17/24 11:07	1
Xylenes (total)	ND		1.0		ug/L			12/17/24 11:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/24 11:07	1
Styrene	ND		1.0		ug/L			12/17/24 11:07	1
Allyl chloride	ND		2.0		ug/L			12/17/24 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*12/17/24 11:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/17/24 11:07*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*12/17/24 11:07*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/17/24 11:07*	*1*

Lab Sample ID: LCS 280-678752/4
Matrix: Water
Analysis Batch: 678752

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	50.0	58.4		ug/L		117	80 - 124
1,1,1-Trichloroethane	50.0	52.2		ug/L		104	80 - 123
1,1,2,2-Tetrachloroethane	50.0	55.2		ug/L		110	74 - 123
1,1,2-Trichloroethane	50.0	53.5		ug/L		107	80 - 120
1,1-Dichloroethane	50.0	50.9		ug/L		102	78 - 121
1,1-Dichloroethene	50.0	49.4		ug/L		99	77 - 121
1,1-Dichloropropene	50.0	49.7		ug/L		99	77 - 123
1,2,3-Trichloropropane	50.0	53.5		ug/L		107	80 - 120
1,2,4-Trichlorobenzene	50.0	55.6		ug/L		111	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	59.2		ug/L		118	73 - 128
1,2-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	45.2		ug/L		90	71 - 121
1,2-Dichloropropane	50.0	52.1		ug/L		104	78 - 120
1,3-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120
1,3-Dichloropropane	50.0	54.0		ug/L		108	77 - 122
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	55.1		ug/L		110	75 - 131
2-Butanone (MEK)	200	206		ug/L		103	58 - 135
2-Hexanone	200	215		ug/L		108	62 - 137
Methyl isobutyl ketone (MIBK)	200	212		ug/L		106	66 - 135
Acetone	200	184		ug/L		92	61 - 134

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

Lab Sample ID: LCS 280-678752/4
Matrix: Water
Analysis Batch: 678752

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	494	482		ug/L		98	31 - 174
Acrylonitrile	500	516		ug/L		103	70 - 126
Benzene	50.0	50.9		ug/L		102	80 - 120
Bromoform	50.0	62.1		ug/L		124	79 - 138
Bromomethane	50.0	25.5		ug/L		51	29 - 148
Carbon disulfide	50.0	48.5		ug/L		97	70 - 121
Carbon tetrachloride	50.0	55.0		ug/L		110	79 - 127
Chlorobenzene	50.0	50.9		ug/L		102	80 - 120
Bromochloromethane	50.0	47.9		ug/L		96	80 - 123
Dibromochloromethane	50.0	58.0		ug/L		116	80 - 125
Chloroethane	50.0	49.1		ug/L		98	56 - 141
Chloroform	50.0	49.7		ug/L		99	80 - 120
Chloromethane	50.0	41.2		ug/L		82	56 - 133
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
Dibromomethane	50.0	47.7		ug/L		95	80 - 120
Bromodichloromethane	50.0	51.8		ug/L		104	80 - 123
Dichlorodifluoromethane	50.0	51.2		ug/L		102	47 - 135
Ethyl methacrylate	50.0	59.7		ug/L		119	80 - 122
Ethylbenzene	50.0	53.0		ug/L		106	80 - 120
1,2-Dibromoethane	50.0	50.6		ug/L		101	80 - 120
Iodomethane	50.0	21.8		ug/L		44	43 - 139
Isobutyl alcohol	1250	1310		ug/L		105	46 - 146
Methylene Chloride	50.0	48.2		ug/L		96	78 - 120
Naphthalene	50.0	54.8		ug/L		110	60 - 124
Tetrachloroethene	50.0	50.8		ug/L		102	80 - 121
Toluene	50.0	50.8		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	79 - 121
trans-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 123
trans-1,4-Dichloro-2-butene	50.0	50.7		ug/L		101	51 - 138
Trichloroethene	50.0	50.0		ug/L		100	80 - 120
Trichlorofluoromethane	50.0	52.3		ug/L		105	54 - 144
Vinyl acetate	100	146		ug/L		146	55 - 161
Vinyl chloride	50.0	50.2		ug/L		100	67 - 127
Xylenes (total)	100	105		ug/L		105	80 - 120
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	76 - 129
Styrene	50.0	53.6		ug/L		107	80 - 120
Allyl chloride	50.0	46.8		ug/L		94	65 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*
Dibromofluoromethane (Surr)	*98*		*77 - 120*

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

Lab Sample ID: LCS 280-678752/6
Matrix: Water
Analysis Batch: 678752

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroprene			25.0	24.6		ug/L		98	47 - 146		
Acetonitrile			250	227		ug/L		91	23 - 155		
Methacrylonitrile			250	241		ug/L		96	42 - 142		
Methyl methacrylate			50.0	53.0		ug/L		106	60 - 133		
Propionitrile			250	250		ug/L		100	45 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*100*		*77 - 120*

Lab Sample ID: LCSD 280-678752/5
Matrix: Water
Analysis Batch: 678752

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			50.0	56.4		ug/L		113	80 - 124	3	20
1,1,1-Trichloroethane			50.0	50.9		ug/L		102	80 - 123	3	20
1,1,2,2-Tetrachloroethane			50.0	54.0		ug/L		108	74 - 123	2	20
1,1,2-Trichloroethane			50.0	51.4		ug/L		103	80 - 120	4	20
1,1-Dichloroethane			50.0	49.5		ug/L		99	78 - 121	3	20
1,1-Dichloroethene			50.0	47.0		ug/L		94	77 - 121	5	21
1,1-Dichloropropene			50.0	47.4		ug/L		95	77 - 123	5	20
1,2,3-Trichloropropane			50.0	52.4		ug/L		105	80 - 120	2	20
1,2,4-Trichlorobenzene			50.0	54.7		ug/L		109	74 - 126	2	20
1,2-Dibromo-3-Chloropropane			50.0	60.1		ug/L		120	73 - 128	1	21
1,2-Dichlorobenzene			50.0	50.8		ug/L		102	80 - 120	2	20
1,2-Dichloroethane			50.0	43.2		ug/L		86	71 - 121	4	20
1,2-Dichloropropane			50.0	50.4		ug/L		101	78 - 120	3	20
1,3-Dichlorobenzene			50.0	49.9		ug/L		100	80 - 120	3	20
1,3-Dichloropropane			50.0	52.8		ug/L		106	77 - 122	2	20
1,4-Dichlorobenzene			50.0	49.6		ug/L		99	80 - 120	4	20
2,2-Dichloropropane			50.0	52.9		ug/L		106	75 - 131	4	22
2-Butanone (MEK)			200	209		ug/L		104	58 - 135	2	20
2-Hexanone			200	216		ug/L		108	62 - 137	0	21
Methyl isobutyl ketone (MIBK)			200	213		ug/L		107	66 - 135	1	20
Acetone			200	187		ug/L		94	61 - 134	2	21
Acrolein			494	479		ug/L		97	31 - 174	1	23
Acrylonitrile			500	518		ug/L		104	70 - 126	0	20
Benzene			50.0	49.6		ug/L		99	80 - 120	3	20
Bromoform			50.0	60.3		ug/L		121	79 - 138	3	20
Bromomethane			50.0	26.6		ug/L		53	29 - 148	4	40
Carbon disulfide			50.0	46.7		ug/L		93	70 - 121	4	20
Carbon tetrachloride			50.0	52.4		ug/L		105	79 - 127	5	20
Chlorobenzene			50.0	49.1		ug/L		98	80 - 120	4	20
Bromochloromethane			50.0	46.3		ug/L		93	80 - 123	3	20
Dibromochloromethane			50.0	56.2		ug/L		112	80 - 125	3	20

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

Lab Sample ID: LCSD 280-678752/5
Matrix: Water
Analysis Batch: 678752

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
Chloroethane	50.0	51.7		ug/L		103	56 - 141	5	30
Chloroform	50.0	48.7		ug/L		97	80 - 120	2	20
Chloromethane	50.0	43.3		ug/L		87	56 - 133	5	20
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120	3	20
Dibromomethane	50.0	46.6		ug/L		93	80 - 120	2	20
Bromodichloromethane	50.0	49.7		ug/L		99	80 - 123	4	20
Dichlorodifluoromethane	50.0	49.7		ug/L		99	47 - 135	3	21
Ethyl methacrylate	50.0	58.6		ug/L		117	80 - 122	2	20
Ethylbenzene	50.0	51.4		ug/L		103	80 - 120	3	20
1,2-Dibromoethane	50.0	49.2		ug/L		98	80 - 120	3	20
Iodomethane	50.0	21.2	*-	ug/L		42	43 - 139	2	38
Isobutyl alcohol	1250	1420		ug/L		114	46 - 146	8	30
Methylene Chloride	50.0	46.6		ug/L		93	78 - 120	3	20
Naphthalene	50.0	55.6		ug/L		111	60 - 124	1	21
Tetrachloroethene	50.0	49.5		ug/L		99	80 - 121	3	20
Toluene	50.0	49.2		ug/L		98	80 - 120	3	20
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	79 - 121	0	20
trans-1,3-Dichloropropene	50.0	51.2		ug/L		102	80 - 123	5	20
trans-1,4-Dichloro-2-butene	50.0	49.0		ug/L		98	51 - 138	3	24
Trichloroethene	50.0	49.2		ug/L		98	80 - 120	2	20
Trichlorofluoromethane	50.0	52.0		ug/L		104	54 - 144	1	28
Vinyl acetate	100	144		ug/L		144	55 - 161	1	23
Vinyl chloride	50.0	51.3		ug/L		103	67 - 127	2	25
Xylenes (total)	100	103		ug/L		103	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	76 - 129	2	20
Styrene	50.0	52.8		ug/L		106	80 - 120	2	20
Allyl chloride	50.0	42.7		ug/L		85	65 - 132	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*
Dibromofluoromethane (Surr)	*98*		*77 - 120*

Lab Sample ID: LCSD 280-678752/7
Matrix: Water
Analysis Batch: 678752

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
Chloroprene	25.0	24.7		ug/L		99	47 - 146	0	20
Acetonitrile	250	247		ug/L		99	23 - 155	8	20
Methacrylonitrile	250	247		ug/L		99	42 - 142	3	20
Methyl methacrylate	50.0	55.3		ug/L		111	60 - 133	4	20
Propionitrile	250	264		ug/L		106	45 - 144	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*

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

Lab Sample ID: LCSD 280-678752/7
Matrix: Water
Analysis Batch: 678752

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*99*		*80 - 125*
Dibromofluoromethane (Surr)	*98*		*77 - 120*

Lab Sample ID: 280-200446-B-3 MS
Matrix: Water
Analysis Batch: 678752

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		1000	1080		ug/L		108	80 - 124
1,1,1-Trichloroethane	ND		1000	998		ug/L		100	80 - 123
1,1,2,2-Tetrachloroethane	ND		1000	1000		ug/L		100	74 - 123
1,1,2-Trichloroethane	ND		1000	988		ug/L		99	80 - 120
1,1-Dichloroethane	49		1000	1010		ug/L		96	78 - 121
1,1-Dichloroethene	38		1000	970		ug/L		93	77 - 121
1,1-Dichloropropene	ND		1000	941		ug/L		94	77 - 123
1,2,3-Trichloropropane	ND		1000	983		ug/L		98	80 - 120
1,2,4-Trichlorobenzene	ND		1000	1030		ug/L		103	74 - 126
1,2-Dibromo-3-Chloropropane	ND		1000	1050		ug/L		105	73 - 128
1,2-Dichlorobenzene	ND		1000	968		ug/L		97	80 - 120
1,2-Dichloroethane	ND		1000	828		ug/L		83	71 - 121
1,2-Dichloropropane	ND		1000	983		ug/L		98	78 - 120
1,3-Dichlorobenzene	ND		1000	941		ug/L		94	80 - 120
1,3-Dichloropropane	ND		1000	1000		ug/L		100	77 - 122
1,4-Dichlorobenzene	ND		1000	963		ug/L		96	80 - 120
2,2-Dichloropropane	ND		1000	887		ug/L		89	75 - 131
2-Butanone (MEK)	ND		4000	3750		ug/L		94	58 - 135
2-Hexanone	ND		4000	3780		ug/L		95	62 - 137
Methyl isobutyl ketone (MIBK)	ND		4000	3810		ug/L		95	66 - 135
Acetone	ND		4000	3390		ug/L		85	61 - 134
Acrolein	ND		9880	9570		ug/L		97	31 - 174
Acrylonitrile	ND		10000	9690		ug/L		97	70 - 126
Benzene	ND		1000	960		ug/L		96	80 - 120
Bromoform	ND		1000	1100		ug/L		110	79 - 138
Bromomethane	ND		1000	383		ug/L		38	29 - 148
Carbon disulfide	ND		1000	901		ug/L		90	70 - 121
Carbon tetrachloride	ND		1000	1030		ug/L		103	79 - 127
Chlorobenzene	ND		1000	949		ug/L		95	80 - 120
Bromochloromethane	ND		1000	905		ug/L		91	80 - 123
Dibromochloromethane	ND		1000	1050		ug/L		105	80 - 125
Chloroethane	ND		1000	872		ug/L		87	56 - 141
Chloroform	ND		1000	959		ug/L		96	80 - 120
Chloromethane	ND		1000	719		ug/L		72	56 - 133
cis-1,2-Dichloroethene	2600	F1	1000	3320	F1	ug/L		75	80 - 120
Dibromomethane	ND		1000	896		ug/L		90	80 - 120
Bromodichloromethane	ND		1000	972		ug/L		97	80 - 123
Dichlorodifluoromethane	ND		1000	869		ug/L		87	47 - 135
Ethyl methacrylate	ND		1000	1080		ug/L		108	80 - 122
Ethylbenzene	ND		1000	1010		ug/L		101	80 - 120

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

Lab Sample ID: 280-200446-B-3 MS
Matrix: Water
Analysis Batch: 678752

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	ND		1000	925		ug/L		92	80 - 120
Iodomethane	ND	F1 *-	1000	336	F1	ug/L		34	43 - 139
Isobutyl alcohol	ND		25000	23700		ug/L		95	46 - 146
Methylene Chloride	ND		1000	918		ug/L		92	78 - 120
Naphthalene	ND		1000	1000		ug/L		100	60 - 124
Tetrachloroethene	ND		1000	956		ug/L		96	80 - 121
Toluene	ND		1000	961		ug/L		96	80 - 120
trans-1,2-Dichloroethene	ND		1000	941		ug/L		93	79 - 121
trans-1,3-Dichloropropene	ND		1000	969		ug/L		97	80 - 123
trans-1,4-Dichloro-2-butene	ND		1000	821		ug/L		82	51 - 138
Trichloroethene	120		1000	1050		ug/L		93	80 - 120
Trichlorofluoromethane	ND		1000	901		ug/L		90	54 - 144
Vinyl acetate	ND		2000	2720		ug/L		136	55 - 161
Vinyl chloride	78		1000	930		ug/L		85	67 - 127
Xylenes (total)	ND		2000	1970		ug/L		99	80 - 120
cis-1,3-Dichloropropene	ND		1000	985		ug/L		98	76 - 129
Styrene	ND		1000	1020		ug/L		102	80 - 120
Allyl chloride	ND		1000	834		ug/L		83	65 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*100*		*77 - 120*

Lab Sample ID: 280-200446-C-3 MSD
Matrix: Water
Analysis Batch: 678752

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		1000	1090		ug/L		109	80 - 124	2	20
1,1,1-Trichloroethane	ND		1000	970		ug/L		97	80 - 123	3	20
1,1,2,2-Tetrachloroethane	ND		1000	1040		ug/L		104	74 - 123	3	20
1,1,2-Trichloroethane	ND		1000	981		ug/L		98	80 - 120	1	20
1,1-Dichloroethane	49		1000	997		ug/L		95	78 - 121	2	20
1,1-Dichloroethene	38		1000	926		ug/L		89	77 - 121	5	21
1,1-Dichloropropene	ND		1000	907		ug/L		91	77 - 123	4	20
1,2,3-Trichloropropane	ND		1000	992		ug/L		99	80 - 120	1	20
1,2,4-Trichlorobenzene	ND		1000	1070		ug/L		107	74 - 126	4	20
1,2-Dibromo-3-Chloropropane	ND		1000	1120		ug/L		112	73 - 128	6	21
1,2-Dichlorobenzene	ND		1000	992		ug/L		99	80 - 120	2	20
1,2-Dichloroethane	ND		1000	851		ug/L		85	71 - 121	3	20
1,2-Dichloropropane	ND		1000	999		ug/L		100	78 - 120	2	20
1,3-Dichlorobenzene	ND		1000	979		ug/L		98	80 - 120	4	20
1,3-Dichloropropane	ND		1000	1010		ug/L		101	77 - 122	0	20
1,4-Dichlorobenzene	ND		1000	997		ug/L		100	80 - 120	3	20
2,2-Dichloropropane	ND		1000	877		ug/L		88	75 - 131	1	22
2-Butanone (MEK)	ND		4000	3780		ug/L		94	58 - 135	1	20

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

Lab Sample ID: 280-200446-C-3 MSD
Matrix: Water
Analysis Batch: 678752

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Hexanone	ND		4000	3820		ug/L		96	62 - 137	1	21
Methyl isobutyl ketone (MIBK)	ND		4000	3860		ug/L		97	66 - 135	1	20
Acetone	ND		4000	3430		ug/L		86	61 - 134	1	21
Acrolein	ND		9880	9590		ug/L		97	31 - 174	0	23
Acrylonitrile	ND		10000	9520		ug/L		95	70 - 126	2	20
Benzene	ND		1000	965		ug/L		96	80 - 120	0	20
Bromoform	ND		1000	1150		ug/L		115	79 - 138	5	20
Bromomethane	ND		1000	467		ug/L		47	29 - 148	20	40
Carbon disulfide	ND		1000	862		ug/L		86	70 - 121	4	20
Carbon tetrachloride	ND		1000	999		ug/L		100	79 - 127	3	20
Chlorobenzene	ND		1000	942		ug/L		94	80 - 120	1	20
Bromochloromethane	ND		1000	898		ug/L		90	80 - 123	1	20
Dibromochloromethane	ND		1000	1070		ug/L		107	80 - 125	2	20
Chloroethane	ND		1000	941		ug/L		94	56 - 141	8	30
Chloroform	ND		1000	940		ug/L		94	80 - 120	2	20
Chloromethane	ND		1000	820		ug/L		82	56 - 133	13	20
cis-1,2-Dichloroethene	2600	F1	1000	3100	F1	ug/L		53	80 - 120	7	20
Dibromomethane	ND		1000	890		ug/L		89	80 - 120	1	20
Bromodichloromethane	ND		1000	990		ug/L		99	80 - 123	2	20
Dichlorodifluoromethane	ND		1000	900		ug/L		90	47 - 135	4	21
Ethyl methacrylate	ND		1000	1100		ug/L		110	80 - 122	2	20
Ethylbenzene	ND		1000	996		ug/L		100	80 - 120	1	20
1,2-Dibromoethane	ND		1000	947		ug/L		95	80 - 120	2	20
Iodomethane	ND	F1 *-	1000	463		ug/L		46	43 - 139	32	38
Isobutyl alcohol	ND		25000	24500		ug/L		98	46 - 146	3	30
Methylene Chloride	ND		1000	927		ug/L		93	78 - 120	1	20
Naphthalene	ND		1000	1080		ug/L		108	60 - 124	7	21
Tetrachloroethene	ND		1000	929		ug/L		93	80 - 121	3	20
Toluene	ND		1000	953		ug/L		95	80 - 120	1	20
trans-1,2-Dichloroethene	ND		1000	922		ug/L		91	79 - 121	2	20
trans-1,3-Dichloropropene	ND		1000	968		ug/L		97	80 - 123	0	20
trans-1,4-Dichloro-2-butene	ND		1000	834		ug/L		83	51 - 138	2	24
Trichloroethene	120		1000	1030		ug/L		91	80 - 120	2	20
Trichlorofluoromethane	ND		1000	964		ug/L		96	54 - 144	7	28
Vinyl acetate	ND		2000	2740		ug/L		137	55 - 161	1	23
Vinyl chloride	78		1000	990		ug/L		91	67 - 127	6	25
Xylenes (total)	ND		2000	1980		ug/L		99	80 - 120	1	20
cis-1,3-Dichloropropene	ND		1000	986		ug/L		99	76 - 129	0	20
Styrene	ND		1000	1020		ug/L		102	80 - 120	0	20
Allyl chloride	ND		1000	819		ug/L		82	65 - 132	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*
Dibromofluoromethane (Surr)	*98*		*77 - 120*

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

Lab Sample ID: MB 280-678864/9
Matrix: Water
Analysis Batch: 678864

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/24 22:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*12/17/24 22:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*12/17/24 22:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*12/17/24 22:03*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*12/17/24 22:03*	*1*

Lab Sample ID: LCS 280-678864/4
Matrix: Water
Analysis Batch: 678864

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dichlorobenzene			50.0	50.3		ug/L		101	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

Lab Sample ID: LCSD 280-678864/5
Matrix: Water
Analysis Batch: 678864

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
1,4-Dichlorobenzene			50.0	51.5		ug/L		103	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*
Dibromofluoromethane (Surr)	*98*		*77 - 120*

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

Lab Sample ID: MB 280-678655/1-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Dimethylaminoazobenzene	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
5-Nitro-o-toluidine	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosomethylethylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosodimethylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Methyl methanesulfonate	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosodiethylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Ethyl methanesulfonate	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1

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

Lab Sample ID: MB 280-678655/1-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Chlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Benzyl alcohol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Methylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
3-Methylphenol & 4-Methylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Acetophenone	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosopyrrolidine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Hexachloroethane	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Nitrobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosopiperidine	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
Isophorone	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,4-Dimethylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Nitrophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
O,O,O-Triethyl phosphorothioate	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,4-Dichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
4-Chloroaniline	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,6-Dichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Hexachloropropene	ND		100		ug/L		12/16/24 16:07	12/17/24 11:39	1
Hexachlorobutadiene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
4-Chloro-3-methylphenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Safrole	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Methylnaphthalene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Isosafrole	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Hexachlorocyclopentadiene	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,4,6-Trichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,4,5-Trichlorophenol	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Chloronaphthalene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Nitroaniline	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
1,4-Naphthoquinone	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Dimethyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
1,3-Dinitrobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,6-Dinitrotoluene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Acenaphthylene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
3-Nitroaniline	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Acenaphthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,4-Dinitrophenol	ND		30		ug/L		12/16/24 16:07	12/17/24 11:39	1
4-Nitrophenol	ND		25		ug/L		12/16/24 16:07	12/17/24 11:39	1
Dibenzofuran	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,4-Dinitrotoluene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Pentachlorobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
1-Naphthylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Naphthylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Diethyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1

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

Lab Sample ID: MB 280-678655/1-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
4-Nitroaniline	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
4,6-Dinitro-2-methylphenol	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
N-Nitrosodiphenylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Diphenylamine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
1,3,5-Trinitrobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Diallate	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
Phenacetin	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
4-Bromophenyl phenyl ether	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Hexachlorobenzene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
4-Aminobiphenyl	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Pronamide	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
Pentachlorophenol	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Pentachloronitrobenzene	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Phenanthrene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Anthracene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Methyl parathion	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Di-n-butyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Methapyrilene	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Isodrin	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Fluoranthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Pyrene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Butyl benzyl phthalate	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Famphur	ND		100		ug/L		12/16/24 16:07	12/17/24 11:39	1
2-Acetylaminofluorene	ND		100		ug/L		12/16/24 16:07	12/17/24 11:39	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
3,3'-Dichlorobenzidine	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
Benz(a)anthracene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Chrysene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Di-n-octyl phthalate	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Benzo(b)fluoranthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
Benzo(k)fluoranthene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
Benzo(a)pyrene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
3-Methylcholanthrene	ND		20		ug/L		12/16/24 16:07	12/17/24 11:39	1
Dibenz(a,h)anthracene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Indeno(1,2,3-cd)pyrene	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Benzo(ghi)perylene	ND		4.0		ug/L		12/16/24 16:07	12/17/24 11:39	1
bis(2-Chloroethyl) ether	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
o-Toluidine	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Chlorobenzilate	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1
Parathion	ND		50		ug/L		12/16/24 16:07	12/17/24 11:39	1
2,2'-oxybis(1-chloropropane)	ND		10		ug/L		12/16/24 16:07	12/17/24 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*38*		*13 - 120*	*12/16/24 16:07*	*12/17/24 11:39*	*1*
Phenol-d5	*23*		*10 - 120*	*12/16/24 16:07*	*12/17/24 11:39*	*1*
Nitrobenzene-d5	*66*		*34 - 120*	*12/16/24 16:07*	*12/17/24 11:39*	*1*

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

Lab Sample ID: MB 280-678655/1-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678655

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		28 - 120	12/16/24 16:07	12/17/24 11:39	1
2,4,6-Tribromophenol	72		22 - 140	12/16/24 16:07	12/17/24 11:39	1
Terphenyl-d14	96		55 - 142	12/16/24 16:07	12/17/24 11:39	1

Lab Sample ID: LCS 280-678655/2-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Dimethylaminoazobenzene	80.0	73.9		ug/L		92	39 - 155
5-Nitro-o-toluidine	80.0	73.4		ug/L		92	45 - 156
N-Nitrosomethylethylamine	80.0	49.6		ug/L		62	16 - 137
N-Nitrosodimethylamine	80.0	40.5		ug/L		51	21 - 120
Methyl methanesulfonate	80.0	46.1		ug/L		58	15 - 120
N-Nitrosodiethylamine	80.0	56.0		ug/L		70	24 - 129
Ethyl methanesulfonate	80.0	58.7		ug/L		73	27 - 134
Phenol	80.0	27.4		ug/L		34	28 - 120
2-Chlorophenol	80.0	55.9		ug/L		70	35 - 120
Benzyl alcohol	80.0	58.9		ug/L		74	35 - 121
2-Methylphenol	80.0	56.2		ug/L		70	49 - 120
3-Methylphenol & 4-Methylphenol	80.0	59.4		ug/L		74	54 - 120
Acetophenone	80.0	67.5		ug/L		84	40 - 120
N-Nitrosodi-n-propylamine	80.0	71.3		ug/L		89	44 - 120
N-Nitrosopyrrolidine	80.0	62.6		ug/L		78	44 - 125
Hexachloroethane	80.0	36.9		ug/L		46	10 - 120
Nitrobenzene	80.0	63.8		ug/L		80	37 - 120
N-Nitrosopiperidine	80.0	67.5		ug/L		84	53 - 120
Isophorone	80.0	72.2		ug/L		90	51 - 120
2,4-Dimethylphenol	80.0	64.3		ug/L		80	49 - 120
2-Nitrophenol	80.0	66.5		ug/L		83	31 - 120
O,O,O-Triethyl phosphorothioate	80.0	64.0		ug/L		80	54 - 123
Bis(2-chloroethoxy)methane	80.0	72.9		ug/L		91	35 - 127
2,4-Dichlorophenol	80.0	68.8		ug/L		86	42 - 120
4-Chloroaniline	80.0	61.5		ug/L		77	33 - 120
2,6-Dichlorophenol	80.0	68.3		ug/L		85	44 - 120
Hexachloropropene	80.0	31.1	J	ug/L		39	23 - 120
Hexachlorobutadiene	80.0	39.8		ug/L		50	10 - 120
N-Nitrosodi-n-butylamine	80.0	77.1		ug/L		96	43 - 157
4-Chloro-3-methylphenol	80.0	74.9		ug/L		94	51 - 120
Safrole	80.0	62.2		ug/L		78	58 - 120
2-Methylnaphthalene	80.0	58.1		ug/L		73	33 - 120
Isosafrole	80.0	65.9		ug/L		82	60 - 120
1,2,4,5-Tetrachlorobenzene	80.0	51.5		ug/L		64	32 - 120
Hexachlorocyclopentadiene	160	171		ug/L		107	10 - 120
2,4,6-Trichlorophenol	80.0	76.0		ug/L		95	44 - 120
2,4,5-Trichlorophenol	80.0	75.3		ug/L		94	52 - 120
2-Chloronaphthalene	80.0	65.0		ug/L		81	43 - 120
2-Nitroaniline	80.0	80.3		ug/L		100	51 - 120

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

Lab Sample ID: LCS 280-678655/2-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Naphthoquinone	80.0	87.3		ug/L		109	59 - 152
Dimethyl phthalate	80.0	76.9		ug/L		96	57 - 121
1,3-Dinitrobenzene	80.0	81.3		ug/L		102	50 - 124
2,6-Dinitrotoluene	80.0	78.2		ug/L		98	33 - 124
Acenaphthylene	80.0	68.3		ug/L		85	50 - 120
3-Nitroaniline	80.0	76.4		ug/L		96	46 - 121
Acenaphthene	80.0	67.1		ug/L		84	48 - 120
2,4-Dinitrophenol	160	166		ug/L		104	11 - 131
4-Nitrophenol	160	67.2		ug/L		42	31 - 120
Dibenzofuran	80.0	68.6		ug/L		86	51 - 120
2,4-Dinitrotoluene	80.0	80.2		ug/L		100	52 - 124
Pentachlorobenzene	80.0	57.4		ug/L		72	43 - 139
1-Naphthylamine	80.0	59.7		ug/L		75	33 - 130
2,3,4,6-Tetrachlorophenol	80.0	82.0		ug/L		102	55 - 136
2-Naphthylamine	80.0	65.9		ug/L		82	36 - 121
Diethyl phthalate	80.0	77.3		ug/L		97	56 - 123
4-Chlorophenyl phenyl ether	80.0	66.1		ug/L		83	52 - 120
Fluorene	80.0	69.9		ug/L		87	53 - 120
4-Nitroaniline	80.0	85.2		ug/L		106	49 - 122
4,6-Dinitro-2-methylphenol	160	166		ug/L		104	37 - 133
N-Nitrosodiphenylamine	80.0	76.0		ug/L		95	54 - 120
Diphenylamine	68.0	65.7		ug/L		97	52 - 120
1,3,5-Trinitrobenzene	80.0	70.6		ug/L		88	33 - 199
Diallate	80.0	73.3		ug/L		92	46 - 145
Phenacetin	80.0	73.2		ug/L		91	54 - 129
4-Bromophenyl phenyl ether	80.0	72.6		ug/L		91	57 - 120
Hexachlorobenzene	80.0	73.0		ug/L		91	56 - 120
4-Aminobiphenyl	80.0	64.7		ug/L		81	19 - 130
Pronamide	80.0	72.1		ug/L		90	53 - 136
Pentachlorophenol	160	150		ug/L		94	42 - 126
Pentachloronitrobenzene	80.0	76.4		ug/L		96	68 - 146
Phenanthrene	80.0	76.5		ug/L		96	56 - 120
Anthracene	80.0	78.1		ug/L		98	56 - 121
Methyl parathion	80.0	82.8		ug/L		104	54 - 151
Di-n-butyl phthalate	80.0	84.6		ug/L		106	52 - 132
Methapyrilene	80.0	36.3	J	ug/L		45	10 - 120
Isodrin	80.0	69.5		ug/L		87	57 - 125
Fluoranthene	80.0	80.5		ug/L		101	54 - 122
Pyrene	80.0	77.9		ug/L		97	54 - 126
Butyl benzyl phthalate	80.0	83.3		ug/L		104	49 - 141
Famphur	160	135		ug/L		85	49 - 150
2-Acetylaminofluorene	80.0	70.0	J	ug/L		87	40 - 152
Bis(2-ethylhexyl) phthalate	80.0	84.9		ug/L		106	40 - 134
3,3'-Dichlorobenzidine	160	141		ug/L		88	42 - 147
Benz(a)anthracene	80.0	78.8		ug/L		99	57 - 127
Chrysene	80.0	74.7		ug/L		93	54 - 123
Di-n-octyl phthalate	80.0	82.2		ug/L		103	33 - 141
Benzo(b)fluoranthene	80.0	85.0		ug/L		106	44 - 134
Benzo(k)fluoranthene	80.0	76.3		ug/L		95	58 - 127

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

Lab Sample ID: LCS 280-678655/2-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678655

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
7,12-Dimethylbenz(a)anthracene			80.0	70.5		ug/L		88	46 - 124		
Benzo(a)pyrene			80.0	79.8		ug/L		100	50 - 120		
3-Methylcholanthrene			80.0	60.9		ug/L		76	51 - 120		
Dibenz(a,h)anthracene			80.0	80.8		ug/L		101	48 - 125		
Indeno(1,2,3-cd)pyrene			80.0	82.6		ug/L		103	38 - 120		
Benzo(ghi)perylene			80.0	80.1		ug/L		100	52 - 120		
bis(2-Chloroethyl) ether			80.0	63.3		ug/L		79	30 - 120		
o-Toluidine			80.0	58.2		ug/L		73	25 - 129		
Chlorobenzilate			80.0	72.8		ug/L		91	55 - 165		
Parathion			80.0	76.3		ug/L		95	60 - 128		
2,2'-oxybis(1-chloropropane)			80.0	63.3		ug/L		79	32 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*41*		*13 - 120*
Phenol-d5	*30*		*10 - 120*
Nitrobenzene-d5	*77*		*34 - 120*
2-Fluorobiphenyl	*80*		*28 - 120*
2,4,6-Tribromophenol	*98*		*22 - 140*
Terphenyl-d14	*96*		*55 - 142*

Lab Sample ID: LCSD 280-678655/25-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678655

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Dimethylaminoazobenzene			80.0	72.1		ug/L		90	39 - 155	3	37
5-Nitro-o-toluidine			80.0	70.4		ug/L		88	45 - 156	4	43
N-Nitrosomethylethylamine			80.0	45.9		ug/L		57	16 - 137	8	65
N-Nitrosodimethylamine			80.0	39.2		ug/L		49	21 - 120	3	63
Methyl methanesulfonate			80.0	43.2		ug/L		54	15 - 120	7	48
N-Nitrosodiethylamine			80.0	53.8		ug/L		67	24 - 129	4	58
Ethyl methanesulfonate			80.0	54.8		ug/L		68	27 - 134	7	55
Phenol			80.0	26.7		ug/L		33	28 - 120	3	40
2-Chlorophenol			80.0	52.6		ug/L		66	35 - 120	6	47
Benzyl alcohol			80.0	54.8		ug/L		69	35 - 121	7	62
2-Methylphenol			80.0	54.3		ug/L		68	49 - 120	3	46
3-Methylphenol & 4-Methylphenol			80.0	56.5		ug/L		71	54 - 120	5	49
Acetophenone			80.0	63.2		ug/L		79	40 - 120	7	47
N-Nitrosodi-n-propylamine			80.0	67.5		ug/L		84	44 - 120	5	47
N-Nitrosopyrrolidine			80.0	58.5		ug/L		73	44 - 125	7	48
Hexachloroethane			80.0	35.3		ug/L		44	10 - 120	5	90
Nitrobenzene			80.0	59.6		ug/L		74	37 - 120	7	50
N-Nitrosopiperidine			80.0	62.6		ug/L		78	53 - 120	8	46
Isophorone			80.0	66.9		ug/L		84	51 - 120	8	47
2,4-Dimethylphenol			80.0	61.6		ug/L		77	49 - 120	4	48
2-Nitrophenol			80.0	63.0		ug/L		79	31 - 120	5	51
O,O,O-Triethyl phosphorothioate			80.0	59.0		ug/L		74	54 - 123	8	47
Bis(2-chloroethoxy)methane			80.0	66.6		ug/L		83	35 - 127	9	48

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

Lab Sample ID: LCSD 280-678655/25-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678655

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dichlorophenol			80.0	65.4		ug/L		82	42 - 120	5	47
4-Chloroaniline			80.0	55.5		ug/L		69	33 - 120	10	78
2,6-Dichlorophenol			80.0	63.7		ug/L		80	44 - 120	7	47
Hexachloropropene			80.0	29.4	J	ug/L		37	23 - 120	6	55
Hexachlorobutadiene			80.0	38.5		ug/L		48	10 - 120	3	56
N-Nitrosodi-n-butylamine			80.0	71.9		ug/L		90	43 - 157	7	46
4-Chloro-3-methylphenol			80.0	70.2		ug/L		88	51 - 120	7	42
Safrole			80.0	58.1		ug/L		73	58 - 120	7	46
2-Methylnaphthalene			80.0	53.6		ug/L		67	33 - 120	8	48
Isosafrole			80.0	61.4		ug/L		77	60 - 120	7	44
1,2,4,5-Tetrachlorobenzene			80.0	48.4		ug/L		61	32 - 120	6	48
Hexachlorocyclopentadiene			160	170		ug/L		106	10 - 120	0	96
2,4,6-Trichlorophenol			80.0	71.3		ug/L		89	44 - 120	6	44
2,4,5-Trichlorophenol			80.0	72.1		ug/L		90	52 - 120	4	40
2-Chloronaphthalene			80.0	61.6		ug/L		77	43 - 120	5	43
2-Nitroaniline			80.0	76.9		ug/L		96	51 - 120	4	41
1,4-Naphthoquinone			80.0	83.2		ug/L		104	59 - 152	5	46
Dimethyl phthalate			80.0	72.8		ug/L		91	57 - 121	5	35
1,3-Dinitrobenzene			80.0	76.6		ug/L		96	50 - 124	6	41
2,6-Dinitrotoluene			80.0	75.4		ug/L		94	33 - 124	4	37
Acenaphthylene			80.0	63.7		ug/L		80	50 - 120	7	40
3-Nitroaniline			80.0	73.1		ug/L		91	46 - 121	4	39
Acenaphthene			80.0	61.8		ug/L		77	48 - 120	8	41
2,4-Dinitrophenol			160	160		ug/L		100	11 - 131	4	45
4-Nitrophenol			160	64.8		ug/L		41	31 - 120	4	29
Dibenzofuran			80.0	63.6		ug/L		80	51 - 120	8	40
2,4-Dinitrotoluene			80.0	78.7		ug/L		98	52 - 124	2	35
Pentachlorobenzene			80.0	52.5		ug/L		66	43 - 139	9	42
1-Naphthylamine			80.0	57.3		ug/L		72	33 - 130	4	50
2,3,4,6-Tetrachlorophenol			80.0	74.9		ug/L		94	55 - 136	9	37
2-Naphthylamine			80.0	62.2		ug/L		78	36 - 121	6	55
Diethyl phthalate			80.0	73.5		ug/L		92	56 - 123	5	32
4-Chlorophenyl phenyl ether			80.0	62.0		ug/L		78	52 - 120	6	40
Fluorene			80.0	65.4		ug/L		82	53 - 120	7	38
4-Nitroaniline			80.0	82.2		ug/L		103	49 - 122	4	121
4,6-Dinitro-2-methylphenol			160	157		ug/L		98	37 - 133	6	35
N-Nitrosodiphenylamine			80.0	72.2		ug/L		90	54 - 120	5	33
Diphenylamine			68.0	61.6		ug/L		91	52 - 120	6	35
1,3,5-Trinitrobenzene			80.0	70.1		ug/L		88	33 - 199	1	25
Diallate			80.0	71.0		ug/L		89	46 - 145	3	35
Phenacetin			80.0	71.4		ug/L		89	54 - 129	2	43
4-Bromophenyl phenyl ether			80.0	67.1		ug/L		84	57 - 120	8	35
Hexachlorobenzene			80.0	69.0		ug/L		86	56 - 120	6	34
4-Aminobiphenyl			80.0	62.9		ug/L		79	19 - 130	3	75
Pronamide			80.0	69.3		ug/L		87	53 - 136	4	35
Pentachlorophenol			160	144		ug/L		90	42 - 126	4	36
Pentachloronitrobenzene			80.0	73.1		ug/L		91	68 - 146	4	33
Phenanthrene			80.0	71.8		ug/L		90	56 - 120	6	33
Anthracene			80.0	73.7		ug/L		92	56 - 121	6	33

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

Lab Sample ID: LCSD 280-678655/25-A
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678655

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl parathion			80.0	81.0		ug/L		101	54 - 151	2	34
Di-n-butyl phthalate			80.0	80.5		ug/L		101	52 - 132	5	35
Methapyrilene			80.0	23.5	J	ug/L		29	10 - 120	43	149
Isodrin			80.0	65.2		ug/L		82	57 - 125	6	34
Fluoranthene			80.0	77.2		ug/L		96	54 - 122	4	32
Pyrene			80.0	74.2		ug/L		93	54 - 126	5	30
Butyl benzyl phthalate			80.0	80.8		ug/L		101	49 - 141	3	35
Famphur			160	142		ug/L		89	49 - 150	5	45
2-Acetylaminofluorene			80.0	69.4	J	ug/L		87	40 - 152	1	38
Bis(2-ethylhexyl) phthalate			80.0	80.6		ug/L		101	40 - 134	5	38
3,3'-Dichlorobenzidine			160	135		ug/L		84	42 - 147	4	35
Benz(a)anthracene			80.0	76.1		ug/L		95	57 - 127	3	31
Chrysene			80.0	70.2		ug/L		88	54 - 123	6	29
Di-n-octyl phthalate			80.0	81.6		ug/L		102	33 - 141	1	38
Benzo(b)fluoranthene			80.0	82.2		ug/L		103	44 - 134	3	39
Benzo(k)fluoranthene			80.0	76.5		ug/L		96	58 - 127	0	32
7,12-Dimethylbenz(a)anthracene			80.0	69.7		ug/L		87	46 - 124	1	37
Benzo(a)pyrene			80.0	77.1		ug/L		96	50 - 120	3	35
3-Methylcholanthrene			80.0	59.7		ug/L		75	51 - 120	2	38
Dibenz(a,h)anthracene			80.0	79.7		ug/L		100	48 - 125	1	37
Indeno(1,2,3-cd)pyrene			80.0	79.8		ug/L		100	38 - 120	3	36
Benzo(ghi)perylene			80.0	78.4		ug/L		98	52 - 120	2	36
bis(2-Chloroethyl) ether			80.0	58.7		ug/L		73	30 - 120	8	48
o-Toluidine			80.0	55.9		ug/L		70	25 - 129	4	82
Chlorobenzilate			80.0	68.8		ug/L		86	55 - 165	6	33
Parathion			80.0	73.6		ug/L		92	60 - 128	4	38
2,2'-oxybis(1-chloropropane)			80.0	60.0		ug/L		75	32 - 120	5	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*40*		*13 - 120*
Phenol-d5	*29*		*10 - 120*
Nitrobenzene-d5	*74*		*34 - 120*
2-Fluorobiphenyl	*75*		*28 - 120*
2,4,6-Tribromophenol	*94*		*22 - 140*
Terphenyl-d14	*91*		*55 - 142*

Lab Sample ID: 280-200440-F-3-B MS
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Dimethylaminoazobenzene	ND		74.3	64.6		ug/L		87	39 - 155
5-Nitro-o-toluidine	ND		74.3	65.9		ug/L		89	45 - 156
N-Nitrosomethylethylamine	ND		74.3	44.9		ug/L		60	16 - 137
N-Nitrosodimethylamine	ND		74.3	37.8		ug/L		51	21 - 120
Methyl methanesulfonate	ND		74.3	39.4		ug/L		53	15 - 120
N-Nitrosodiethylamine	ND		74.3	49.3		ug/L		66	24 - 129
Ethyl methanesulfonate	ND		74.3	51.2		ug/L		69	27 - 134

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

Lab Sample ID: 280-200440-F-3-B MS
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	ND		74.3	27.1		ug/L		36	28 - 120
2-Chlorophenol	ND		74.3	52.6		ug/L		71	35 - 120
Benzyl alcohol	ND		74.3	57.5		ug/L		77	35 - 121
2-Methylphenol	ND		74.3	55.1		ug/L		74	49 - 120
3-Methylphenol & 4-Methylphenol	ND		74.3	57.8		ug/L		78	54 - 120
Acetophenone	ND		74.3	61.8		ug/L		83	40 - 120
N-Nitrosodi-n-propylamine	ND		74.3	66.6		ug/L		90	44 - 120
N-Nitrosopyrrolidine	ND		74.3	55.2		ug/L		74	44 - 125
Hexachloroethane	ND		74.3	38.4		ug/L		52	10 - 120
Nitrobenzene	ND		74.3	57.8		ug/L		78	37 - 120
N-Nitrosopiperidine	ND		74.3	57.8		ug/L		78	53 - 120
Isophorone	ND		74.3	65.0		ug/L		87	51 - 120
2,4-Dimethylphenol	ND		74.3	64.3		ug/L		87	49 - 120
2-Nitrophenol	ND		74.3	61.7		ug/L		83	31 - 120
O,O,O-Triethyl phosphorothioate	ND		74.3	55.6		ug/L		75	54 - 123
Bis(2-chloroethoxy)methane	ND		74.3	64.2		ug/L		86	35 - 127
2,4-Dichlorophenol	ND		74.3	66.4		ug/L		89	42 - 120
4-Chloroaniline	ND		74.3	51.4		ug/L		69	33 - 120
2,6-Dichlorophenol	ND		74.3	64.6		ug/L		87	44 - 120
Hexachloropropene	ND		74.3	ND		ug/L		48	23 - 120
Hexachlorobutadiene	ND		74.3	40.7		ug/L		55	10 - 120
N-Nitrosodi-n-butylamine	ND		74.3	69.9		ug/L		92	43 - 157
4-Chloro-3-methylphenol	ND		74.3	71.5		ug/L		96	51 - 120
Safrole	ND		74.3	54.4		ug/L		73	58 - 120
2-Methylnaphthalene	ND		74.3	54.3		ug/L		73	33 - 120
Isosafrole	ND		74.3	57.2		ug/L		77	60 - 120
1,2,4,5-Tetrachlorobenzene	ND		74.3	49.3		ug/L		66	32 - 120
Hexachlorocyclopentadiene	ND	F1	149	192	E F1	ug/L		129	10 - 120
2,4,6-Trichlorophenol	ND		74.3	72.8		ug/L		98	44 - 120
2,4,5-Trichlorophenol	ND		74.3	73.3		ug/L		99	52 - 120
2-Chloronaphthalene	ND		74.3	59.2		ug/L		80	43 - 120
2-Nitroaniline	ND		74.3	75.8		ug/L		102	51 - 120
1,4-Naphthoquinone	ND		74.3	85.1		ug/L		115	59 - 152
Dimethyl phthalate	ND		74.3	70.0		ug/L		94	57 - 121
1,3-Dinitrobenzene	ND		74.3	73.4		ug/L		99	50 - 124
2,6-Dinitrotoluene	ND		74.3	72.4		ug/L		97	53 - 124
Acenaphthylene	ND		74.3	62.5		ug/L		84	50 - 120
3-Nitroaniline	ND		74.3	72.1		ug/L		97	46 - 121
Acenaphthene	ND		74.3	61.8		ug/L		83	48 - 120
2,4-Dinitrophenol	ND		149	169		ug/L		113	11 - 131
4-Nitrophenol	ND	F2	149	74.3		ug/L		50	31 - 120
Dibenzofuran	ND		74.3	63.6		ug/L		86	51 - 120
2,4-Dinitrotoluene	ND		74.3	75.8		ug/L		102	52 - 124
Pentachlorobenzene	ND		74.3	51.7		ug/L		70	43 - 139
1-Naphthylamine	ND		74.3	35.2		ug/L		47	33 - 130
2,3,4,6-Tetrachlorophenol	ND		74.3	72.1		ug/L		97	55 - 136
2-Naphthylamine	ND		74.3	48.3		ug/L		65	36 - 121
Diethyl phthalate	ND		74.3	73.9		ug/L		100	56 - 123
4-Chlorophenyl phenyl ether	ND		74.3	63.1		ug/L		85	52 - 120

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

Lab Sample ID: 280-200440-F-3-B MS
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	ND		74.3	65.8		ug/L		89	53 - 120
4-Nitroaniline	ND		74.3	77.3		ug/L		104	49 - 122
4,6-Dinitro-2-methylphenol	ND		149	158		ug/L		106	37 - 133
N-Nitrosodiphenylamine	ND		74.3	70.4		ug/L		95	54 - 120
Diphenylamine	ND		63.2	60.3		ug/L		95	52 - 120
1,3,5-Trinitrobenzene	ND		74.3	67.8		ug/L		91	33 - 199
Diallate	ND		74.3	66.5		ug/L		89	46 - 145
Phenacetin	ND		74.3	68.6		ug/L		92	54 - 129
4-Bromophenyl phenyl ether	ND		74.3	67.4		ug/L		91	57 - 120
Hexachlorobenzene	ND		74.3	67.9		ug/L		91	56 - 120
4-Aminobiphenyl	ND		74.3	ND		ug/L		42	19 - 130
Pronamide	ND		74.3	66.9		ug/L		90	53 - 136
Pentachlorophenol	ND		149	159		ug/L		107	42 - 126
Pentachloronitrobenzene	ND		74.3	68.6		ug/L		92	68 - 146
Phenanthrene	ND		74.3	70.9		ug/L		95	56 - 120
Anthracene	ND		74.3	72.2		ug/L		97	56 - 121
Methyl parathion	ND		74.3	76.4		ug/L		103	54 - 151
Di-n-butyl phthalate	ND		74.3	78.9		ug/L		106	52 - 132
Methapyrilene	ND		74.3	71.2		ug/L		96	10 - 120
Isodrin	ND	F1	74.3	41.7	F1	ug/L		56	57 - 125
Fluoranthene	ND		74.3	75.0		ug/L		101	54 - 122
Pyrene	ND		74.3	70.0		ug/L		94	54 - 126
Butyl benzyl phthalate	ND		74.3	75.5		ug/L		102	49 - 141
Famphur	ND	F1	149	ND		ug/L		49	49 - 150
2-Acetylaminofluorene	ND		74.3	ND		ug/L		86	40 - 152
Bis(2-ethylhexyl) phthalate	ND		74.3	80.3		ug/L		108	40 - 134
3,3'-Dichlorobenzidine	ND		149	106		ug/L		71	42 - 147
Benz(a)anthracene	ND		74.3	69.4		ug/L		93	57 - 127
Chrysene	ND		74.3	67.5		ug/L		91	54 - 123
Di-n-octyl phthalate	ND		74.3	81.2		ug/L		109	33 - 141
Benzo(b)fluoranthene	ND		74.3	77.1		ug/L		104	44 - 134
Benzo(k)fluoranthene	ND		74.3	69.7		ug/L		94	58 - 127
7,12-Dimethylbenz(a)anthracene	ND		74.3	59.6		ug/L		80	46 - 124
Benzo(a)pyrene	ND		74.3	72.8		ug/L		98	50 - 120
3-Methylcholanthrene	ND		74.3	53.7		ug/L		72	51 - 120
Dibenz(a,h)anthracene	ND		74.3	75.7		ug/L		102	48 - 125
Indeno(1,2,3-cd)pyrene	ND		74.3	76.2		ug/L		103	38 - 120
Benzo(ghi)perylene	ND		74.3	73.3		ug/L		99	52 - 120
bis(2-Chloroethyl) ether	ND		74.3	58.5		ug/L		79	30 - 120
o-Toluidine	ND		74.3	47.0		ug/L		63	25 - 129
Chlorobenzilate	ND		74.3	63.4		ug/L		85	55 - 165
Parathion	ND		74.3	71.7		ug/L		96	60 - 128
2,2'-oxybis(1-chloropropane)	ND		74.3	59.1		ug/L		80	32 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*40*		*13 - 120*
Phenol-d5	*30*		*10 - 120*
Nitrobenzene-d5	*74*		*34 - 120*

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

Lab Sample ID: 280-200440-F-3-B MS
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 678655

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	76		28 - 120
2,4,6-Tribromophenol	96		22 - 140
Terphenyl-d14	87		55 - 142

Lab Sample ID: 280-200440-F-3-C MSD
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Dimethylaminoazobenzene	ND		74.3	60.1		ug/L		81	39 - 155	7	37
5-Nitro-o-toluidine	ND		74.3	61.0		ug/L		82	45 - 156	8	43
N-Nitrosomethylethylamine	ND		74.3	36.3		ug/L		49	16 - 137	21	65
N-Nitrosodimethylamine	ND		74.3	30.4		ug/L		41	21 - 120	22	63
Methyl methanesulfonate	ND		74.3	34.0		ug/L		46	15 - 120	15	48
N-Nitrosodiethylamine	ND		74.3	41.7		ug/L		56	24 - 129	17	58
Ethyl methanesulfonate	ND		74.3	44.6		ug/L		60	27 - 134	14	55
Phenol	ND		74.3	22.6		ug/L		30	28 - 120	18	40
2-Chlorophenol	ND		74.3	44.3		ug/L		60	35 - 120	17	47
Benzyl alcohol	ND		74.3	47.7		ug/L		64	35 - 121	19	62
2-Methylphenol	ND		74.3	47.8		ug/L		64	49 - 120	14	46
3-Methylphenol & 4-Methylphenol	ND		74.3	49.5		ug/L		67	54 - 120	15	49
Acetophenone	ND		74.3	52.6		ug/L		71	40 - 120	16	47
N-Nitrosodi-n-propylamine	ND		74.3	56.3		ug/L		76	44 - 120	17	47
N-Nitrosopyrrolidine	ND		74.3	48.9		ug/L		66	44 - 125	12	48
Hexachloroethane	ND		74.3	30.7		ug/L		41	10 - 120	22	90
Nitrobenzene	ND		74.3	49.4		ug/L		67	37 - 120	16	50
N-Nitrosopiperidine	ND		74.3	52.2		ug/L		70	53 - 120	10	46
Isophorone	ND		74.3	56.0		ug/L		75	51 - 120	15	47
2,4-Dimethylphenol	ND		74.3	57.2		ug/L		77	49 - 120	12	48
2-Nitrophenol	ND		74.3	53.2		ug/L		72	31 - 120	15	51
O,O,O-Triethyl phosphorothioate	ND		74.3	49.8		ug/L		67	54 - 123	11	47
Bis(2-chloroethoxy)methane	ND		74.3	56.5		ug/L		76	35 - 127	13	48
2,4-Dichlorophenol	ND		74.3	57.9		ug/L		78	42 - 120	14	47
4-Chloroaniline	ND		74.3	45.5		ug/L		61	33 - 120	12	78
2,6-Dichlorophenol	ND		74.3	55.4		ug/L		75	44 - 120	15	47
Hexachloropropene	ND		74.3	ND		ug/L		42	23 - 120	14	55
Hexachlorobutadiene	ND		74.3	34.3		ug/L		46	10 - 120	17	56
N-Nitrosodi-n-butylamine	ND		74.3	63.0		ug/L		83	43 - 157	10	46
4-Chloro-3-methylphenol	ND		74.3	63.8		ug/L		86	51 - 120	11	42
Safrole	ND		74.3	48.6		ug/L		65	58 - 120	11	46
2-Methylnaphthalene	ND		74.3	47.8		ug/L		64	33 - 120	13	48
Isosafrole	ND		74.3	51.7		ug/L		70	60 - 120	10	44
1,2,4,5-Tetrachlorobenzene	ND		74.3	43.9		ug/L		59	32 - 120	12	48
Hexachlorocyclopentadiene	ND	F1	149	163		ug/L		110	10 - 120	17	96
2,4,6-Trichlorophenol	ND		74.3	64.8		ug/L		87	44 - 120	12	44
2,4,5-Trichlorophenol	ND		74.3	66.6		ug/L		90	52 - 120	10	40
2-Chloronaphthalene	ND		74.3	52.5		ug/L		71	43 - 120	12	43
2-Nitroaniline	ND		74.3	66.7		ug/L		90	51 - 120	13	41

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

Lab Sample ID: 280-200440-F-3-C MSD
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Naphthoquinone	ND		74.3	76.1		ug/L		102	59 - 152	11	46
Dimethyl phthalate	ND		74.3	63.1		ug/L		85	57 - 121	10	35
1,3-Dinitrobenzene	ND		74.3	67.3		ug/L		91	50 - 124	9	41
2,6-Dinitrotoluene	ND		74.3	64.7		ug/L		87	53 - 124	11	37
Acenaphthylene	ND		74.3	55.8		ug/L		75	50 - 120	11	40
3-Nitroaniline	ND		74.3	66.2		ug/L		89	46 - 121	9	39
Acenaphthene	ND		74.3	55.5		ug/L		75	48 - 120	11	41
2,4-Dinitrophenol	ND		149	150		ug/L		101	11 - 131	12	45
4-Nitrophenol	ND	F2	149	47.4	F2	ug/L		32	31 - 120	44	29
Dibenzofuran	ND		74.3	57.1		ug/L		77	51 - 120	11	40
2,4-Dinitrotoluene	ND		74.3	68.6		ug/L		92	52 - 124	10	35
Pentachlorobenzene	ND		74.3	47.5		ug/L		64	43 - 139	9	42
1-Naphthylamine	ND		74.3	33.4		ug/L		45	33 - 130	5	50
2,3,4,6-Tetrachlorophenol	ND		74.3	66.6		ug/L		90	55 - 136	8	37
2-Naphthylamine	ND		74.3	45.7		ug/L		61	36 - 121	6	55
Diethyl phthalate	ND		74.3	66.7		ug/L		90	56 - 123	10	32
4-Chlorophenyl phenyl ether	ND		74.3	56.2		ug/L		76	52 - 120	12	40
Fluorene	ND		74.3	58.1		ug/L		78	53 - 120	12	38
4-Nitroaniline	ND		74.3	70.1		ug/L		94	49 - 122	10	121
4,6-Dinitro-2-methylphenol	ND		149	141		ug/L		95	37 - 133	12	35
N-Nitrosodiphenylamine	ND		74.3	63.1		ug/L		85	54 - 120	11	33
Diphenylamine	ND		63.2	54.1		ug/L		86	52 - 120	11	35
1,3,5-Trinitrobenzene	ND		74.3	64.0		ug/L		86	33 - 199	6	25
Diallate	ND		74.3	61.9		ug/L		83	46 - 145	7	35
Phenacetin	ND		74.3	64.1		ug/L		86	54 - 129	7	43
4-Bromophenyl phenyl ether	ND		74.3	60.4		ug/L		81	57 - 120	11	35
Hexachlorobenzene	ND		74.3	59.7		ug/L		80	56 - 120	13	34
4-Aminobiphenyl	ND		74.3	ND		ug/L		39	19 - 130	7	75
Pronamide	ND		74.3	61.2		ug/L		82	53 - 136	9	35
Pentachlorophenol	ND		149	142		ug/L		96	42 - 126	11	36
Pentachloronitrobenzene	ND		74.3	64.8		ug/L		87	68 - 146	6	33
Phenanthrene	ND		74.3	63.7		ug/L		86	56 - 120	11	33
Anthracene	ND		74.3	65.5		ug/L		88	56 - 121	10	33
Methyl parathion	ND		74.3	68.7		ug/L		93	54 - 151	11	34
Di-n-butyl phthalate	ND		74.3	71.0		ug/L		96	52 - 132	11	35
Methapyrilene	ND		74.3	68.3		ug/L		92	10 - 120	4	149
Isodrin	ND	F1	74.3	40.0	F1	ug/L		54	57 - 125	4	34
Fluoranthene	ND		74.3	67.1		ug/L		90	54 - 122	11	32
Pyrene	ND		74.3	61.8		ug/L		83	54 - 126	12	30
Butyl benzyl phthalate	ND		74.3	66.9		ug/L		90	49 - 141	12	35
Famphur	ND	F1	149	ND	F1	ug/L		43	49 - 150	14	45
2-Acetylaminofluorene	ND		74.3	ND		ug/L		80	40 - 152	7	38
Bis(2-ethylhexyl) phthalate	ND		74.3	71.5		ug/L		96	40 - 134	12	38
3,3'-Dichlorobenzidine	ND		149	99.2		ug/L		67	42 - 147	7	35
Benz(a)anthracene	ND		74.3	62.1		ug/L		84	57 - 127	11	31
Chrysene	ND		74.3	58.8		ug/L		79	54 - 123	14	29
Di-n-octyl phthalate	ND		74.3	71.9		ug/L		97	33 - 141	12	38
Benzo(b)fluoranthene	ND		74.3	68.7		ug/L		92	44 - 134	12	39
Benzo(k)fluoranthene	ND		74.3	62.0		ug/L		83	58 - 127	12	32

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

Lab Sample ID: 280-200440-F-3-C MSD
Matrix: Water
Analysis Batch: 678763

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 678655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
7,12-Dimethylbenz(a)anthracene	ND		74.3	56.3		ug/L		76	46 - 124	6	37
Benzo(a)pyrene	ND		74.3	65.3		ug/L		88	50 - 120	11	35
3-Methylcholanthrene	ND		74.3	49.9		ug/L		67	51 - 120	7	38
Dibenz(a,h)anthracene	ND		74.3	65.2		ug/L		88	48 - 125	15	37
Indeno(1,2,3-cd)pyrene	ND		74.3	68.8		ug/L		93	38 - 120	10	36
Benzo(ghi)perylene	ND		74.3	66.0		ug/L		89	52 - 120	10	36
bis(2-Chloroethyl) ether	ND		74.3	48.7		ug/L		66	30 - 120	18	48
o-Toluidine	ND		74.3	40.1		ug/L		54	25 - 129	16	82
Chlorobenzilate	ND		74.3	57.7		ug/L		78	55 - 165	9	33
Parathion	ND		74.3	66.3		ug/L		89	60 - 128	8	38
2,2'-oxybis(1-chloropropane)	ND		74.3	49.7		ug/L		67	32 - 120	17	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*34*		*13 - 120*
Phenol-d5	*27*		*10 - 120*
Nitrobenzene-d5	*65*		*34 - 120*
2-Fluorobiphenyl	*70*		*28 - 120*
2,4,6-Tribromophenol	*90*		*22 - 140*
Terphenyl-d14	*81*		*55 - 142*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-678602/1-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
4,4'-DDE	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
4,4'-DDT	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Aldrin	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
alpha-BHC	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
cis-Chlordane	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
beta-BHC	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
delta-BHC	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Dieldrin	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Endosulfan I	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Endosulfan II	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Endosulfan sulfate	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Endrin	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Endrin aldehyde	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
gamma-BHC (Lindane)	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
trans-Chlordane	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Heptachlor	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Heptachlor epoxide	ND		0.050		ug/L		12/16/24 11:33	12/17/24 23:37	1
Kepone	ND		1.0		ug/L		12/16/24 11:33	12/17/24 23:37	1
Methoxychlor	ND		0.10		ug/L		12/16/24 11:33	12/17/24 23:37	1
Toxaphene	ND		2.0		ug/L		12/16/24 11:33	12/17/24 23:37	1
Technical Chlordane	ND		0.50		ug/L		12/16/24 11:33	12/17/24 23:37	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		10 - 157	12/16/24 11:33	12/17/24 23:37	1
Tetrachloro-m-xylene	65		12 - 129	12/16/24 11:33	12/17/24 23:37	1

Lab Sample ID: MB 280-678602/1-A
Matrix: Water
Analysis Batch: 678956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
4,4'-DDE	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
4,4'-DDT	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
alpha-BHC	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
cis-Chlordane	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
beta-BHC	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
delta-BHC	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Dieldrin	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Endosulfan I	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Endosulfan II	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Endosulfan sulfate	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Endrin	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Endrin aldehyde	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
gamma-BHC (Lindane)	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
trans-Chlordane	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Heptachlor	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Heptachlor epoxide	ND		0.050		ug/L		12/16/24 11:33	12/18/24 16:58	1
Methoxychlor	ND		0.10		ug/L		12/16/24 11:33	12/18/24 16:58	1
Toxaphene	ND		2.0		ug/L		12/16/24 11:33	12/18/24 16:58	1
Technical Chlordane	ND		0.50		ug/L		12/16/24 11:33	12/18/24 16:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		10 - 157	12/16/24 11:33	12/18/24 16:58	1
Tetrachloro-m-xylene	64		12 - 129	12/16/24 11:33	12/18/24 16:58	1

Lab Sample ID: MB 280-678602/1-A
Matrix: Water
Analysis Batch: 680096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050		ug/L		12/16/24 11:33	12/31/24 18:28	1
Kepone	ND		1.0		ug/L		12/16/24 11:33	12/31/24 18:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		10 - 157	12/16/24 11:33	12/31/24 18:28	1
Tetrachloro-m-xylene	74		12 - 129	12/16/24 11:33	12/31/24 18:28	1

Lab Sample ID: LCS 280-678602/2-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.500	0.431		ug/L		86	63 - 140		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-678602/2-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDE	0.500	0.403		ug/L		81	58 - 132
4,4'-DDT	0.500	0.414		ug/L		83	64 - 159
Aldrin	0.500	0.369		ug/L		74	10 - 123
alpha-BHC	0.500	0.446		ug/L		89	62 - 123
cis-Chlordane	0.500	0.424		ug/L		85	54 - 138
beta-BHC	0.500	0.452		ug/L		90	58 - 120
delta-BHC	0.500	0.495		ug/L		99	63 - 128
Dieldrin	0.500	0.419		ug/L		84	62 - 135
Endosulfan I	0.500	0.403		ug/L		81	59 - 136
Endosulfan II	0.500	0.417		ug/L		83	56 - 131
Endosulfan sulfate	0.500	0.445		ug/L		89	63 - 138
Endrin	0.500	0.421		ug/L		84	66 - 134
Endrin aldehyde	0.500	0.392		ug/L		78	58 - 125
gamma-BHC (Lindane)	0.500	0.475		ug/L		95	63 - 126
trans-Chlordane	0.500	0.437		ug/L		87	56 - 135
Heptachlor	0.500	0.364		ug/L		73	26 - 136
Heptachlor epoxide	0.500	0.400		ug/L		80	62 - 133
Methoxychlor	0.500	0.404		ug/L		81	55 - 166

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*10 - 157*
Tetrachloro-m-xylene	*60*		*12 - 129*

Lab Sample ID: LCS 280-678602/2-A
Matrix: Water
Analysis Batch: 678956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.500	0.398		ug/L		80	63 - 140
4,4'-DDE	0.500	0.369		ug/L		74	58 - 132
4,4'-DDT	0.500	0.396		ug/L		79	64 - 159
alpha-BHC	0.500	0.431		ug/L		86	62 - 123
cis-Chlordane	0.500	0.404		ug/L		81	54 - 138
beta-BHC	0.500	0.444		ug/L		89	58 - 120
delta-BHC	0.500	0.468		ug/L		94	63 - 128
Dieldrin	0.500	0.406		ug/L		81	62 - 135
Endosulfan I	0.500	0.393		ug/L		79	59 - 136
Endosulfan II	0.500	0.399		ug/L		80	56 - 131
Endosulfan sulfate	0.500	0.407		ug/L		81	63 - 138
Endrin	0.500	0.411		ug/L		82	66 - 134
Endrin aldehyde	0.500	0.380		ug/L		76	58 - 125
gamma-BHC (Lindane)	0.500	0.449		ug/L		90	63 - 126
trans-Chlordane	0.500	0.419		ug/L		84	56 - 135
Heptachlor	0.500	0.350		ug/L		70	26 - 136
Heptachlor epoxide	0.500	0.381		ug/L		76	62 - 133
Methoxychlor	0.500	0.387		ug/L		77	55 - 166

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-678602/2-A
Matrix: Water
Analysis Batch: 678956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	83		10 - 157
Tetrachloro-m-xylene	58		12 - 129

Lab Sample ID: LCS 280-678602/2-A
Matrix: Water
Analysis Batch: 680096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.500	0.401		ug/L		80	10 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	80		10 - 157
Tetrachloro-m-xylene	66		12 - 129

Lab Sample ID: LCS 280-678602/6-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			20.0	18.0		ug/L		90	52 - 142		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	94		10 - 157
Tetrachloro-m-xylene	67		12 - 129

Lab Sample ID: LCS 280-678602/8-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Kepone			3.00	2.83		ug/L		94	10 - 328		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	86		10 - 157
Tetrachloro-m-xylene	61		12 - 129

Lab Sample ID: LCSD 280-678602/3-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.500	0.444		ug/L		89	63 - 140	3	22
4,4'-DDE			0.500	0.430		ug/L		86	58 - 132	7	23
4,4'-DDT			0.500	0.418		ug/L		84	64 - 159	1	24
Aldrin			0.500	0.371		ug/L		74	10 - 123	1	43
alpha-BHC			0.500	0.458		ug/L		92	62 - 123	3	21
cis-Chlordane			0.500	0.432		ug/L		86	54 - 138	2	31
beta-BHC			0.500	0.468		ug/L		94	58 - 120	4	21

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-678602/3-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
delta-BHC			0.500	0.505		ug/L		101	63 - 128	2	22
Dieldrin			0.500	0.430		ug/L		86	62 - 135	3	21
Endosulfan I			0.500	0.416		ug/L		83	59 - 136	3	22
Endosulfan II			0.500	0.425		ug/L		85	56 - 131	2	20
Endosulfan sulfate			0.500	0.455		ug/L		91	63 - 138	2	21
Endrin			0.500	0.426		ug/L		85	66 - 134	1	21
Endrin aldehyde			0.500	0.396		ug/L		79	58 - 125	1	23
gamma-BHC (Lindane)			0.500	0.501		ug/L		100	63 - 126	5	21
trans-Chlordane			0.500	0.444		ug/L		89	56 - 135	2	25
Heptachlor			0.500	0.364		ug/L		73	26 - 136	0	38
Heptachlor epoxide			0.500	0.408		ug/L		82	62 - 133	2	22
Methoxychlor			0.500	0.409		ug/L		82	55 - 166	1	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*10 - 157*
Tetrachloro-m-xylene	*62*		*12 - 129*

Lab Sample ID: LCSD 280-678602/3-A
Matrix: Water
Analysis Batch: 678956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.500	0.424		ug/L		85	63 - 140	6	22
4,4'-DDE			0.500	0.404		ug/L		81	58 - 132	9	23
4,4'-DDT			0.500	0.405		ug/L		81	64 - 159	2	24
alpha-BHC			0.500	0.444		ug/L		89	62 - 123	3	21
cis-Chlordane			0.500	0.417		ug/L		83	54 - 138	3	31
beta-BHC			0.500	0.451		ug/L		90	58 - 120	2	21
delta-BHC			0.500	0.477		ug/L		95	63 - 128	2	22
Dieldrin			0.500	0.418		ug/L		84	62 - 135	3	21
Endosulfan I			0.500	0.405		ug/L		81	59 - 136	3	22
Endosulfan II			0.500	0.412		ug/L		82	56 - 131	3	20
Endosulfan sulfate			0.500	0.421		ug/L		84	63 - 138	3	21
Endrin			0.500	0.420		ug/L		84	66 - 134	2	21
Endrin aldehyde			0.500	0.382		ug/L		76	58 - 125	1	23
gamma-BHC (Lindane)			0.500	0.483		ug/L		97	63 - 126	7	21
trans-Chlordane			0.500	0.433		ug/L		87	56 - 135	3	25
Heptachlor			0.500	0.360		ug/L		72	26 - 136	3	38
Heptachlor epoxide			0.500	0.395		ug/L		79	62 - 133	4	22
Methoxychlor			0.500	0.394		ug/L		79	55 - 166	2	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*10 - 157*
Tetrachloro-m-xylene	*59*		*12 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-678602/3-A
Matrix: Water
Analysis Batch: 680096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.500	0.398		ug/L		80	10 - 123	1	43

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*10 - 157*
Tetrachloro-m-xylene	*67*		*12 - 129*

Lab Sample ID: LCSD 280-678602/7-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toxaphene			20.0	18.6		ug/L		93	52 - 142	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*10 - 157*
Tetrachloro-m-xylene	*62*		*12 - 129*

Lab Sample ID: LCSD 280-678602/9-A
Matrix: Water
Analysis Batch: 678844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Kepone			3.00	3.29	E	ug/L		110	10 - 328	15	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*10 - 157*
Tetrachloro-m-xylene	*59*		*12 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-678602/1-A
Matrix: Water
Analysis Batch: 678767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0		ug/L		12/16/24 11:33	12/17/24 20:15	1
Aroclor 1221	ND		1.0		ug/L		12/16/24 11:33	12/17/24 20:15	1
Aroclor 1232	ND		1.0		ug/L		12/16/24 11:33	12/17/24 20:15	1
Aroclor 1242	ND		1.0		ug/L		12/16/24 11:33	12/17/24 20:15	1
Aroclor 1248	ND		1.0		ug/L		12/16/24 11:33	12/17/24 20:15	1
Aroclor 1254	ND		1.0		ug/L		12/16/24 11:33	12/17/24 20:15	1
Aroclor 1260	ND		1.0		ug/L		12/16/24 11:33	12/17/24 20:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*30 - 136*	*12/16/24 11:33*	*12/17/24 20:15*	*1*
Tetrachloro-m-xylene	*113*		*25 - 120*	*12/16/24 11:33*	*12/17/24 20:15*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 280-678602/4-A
Matrix: Water
Analysis Batch: 678767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			2.00	1.76		ug/L		88	71 - 128		
Aroclor 1260			2.00	1.65		ug/L		82	75 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*79*		*30 - 136*
Tetrachloro-m-xylene	*101*		*25 - 120*

Lab Sample ID: LCSD 280-678602/5-A
Matrix: Water
Analysis Batch: 678767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			2.00	1.84		ug/L		92	71 - 128	5	30
Aroclor 1260			2.00	1.82		ug/L		91	75 - 126	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*30 - 136*
Tetrachloro-m-xylene	*109*		*25 - 120*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-678121/1-A
Matrix: Water
Analysis Batch: 678239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678121

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		1.5		ug/L		12/11/24 14:07	12/12/24 12:07	1
Disulfoton	ND		1.0		ug/L		12/11/24 14:07	12/12/24 12:07	1
Phorate	ND		1.2		ug/L		12/11/24 14:07	12/12/24 12:07	1
Thionazin	ND		1.0		ug/L		12/11/24 14:07	12/12/24 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormefos	*75*		*27 - 120*	*12/11/24 14:07*	*12/12/24 12:07*	*1*
Triphenylphosphate	*94*		*42 - 120*	*12/11/24 14:07*	*12/12/24 12:07*	*1*

Lab Sample ID: LCS 280-678121/2-A
Matrix: Water
Analysis Batch: 678239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678121

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dimethoate			4.00	3.08		ug/L		77	20 - 120		
Disulfoton			4.00	3.77		ug/L		94	44 - 120		
Phorate			4.00	3.79		ug/L		95	33 - 124		
Thionazin			4.00	3.88		ug/L		97	39 - 128		

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCS 280-678121/2-A
Matrix: Water
Analysis Batch: 678239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Chlormefos	*86*		*27 - 120*
Triphenylphosphate	*107*		*42 - 120*

Lab Sample ID: LCSD 280-678121/3-A
Matrix: Water
Analysis Batch: 678239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678121

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethoate			4.00	2.61		ug/L		65	20 - 120	17	30
Disulfoton			4.00	3.74		ug/L		93	44 - 120	1	30
Phorate			4.00	4.06		ug/L		102	33 - 124	7	30
Thionazin			4.00	3.89		ug/L		97	39 - 128	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Chlormefos	*84*		*27 - 120*
Triphenylphosphate	*104*		*42 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-585924/1-A
Matrix: Water
Analysis Batch: 586272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0		ug/L		12/13/24 15:32	12/16/24 14:23	1
2,4-D	ND		4.0		ug/L		12/13/24 15:32	12/16/24 14:23	1
Dinoseb	ND		1.0		ug/L		12/13/24 15:32	12/16/24 14:23	1
2,4,5-TP (Silvex)	ND		1.0		ug/L		12/13/24 15:32	12/16/24 14:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*34 - 142*	*12/13/24 15:32*	*12/16/24 14:23*	*1*
2,4-Dichlorophenylacetic acid	*62*		*34 - 142*	*12/13/24 15:32*	*12/16/24 14:23*	*1*

Lab Sample ID: LCS 410-585924/2-A
Matrix: Water
Analysis Batch: 586272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585924

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			0.250	0.160	J	ug/L		64	57 - 171		
2,4-D			2.50	1.46	J	ug/L		59	53 - 159		
Dinoseb			1.25	ND		ug/L		19	10 - 169		
2,4,5-TP (Silvex)			0.250	0.157	J	ug/L		63	62 - 170		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*65*		*34 - 142*
2,4-Dichlorophenylacetic acid	*58*		*34 - 142*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 410-585924/3-A
Matrix: Water
Analysis Batch: 586272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 585924

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			0.250	0.169	J	ug/L		67	57 - 171	5	30
2,4-D			2.50	1.56	J	ug/L		62	53 - 159	6	30
Dinoseb			1.25	0.721	J *1	ug/L		58	10 - 169	100	30
2,4,5-TP (Silvex)			0.250	0.174	J	ug/L		69	62 - 170	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*71*		*34 - 142*
2,4-Dichlorophenylacetic acid	*64*		*34 - 142*

Method: 6010D - Metals (ICP)

Lab Sample ID: 280-200537-A-41-B MS
Matrix: Water
Analysis Batch: 678424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 678011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.028		1.00	1.01		mg/L		98	84 - 120
Tin	ND		1000	990		ug/L		99	77 - 125

Lab Sample ID: 280-200537-A-41-C MSD
Matrix: Water
Analysis Batch: 678424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 678011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	0.028		1.00	1.01		mg/L		98	84 - 120	0	20
Tin	ND		1000	984		ug/L		98	77 - 125	1	20

Lab Sample ID: MB 280-678011/1-A
Matrix: Water
Analysis Batch: 678424

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 678011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0040		mg/L		12/12/24 08:51	12/12/24 16:28	1
Tin	ND		100		ug/L		12/12/24 08:51	12/12/24 16:28	1

Lab Sample ID: LCS 280-678011/2-A
Matrix: Water
Analysis Batch: 678424

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 678011

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel			1.00	0.987		mg/L		99	89 - 111
Tin			1000	1000		ug/L		100	85 - 113

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-678391/1-A
Matrix: Water
Analysis Batch: 678623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678391

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/13/24 09:20	12/13/24 14:36	1

Lab Sample ID: LCS 280-678391/2-A
Matrix: Water
Analysis Batch: 678623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00500	0.00527		mg/L		105	84 - 120		

Lab Sample ID: 280-200575-E-1-B MS
Matrix: Water
Analysis Batch: 678623

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 678391

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00500	0.00483		mg/L		97	75 - 125		

Lab Sample ID: 280-200575-E-1-C MSD
Matrix: Water
Analysis Batch: 678623

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 678391

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00519		mg/L		104	75 - 125	7	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 280-678871/55
Matrix: Water
Analysis Batch: 678871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			12/17/24 13:40	1

Lab Sample ID: LCS 280-678871/56
Matrix: Water
Analysis Batch: 678871

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.0999	0.109		mg/L		109	90 - 110		

Lab Sample ID: 280-200457-D-1 MS
Matrix: Water
Analysis Batch: 678871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	ND		0.0999	0.0897		mg/L		90	90 - 110		

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 280-200457-D-1 MSD
Matrix: Water
Analysis Batch: 678871

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND		0.0999	0.0930		mg/L		93	90 - 110	4	20

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-678696/3-A
Matrix: Water
Analysis Batch: 678707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678696

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		4.0		mg/L		12/16/24 16:14	12/16/24 17:27	1

Lab Sample ID: LCS 280-678696/1-A
Matrix: Water
Analysis Batch: 678707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Sulfide	19.3	14.4		mg/L		75	44 - 110

Lab Sample ID: LCSD 280-678696/2-A
Matrix: Water
Analysis Batch: 678707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Sulfide	19.3	14.4		mg/L		75	44 - 110	0	20

Lab Sample ID: 280-200627-D-1-B MS
Matrix: Water
Analysis Batch: 678707

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 678696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Sulfide	ND		19.3	14.4		mg/L		75	44 - 110

Lab Sample ID: 280-200627-D-1-C MSD
Matrix: Water
Analysis Batch: 678707

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 678696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Sulfide	ND		19.3	12.8		mg/L		66	44 - 110	12	20

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-678090/4
Matrix: Water
Analysis Batch: 678090

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/11/24 09:53	1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: SCB 280-678090/1
Matrix: Water
Analysis Batch: 678090

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

Analyte	SCB Result	SCB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/11/24 09:53	1

Lab Sample ID: USB 280-678090/2
Matrix: Water
Analysis Batch: 678090

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/11/24 09:53	1

Lab Sample ID: LCS 280-678090/3
Matrix: Water
Analysis Batch: 678090

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	205		mg/L		104	85 - 115		

Lab Sample ID: 280-200531-2 DU
Matrix: Water
Analysis Batch: 678090

Client Sample ID: OBWL-TD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	ND			ND		mg/L				NC	20

QC Association Summary

Client: Waste Management
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Job ID: 280-200531-1

GC/MS VOA

Analysis Batch: 678752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	8260D	
280-200531-2	OBWL-TD	Total/NA	Water	8260D	
280-200531-3	TRIP BLANK	Total/NA	Water	8260D	
MB 280-678752/9	Method Blank	Total/NA	Water	8260D	
LCS 280-678752/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-678752/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-678752/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-678752/7	Lab Control Sample Dup	Total/NA	Water	8260D	
280-200446-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
280-200446-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 678864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1 - RA	L-INF	Total/NA	Water	8260D	
MB 280-678864/9	Method Blank	Total/NA	Water	8260D	
LCS 280-678864/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-678864/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 678655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	3510C	
280-200531-2	OBWL-TD	Total/NA	Water	3510C	
MB 280-678655/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-678655/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-678655/25-A	Lab Control Sample Dup	Total/NA	Water	3510C	
280-200440-F-3-B MS	Matrix Spike	Total/NA	Water	3510C	
280-200440-F-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 678763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	8270E	678655
280-200531-2	OBWL-TD	Total/NA	Water	8270E	678655
MB 280-678655/1-A	Method Blank	Total/NA	Water	8270E	678655
LCS 280-678655/2-A	Lab Control Sample	Total/NA	Water	8270E	678655
LCSD 280-678655/25-A	Lab Control Sample Dup	Total/NA	Water	8270E	678655
280-200440-F-3-B MS	Matrix Spike	Total/NA	Water	8270E	678655
280-200440-F-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	678655

GC Semi VOA

Prep Batch: 585924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	8151A	
280-200531-2	OBWL-TD	Total/NA	Water	8151A	
MB 410-585924/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-585924/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-585924/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

GC Semi VOA

Analysis Batch: 586272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	8151A	585924
280-200531-2	OBWL-TD	Total/NA	Water	8151A	585924
MB 410-585924/1-A	Method Blank	Total/NA	Water	8151A	585924
LCS 410-585924/2-A	Lab Control Sample	Total/NA	Water	8151A	585924
LCSD 410-585924/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	585924

Prep Batch: 678121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	3510C	
280-200531-2	OBWL-TD	Total/NA	Water	3510C	
MB 280-678121/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-678121/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-678121/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 678239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	8141B	678121
280-200531-2	OBWL-TD	Total/NA	Water	8141B	678121
MB 280-678121/1-A	Method Blank	Total/NA	Water	8141B	678121
LCS 280-678121/2-A	Lab Control Sample	Total/NA	Water	8141B	678121
LCSD 280-678121/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	678121

Prep Batch: 678602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	3510C	
280-200531-1 - RA	L-INF	Total/NA	Water	3510C	
280-200531-2	OBWL-TD	Total/NA	Water	3510C	
MB 280-678602/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-678602/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-678602/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-678602/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-678602/8-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-678602/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-678602/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-678602/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-678602/9-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 678767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	8082A	678602
280-200531-2	OBWL-TD	Total/NA	Water	8082A	678602
MB 280-678602/1-A	Method Blank	Total/NA	Water	8082A	678602
LCS 280-678602/4-A	Lab Control Sample	Total/NA	Water	8082A	678602
LCSD 280-678602/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	678602

Analysis Batch: 678844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-2	OBWL-TD	Total/NA	Water	8081B	678602
MB 280-678602/1-A	Method Blank	Total/NA	Water	8081B	678602
LCS 280-678602/2-A	Lab Control Sample	Total/NA	Water	8081B	678602
LCS 280-678602/6-A	Lab Control Sample	Total/NA	Water	8081B	678602

GC Semi VOA (Continued)

Analysis Batch: 678844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-678602/8-A	Lab Control Sample	Total/NA	Water	8081B	678602
LCSD 280-678602/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	678602
LCSD 280-678602/7-A	Lab Control Sample Dup	Total/NA	Water	8081B	678602
LCSD 280-678602/9-A	Lab Control Sample Dup	Total/NA	Water	8081B	678602

Analysis Batch: 678956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	8081B	678602
MB 280-678602/1-A	Method Blank	Total/NA	Water	8081B	678602
LCS 280-678602/2-A	Lab Control Sample	Total/NA	Water	8081B	678602
LCSD 280-678602/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	678602

Analysis Batch: 680096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1 - RA	L-INF	Total/NA	Water	8081B	678602
MB 280-678602/1-A	Method Blank	Total/NA	Water	8081B	678602
LCS 280-678602/2-A	Lab Control Sample	Total/NA	Water	8081B	678602
LCSD 280-678602/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	678602

Metals

Prep Batch: 678011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total Recoverable	Water	3005A	
280-200531-2	OBWL-TD	Total Recoverable	Water	3005A	
MB 280-678011/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-678011/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-200537-A-41-B MS	Matrix Spike	Total/NA	Water	3005A	
280-200537-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Prep Batch: 678391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	7470A	
280-200531-2	OBWL-TD	Total/NA	Water	7470A	
MB 280-678391/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-678391/2-A	Lab Control Sample	Total/NA	Water	7470A	
280-200575-E-1-B MS	Matrix Spike	Total/NA	Water	7470A	
280-200575-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 678424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total Recoverable	Water	6010D	678011
280-200531-2	OBWL-TD	Total Recoverable	Water	6010D	678011
MB 280-678011/1-A	Method Blank	Total Recoverable	Water	6010D	678011
LCS 280-678011/2-A	Lab Control Sample	Total Recoverable	Water	6010D	678011
280-200537-A-41-B MS	Matrix Spike	Total/NA	Water	6010D	678011
280-200537-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010D	678011

Analysis Batch: 678623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	7470A	678391

Metals (Continued)

Analysis Batch: 678623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-2	OBWL-TD	Total/NA	Water	7470A	678391
MB 280-678391/1-A	Method Blank	Total/NA	Water	7470A	678391
LCS 280-678391/2-A	Lab Control Sample	Total/NA	Water	7470A	678391
280-200575-E-1-B MS	Matrix Spike	Total/NA	Water	7470A	678391
280-200575-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	678391

General Chemistry

Analysis Batch: 678090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	SM5210B	
280-200531-2	OBWL-TD	Total/NA	Water	SM5210B	
MB 280-678090/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-678090/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-678090/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-678090/3	Lab Control Sample	Total/NA	Water	SM5210B	
280-200531-2 DU	OBWL-TD	Total/NA	Water	SM5210B	

Prep Batch: 678696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	9030B	
280-200531-2	OBWL-TD	Total/NA	Water	9030B	
MB 280-678696/3-A	Method Blank	Total/NA	Water	9030B	
LCS 280-678696/1-A	Lab Control Sample	Total/NA	Water	9030B	
LCSD 280-678696/2-A	Lab Control Sample Dup	Total/NA	Water	9030B	
280-200627-D-1-B MS	Matrix Spike	Total/NA	Water	9030B	
280-200627-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 678707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	9034	678696
280-200531-2	OBWL-TD	Total/NA	Water	9034	678696
MB 280-678696/3-A	Method Blank	Total/NA	Water	9034	678696
LCS 280-678696/1-A	Lab Control Sample	Total/NA	Water	9034	678696
LCSD 280-678696/2-A	Lab Control Sample Dup	Total/NA	Water	9034	678696
280-200627-D-1-B MS	Matrix Spike	Total/NA	Water	9034	678696
280-200627-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	678696

Analysis Batch: 678871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	9012B	
280-200531-2	OBWL-TD	Total/NA	Water	9012B	
MB 280-678871/55	Method Blank	Total/NA	Water	9012B	
LCS 280-678871/56	Lab Control Sample	Total/NA	Water	9012B	
280-200457-D-1 MS	Matrix Spike	Total/NA	Water	9012B	
280-200457-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Field Service / Mobile Lab

Analysis Batch: 678215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-1	L-INF	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 678215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200531-2	OBWL-TD	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Client Sample ID: L-INF
Lab Sample ID: 280-200531-1
Date Collected: 12/09/24 12:20
Matrix: Water
Date Received: 12/10/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	678752	12/17/24 16:45	DMC	EET DEN
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	678864	12/18/24 05:06	ETB	EET DEN
Total/NA	Prep	3510C			50 mL	1 mL	678655	12/16/24 16:07	JES	EET DEN
Total/NA	Analysis	8270E		1			678763	12/17/24 14:53	MAB	EET DEN
Total/NA	Prep	3510C			1011.5 mL	10 mL	678602	12/16/24 11:33	EDW	EET DEN
Total/NA	Analysis	8081B		10	1 mL	1 mL	678956	12/18/24 17:51	SMQ	EET DEN
Total/NA	Prep	3510C	RA		1011.5 mL	10 mL	678602	12/16/24 11:33	EDW	EET DEN
Total/NA	Analysis	8081B	RA	20	1 mL	1 mL	680096	12/31/24 19:21	SMQ	EET DEN
Total/NA	Prep	3510C			1011.5 mL	10 mL	678602	12/16/24 11:33	EDW	EET DEN
Total/NA	Analysis	8082A		1	1 mL	1 mL	678767	12/17/24 21:05	MKW	EET DEN
Total/NA	Prep	3510C			100 mL	2 mL	678121	12/11/24 14:07	WPO	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	678239	12/12/24 18:32	MKW	EET DEN
Total/NA	Prep	8151A			987.5 mL	10 mL	585924	12/13/24 15:32	QJZ6	ELLE
Total/NA	Analysis	8151A		50			586272	12/16/24 16:44	UAMZ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	678011	12/12/24 08:51	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			678424	12/12/24 16:48	NKC	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	678391	12/13/24 09:20	KLG	EET DEN
Total/NA	Analysis	7470A		1			678623	12/13/24 15:03	KLG	EET DEN
Total/NA	Analysis	9012B		1	10 mL	10 mL	678871	12/17/24 15:00	LBR	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	678696	12/16/24 16:14	CAI	EET DEN
Total/NA	Analysis	9034		1			678707	12/16/24 17:27	CAI	EET DEN
Total/NA	Analysis	SM5210B		1	25 mL	300 mL	678090	12/11/24 09:53	MF	EET DEN
Total/NA	Analysis	Field Sampling		1			678215	12/09/24 13:20	P1C	EET DEN

Client Sample ID: OBWL-TD
Lab Sample ID: 280-200531-2
Date Collected: 12/09/24 10:50
Matrix: Water
Date Received: 12/10/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	678752	12/17/24 16:24	DMC	EET DEN
Total/NA	Prep	3510C			248.5 mL	1 mL	678655	12/16/24 16:07	JES	EET DEN
Total/NA	Analysis	8270E		1			678763	12/17/24 15:15	MAB	EET DEN
Total/NA	Prep	3510C			1025.2 mL	10 mL	678602	12/16/24 11:33	EDW	EET DEN
Total/NA	Analysis	8081B		1	1 mL	1 mL	678844	12/18/24 01:58	SMQ	EET DEN
Total/NA	Prep	3510C			1025.2 mL	10 mL	678602	12/16/24 11:33	EDW	EET DEN
Total/NA	Analysis	8082A		1	1 mL	1 mL	678767	12/17/24 21:21	MKW	EET DEN
Total/NA	Prep	3510C			1000.5 mL	2 mL	678121	12/11/24 14:07	WPO	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	678239	12/12/24 19:11	MKW	EET DEN
Total/NA	Prep	8151A			1017.5 mL	10 mL	585924	12/13/24 15:32	QJZ6	ELLE
Total/NA	Analysis	8151A		1			586272	12/16/24 17:12	UAMZ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	678011	12/12/24 08:51	SMK	EET DEN
Total Recoverable	Analysis	6010D		1			678424	12/12/24 16:52	NKC	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	678391	12/13/24 09:20	KLG	EET DEN
Total/NA	Analysis	7470A		1			678623	12/13/24 15:04	KLG	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-200531-1
Project/Site: WA02|Olympic View Sanitary LF - Leachate

Client Sample ID: OBWL-TD
Lab Sample ID: 280-200531-2
Date Collected: 12/09/24 10:50
Matrix: Water
Date Received: 12/10/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9012B		1	10 mL	10 mL	678871	12/17/24 14:49	LBR	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	678696	12/16/24 16:14	CAI	EET DEN
Total/NA	Analysis	9034		1			678707	12/16/24 17:27	CAI	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	678090	12/11/24 09:53	MF	EET DEN
Total/NA	Analysis	Field Sampling		1			678215	12/09/24 11:50	P1C	EET DEN

Client Sample ID: TRIP BLANK
Lab Sample ID: 280-200531-3
Date Collected: 12/09/24 10:50
Matrix: Water
Date Received: 12/10/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	678752	12/17/24 12:33	DMC	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-144004-4067.1
Client Contact: Ms. Emily Smart	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: SCS Engineers	PWSID:			Job #:

Address: 2405 140th Avenue NE Suite 107	Due Date Requested:
City: Bellevue	TAT Requested (days):
State, Zip: WA, 98005-1877	Compliance Project: Δ Yes Δ No
Phone:	PO #: Purchase Order not requir
Email: esmart@scsengineers.com	WO #:
Project Name: WA02|Olympic View Sanitary LF/WA02 Event Desc: App III Leac	Project #: 28002692
Site: Washington	SSOW#:

Analysis Requested

Preservation Codes:
D - HNO3
A - HCL
N - None
CB - ZnAcetate/NaOH
B - NaOH
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)	6010D, 7470A	8260B - (MOD) Appendix II (short list spike)	8081A - (MOD) Appendix II	8141A - (MOD) Local Method	8151A - Appendix II	9034 - Total Sulfide	9012A - 9012A, Total Cyanide	8270E - (MOD) Appendix II short list spike	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	N	CB	B	N		
L-INF – 241209	12/9/24	1220	G	Water	N	N	X	X	X	X	X	X	X	X		
OBWL-TD – 241209	12/9/24	1050	G	Water	N	N	X	X	X	X	X	X	X	X		
TRIP BLANK	—	—		Water												

280-200531 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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: 12/9/24	Company: Aspect	Received by:	Date/Time: 12/10/24 9:40	Company: ET DEN
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: 1.0, 3.5 IR PABW 0.2

Ver: 05/06/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: DUSL

Site No.: App III Sampling

Sample Point: OBWLTD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or (N)

Purging Device: B — A-Submersible Pump, D-Bailer, (B-Peristaltic Pump), E-Piston Pump, C-QED Bladder Pump, F-Dipper/Bottle

Sampling Device:

X-Other: Grab Sample

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: polythylene

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Rate/Unit: _____

	Sample Time (2400 Hr Clock)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1050	6.26	1.509	7.1	1.42	7.2	172.8	.316
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
120924	626	1509	7.1	1.42	7.2	172.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: N/A Color: Clear Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Calm Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Grab Sample from OBWL - TD location

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/09/24	Carmen Tappero	Carmen Tappero	Aspect
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: App III Sampling

Sample Point: L-1INF (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or (N)

Purging Device: B — A-Submersible Pump, (B-Peristaltic Pump), C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: _____

X-Other: Grab Sample

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: _____ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: polyethylene

Sample Tube Type: _____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1220		7.20	7562	14.9	27.2	3.3	129.1	
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
120924	720	7562	149	272	33	129.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Yellow/clear Odor: N/A Color: Yellow Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Calm Precipitation: Y or (N)

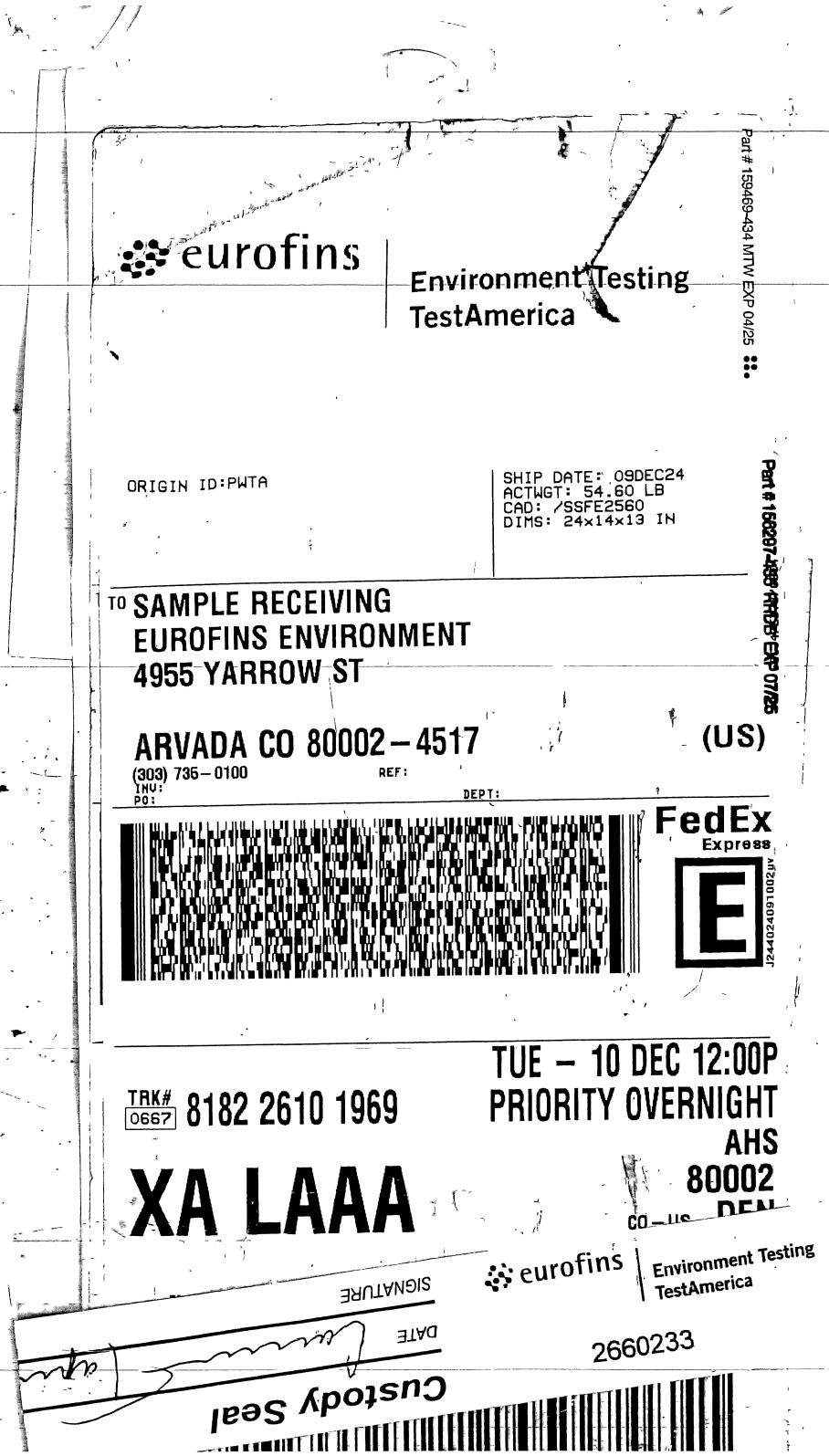
Specific Comments (including purge/well volume calculations if required):

Grab Sample from L-1INF location

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

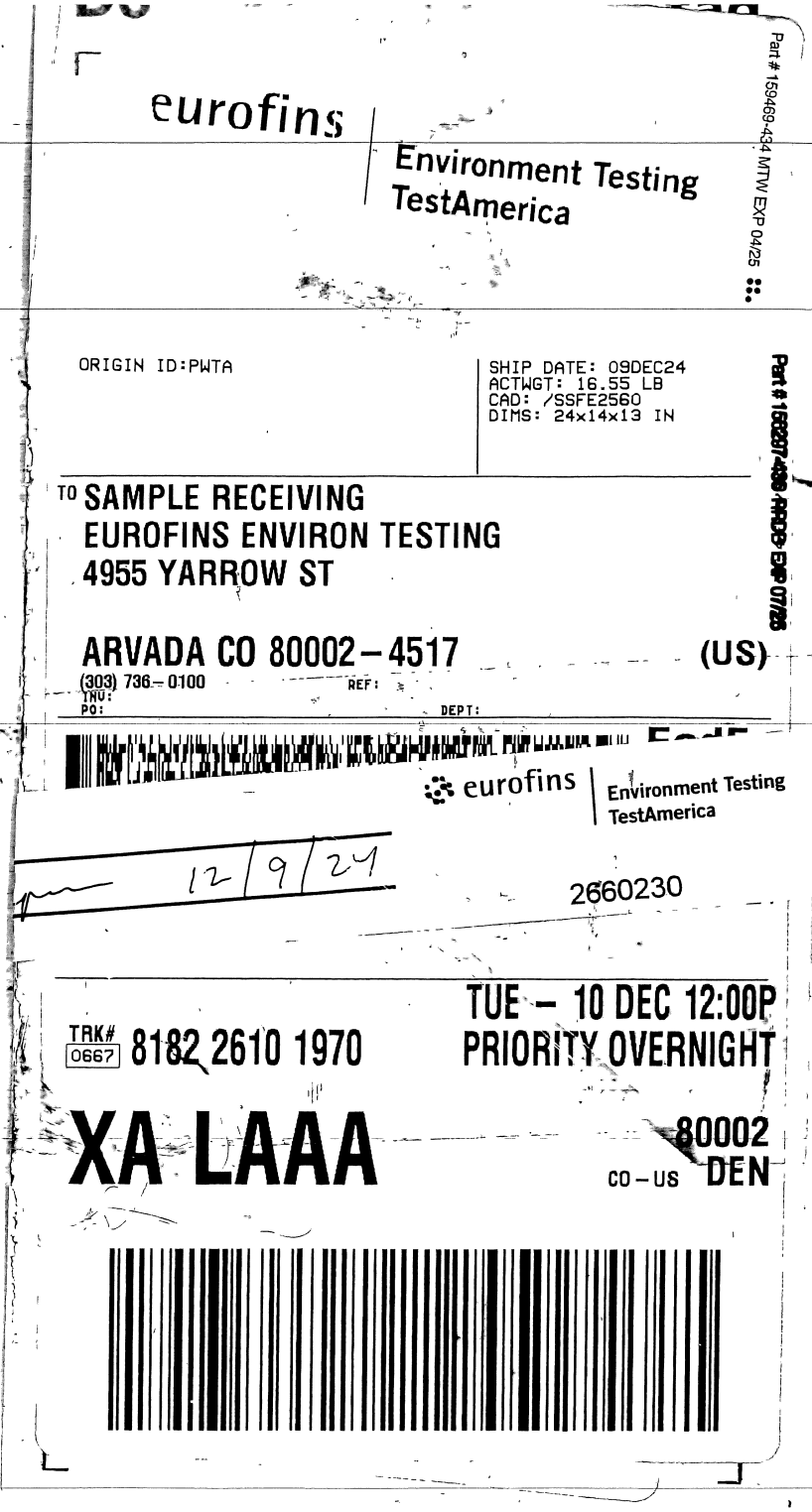
Date	Name	Signature	Company
12/09/24	Carmen Tappero	Carmen Tapp	Aspect
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy





280-200531 Waybill


eurofins
Environment Testing
TestAmerica
Part # 159469-434 MTW EXP 04/25
ORIGIN ID:PWTA
SHIP DATE: 09DEC24
ACTWGT: 16.55 LB
CAD: /SSFE2560
DIMS: 24x14x13 IN
TO SAMPLE RECEIVING
EUROFINS ENVIRON TESTING
4955 YARROW ST
ARVADA CO 80002-4517 (US)
(303) 736-0100
INV:
PO:
REF:
DEPT:
eurofins
Environment Testing
TestAmerica
12/9/24
2660230
TRK# 0667 8182 2610 1970
TUE - 10 DEC 12:00P
PRIORITY OVERNIGHT
XA LAAA
80002
CO-US DEN

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Collins, Janice S	Carrier Tracking No(s): N/A	COC No: 280-727493.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 280-200531-1
Address: 2425 New Holland Pike,	Due Date Requested: 1/3/2025			
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WA02|Olympic View Sanitary LF - Leachate	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP 8151A, Herbicides (4) (Lancaster)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
L-INF (280-200531-1)	12/9/24	12:20 Pacific	G	Water			X	2	
OBWL-TD (280-200531-2)	12/9/24	10:50 Pacific	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification Unconfirmed	*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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12-11-24 15:00	Company: FedEx	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/12/24 10:40	Company: ELLET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: ravi 1.1-2.9 corr 1.6-2.8

CM

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-200531-1

Login Number: 200531
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	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 sample IDs on the containers 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	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-200531-1

Login Number: 200531
List Number: 2
Creator: Moeller, Colin

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 12/12/24 03:54 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Appendix C

2024 Annual Time Series, Trend Test, & Predication Limit Evaluation

Olympic View Sanitary Landfill

Annual Statistical Evaluation & Summary

2024 Monitoring Year

Prepared for:

SCS ENGINEERS

2405 140th Ave NE, Ste 107
Bellevue, Washington 98005
(425) 746-4600

Prepared by:

GeoChem Applications
Geochemical and Statistical Data Analysis

3941 Park Drive, Suite 20-249
El Dorado Hills, CA 95762
916 ♦ 939 ♦ 2307
www.geochemapplications.com

MARCH 2025

CONTENTS:

1. *Statistical Trend Analysis (showing status through Q4 2024)*
2. *Prediction Limits for Detection Monitoring*
    a. *2024 Prediction Limits (showing status through Q4 2024)*
    b. *Updated Prediction Limits for Use in 2025 Monitoring Year*
3. *2024 Annual UCL Calculations for Preliminary Groundwater Cleanup Goals*

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1. Statistical Trend Analysis

- Trend Results Summary Table (showing status through Q4 2024) (Table 1-1)
- Time-Series Graphs Depicting Significant Trends for “Trend Test A”
- Time-Series Graphs Depicting Significant Trends for “Trend Test B”

TABLE 1-1

Results of Sen's Non-Parametric Test for Trend

FOURTH QUARTER 2024

Trend Test Period: January 2005 through December 2024

Trend Test Wells:

- Compliance Wells: MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43
- Performance Wells: MW-19C
- Downgradient Wells: MW-29A, MW-32, MW-33A, MW-33C, MW-36A
- Upgradient Wells* MW-13A, MW-13B, MW-16, MW-35

*trend status shown is based on most recent event with reported data, as shown

Trend Test A *= all organic parameters listed in Appendix I and Appendix II of WAC 173-351-990 that have been detected at least once in at least one of 16 wells comprising the network of 1) compliance, 2) performance, 3) downgradient, and 4) upgradient site monitoring wells, during the trend test period. This includes the following constituents:*

	Significant Increasing Trends	Significant Decreasing Trends
1,2-Dichloroethene (total)	None	None
1,2-Dichlorobenzene	None	None
1,4-Dichlorobenzene	None	None
2-Butanone (MEK)	None	None
Acetone	None	None
Carbon Disulfide	None	None
Chlorobenzene	None	None
Chlorodifluoromethane	None	None
Chloroform	None	None
Chloromethane	None	None
cis-1,2-dichloroethene	None	None
Dichlorodifluoromethane	None	None
Dichlorofluoromethane	None	None
Ethyl Ether	None	None
Methylene Chloride	None	None
Naphthalene	None	None
n-Butyl Alcohol	None	None
tert-Butyl Alcohol	None	None
Tetrahydrofuran	None	None
trans-1,2-Dichloroethene	None	None
Trichloroethene	None	MW-19C (graph 325)
Vinyl Chloride	None	MW-19C (graph 341) MW-32 (graph 343) MW-34C (graph 347)

TABLE 1-1

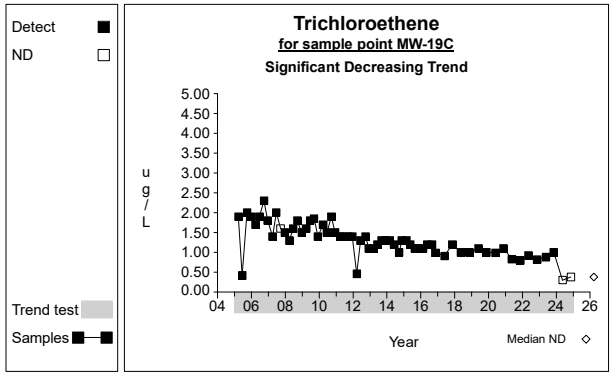
Trend Test B *= all metals and groundwater quality parameters listed in Appendix I and Appendix II of WAC (173-351-990)*

	Significant Increasing Trends	Significant Decreasing Trends
Alkalinity, bicarbonate (as CaCO3)	MW-13B (graph 2) MW-35 (graph 12)	MW-15R (graph 3) MW-34A (graph 10) MW-34C (graph 11) MW-36A (graph 13) MW-42 (graph 15)
Alkalinity, total (as CaCO3)	MW-13B (graph 18) MW-35 (graph 28)	MW-15R (graph 19) MW-34A (graph 26) MW-34C (graph 27) MW-36A (graph 29) MW-42 (graph 31)
Ammonia (as N)	None	MW-19C (graph 37) MW-29A (graph 38) MW-42 (graph 47) MW-43 (graph 48)
Antimony, total	None	None
Arsenic, total	MW-33C (graph 73)	MW-19C (graph 69)
Barium, total	None	MW-15R (graph 83) MW-29A (graph 86) MW-42 (graph 95)
Beryllium, total	None	None
Cadmium, total	None	None
Calcium, dissolved	None	MW-15R (graph 131) MW-29A (graph 134) MW-32 (graph 135) MW-34A (graph 138) MW-34C (graph 139) MW-36A (graph 141)
Chloride	MW-39 (graph 158)	MW-15R (graph 147) MW-19C (graph 149) MW-32 (graph 151) MW-34A (graph 154) MW-34C (graph 155) MW-42 (graph 159)
Chromium, total	None	None
Cobalt, total	None	None
Copper, total	None	None
Iron, total	None	None
Lead, total	None	None

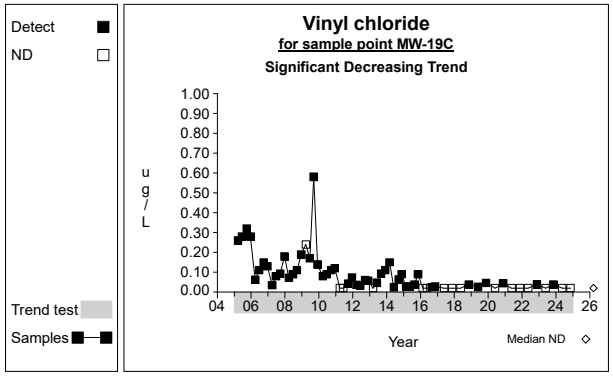
TABLE 1-1

Magnesium, dissolved	MW-39 (graph 254)	MW-15R (graph 243) MW-33A (graph 248) MW-34A (graph 250) MW-34C (graph 251) MW-42 (graph 255)
Manganese, total	None	MW-42 (graph 271) MW-43 (graph 272)
Nickel, total	None	None
Nitrate (as N)	MW-35 (graph 300)	MW-13B (graph 290) MW-16 (graph 292)
pH	MW-34C (graph 315) MW-42 (graph 319)	None
Potassium, dissolved	MW-42 (graph 335)	None
Selenium, total	None	None
Silver, total	None	None
Sodium, dissolved	None	MW-15R (graph 371) MW-19C (graph 373) MW-32 (graph 375) MW-34A (graph 378) MW-34C (graph 379) MW-36A (graph 381) MW-42 (graph 383) MW-43 (graph 384)
Specific Conductivity	MW-13B (graph 386) MW-33C (graph 393) MW-35 (graph 396) MW-39 (graph 398)	MW-15R (graph 387) MW-33A (graph 392) MW-34A (graph 394) MW-34C (graph 395)
Sulfate	MW-33A (graph 408)	MW-13B (graph 402) MW-19C (graph 405) MW-32 (graph 407) MW-42 (graph 415)
Temperature	MW-34A (graph 426) MW-34C (graph 427) MW-35 (graph 428)	None
Thallium, total	None	None
Total Dissolved Solids	None	MW-15R (graph 451) MW-32 (graph 455) MW-33A (graph 456) MW-34A (graph 458) MW-34C (graph 459)
Total Organic Carbon	None	MW-34C (graph 475)
Vanadium, total	None	None
Zinc, total	None	None

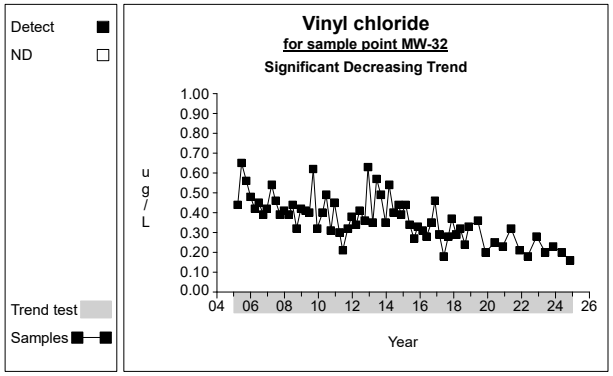
Time Series



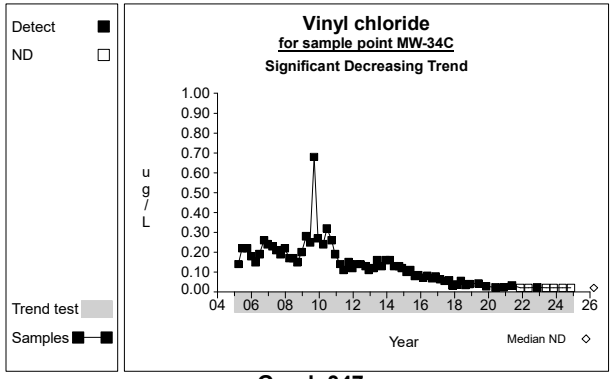
Graph 325



Graph 341

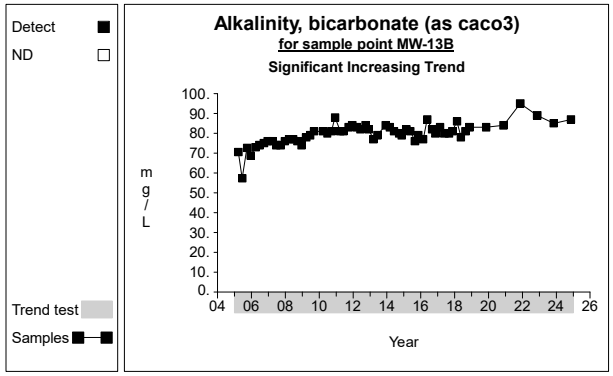


Graph 343

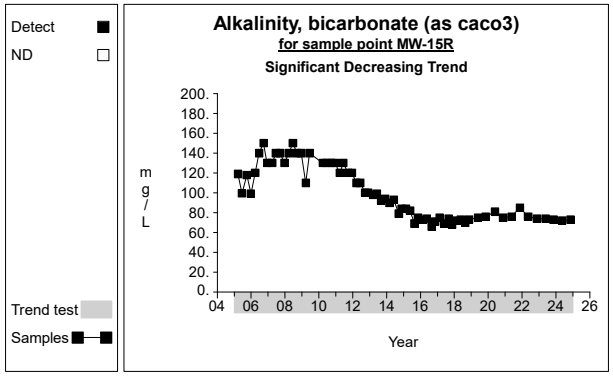


Graph 347

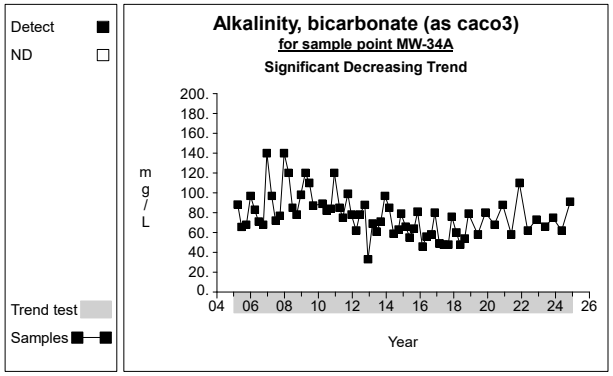
Time Series



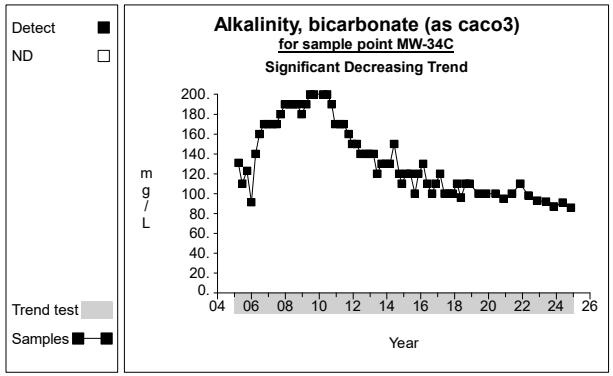
Graph 2



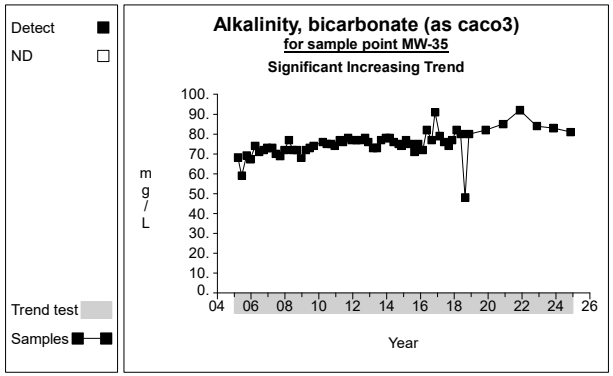
Graph 3



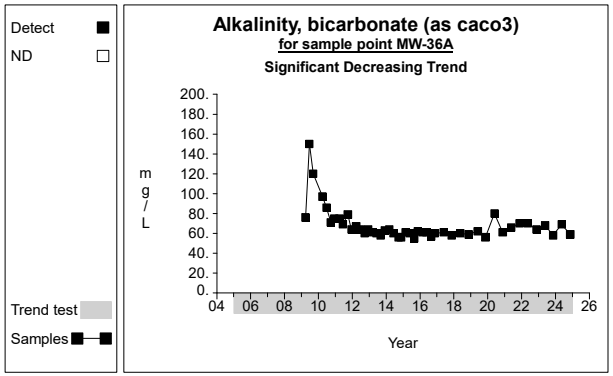
Graph 10



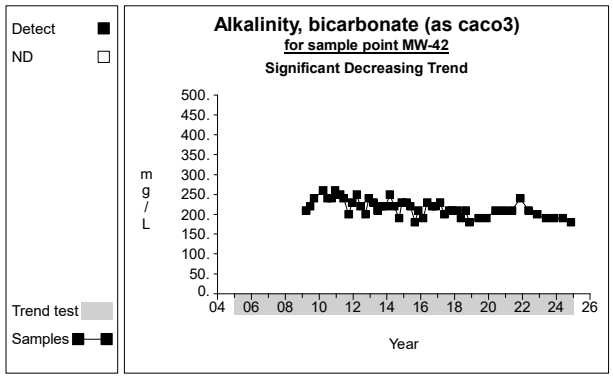
Graph 11



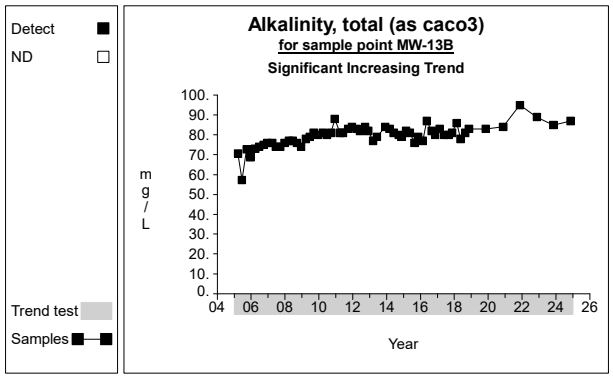
Graph 12



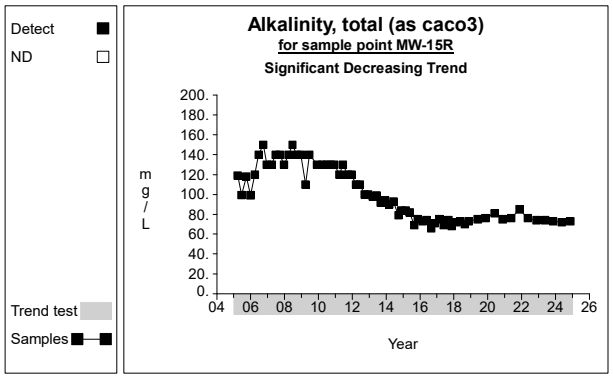
Graph 13



Graph 15

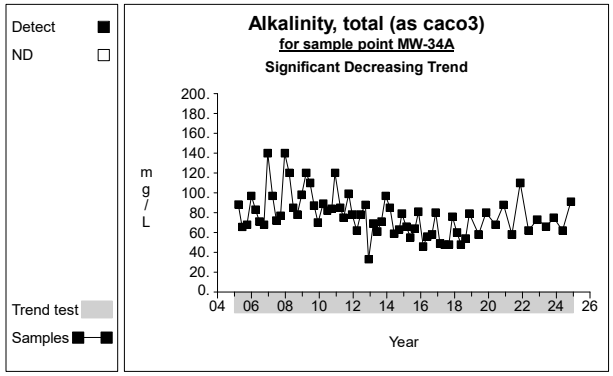


Graph 18

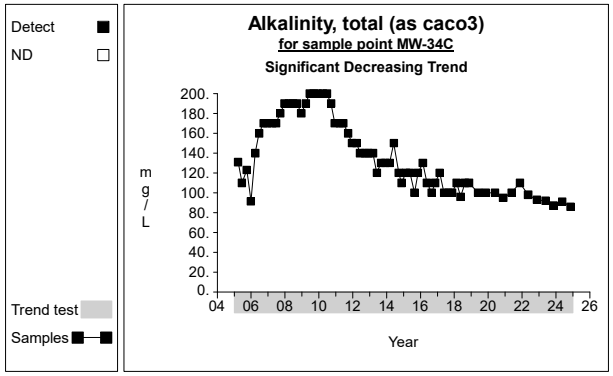


Graph 19

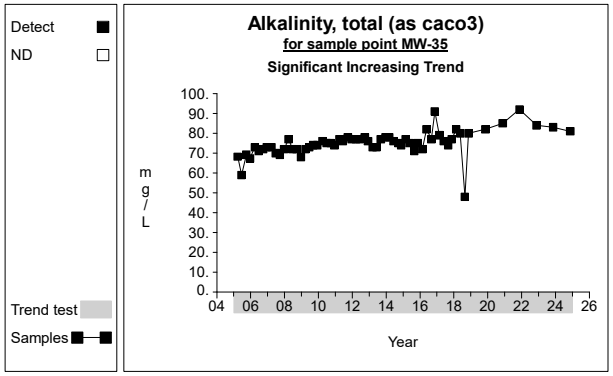
Time Series



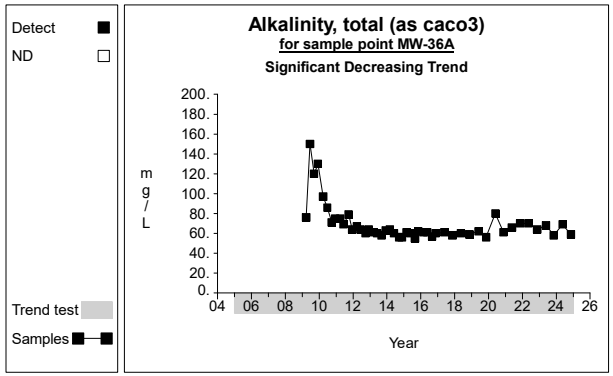
Graph 26



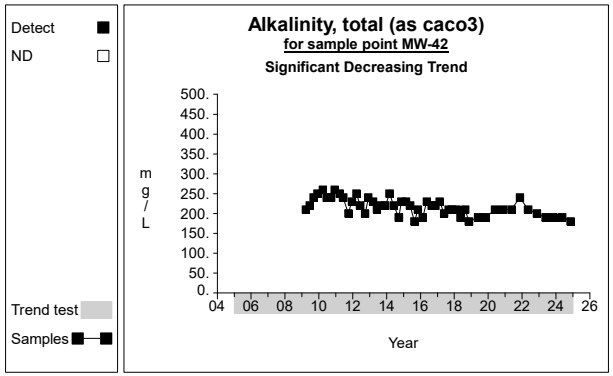
Graph 27



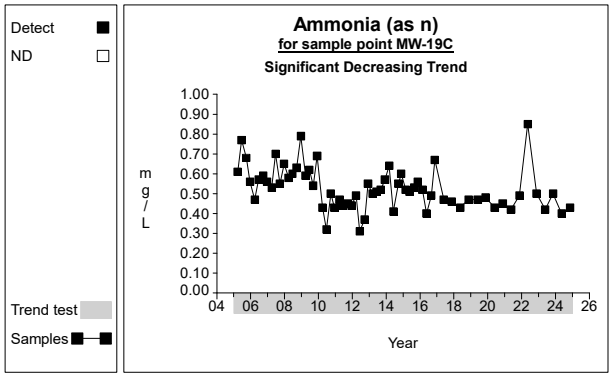
Graph 28



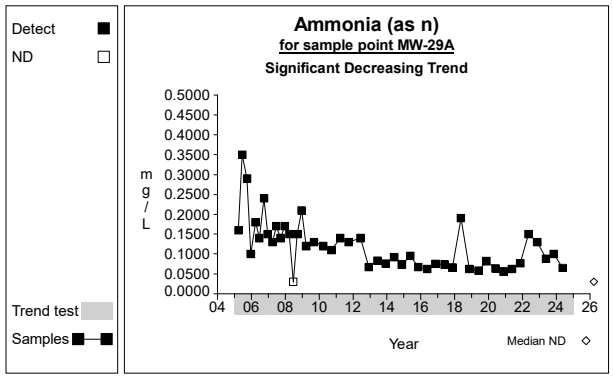
Graph 29



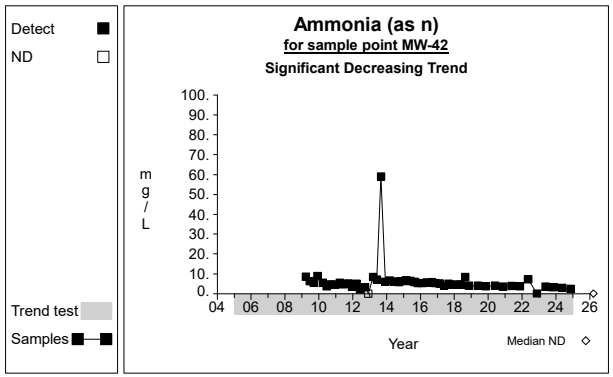
Graph 31



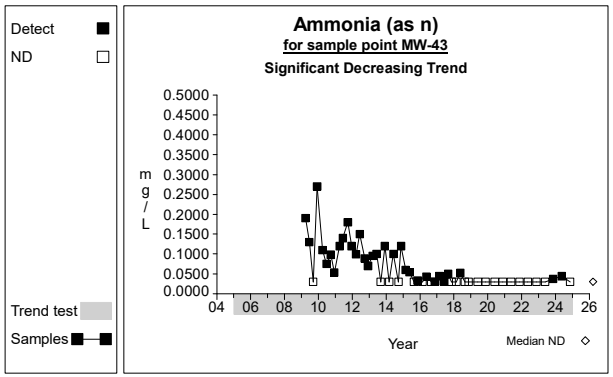
Graph 37



Graph 38

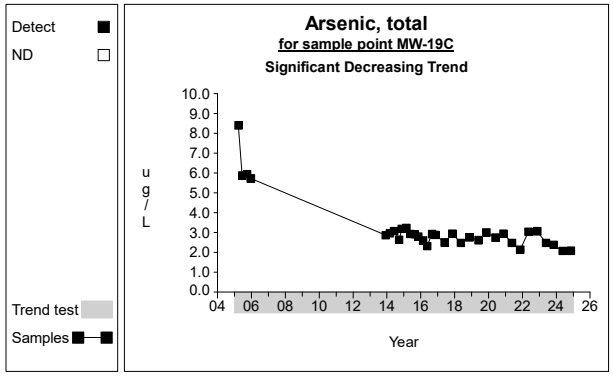


Graph 47

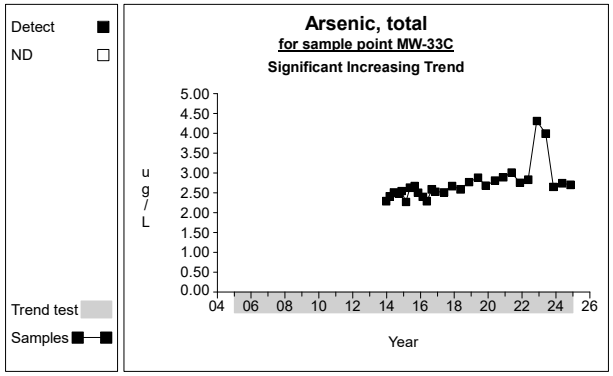


Graph 48

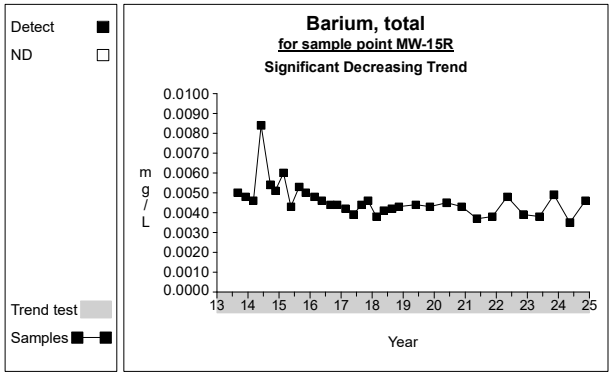
Time Series



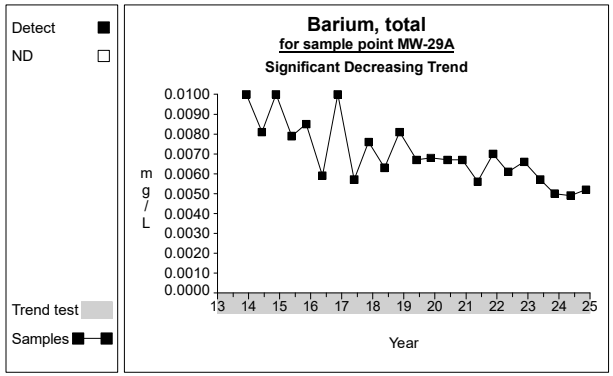
Graph 69



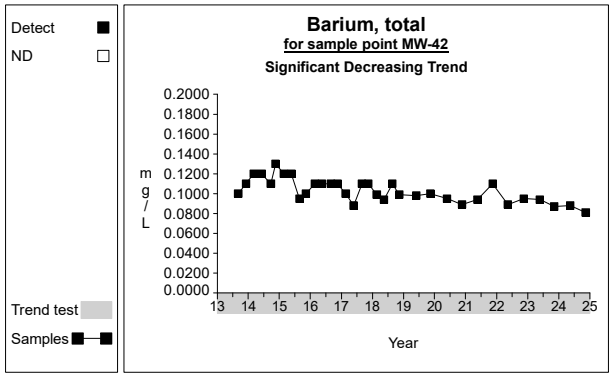
Graph 73



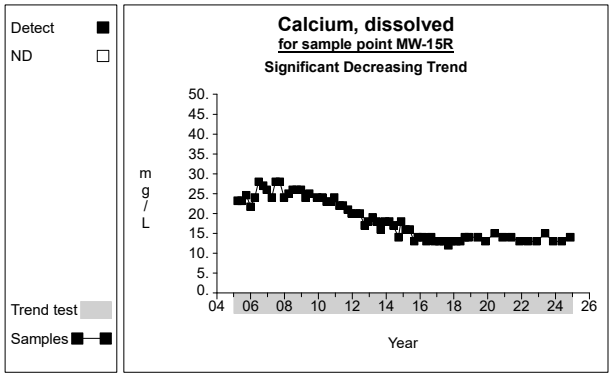
Graph 83



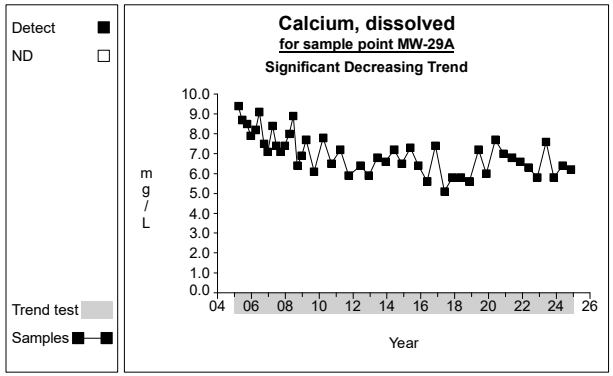
Graph 86



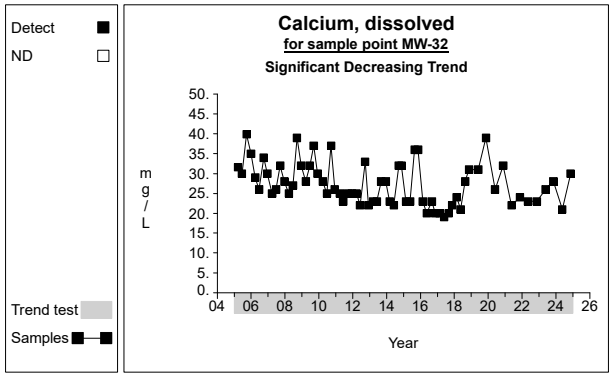
Graph 95



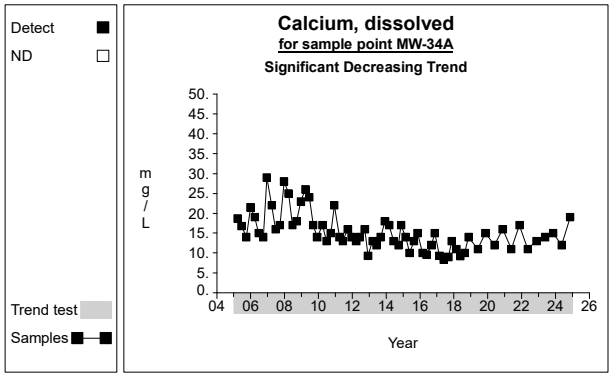
Graph 131



Graph 134

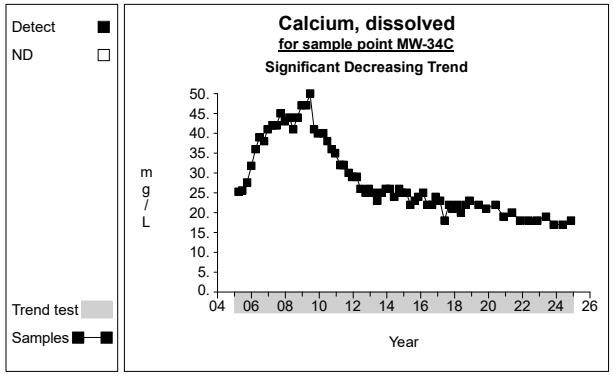


Graph 135

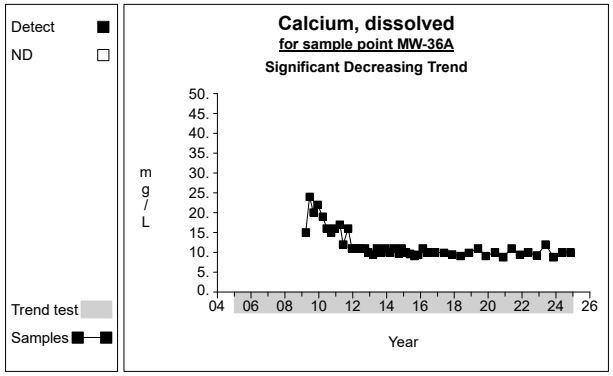


Graph 138

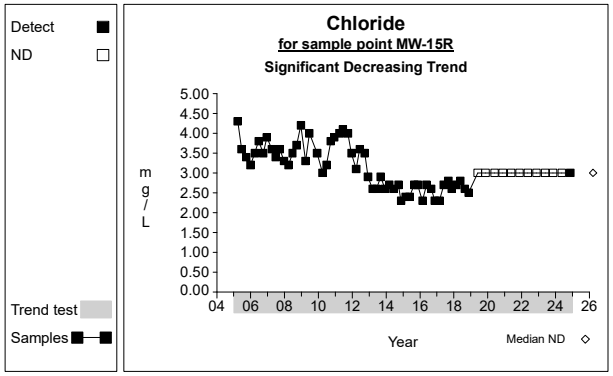
Time Series



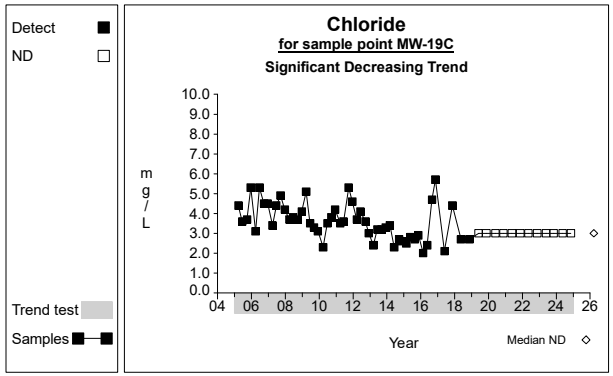
Graph 139



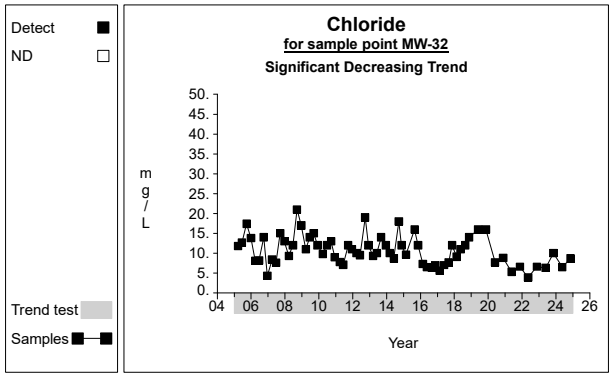
Graph 141



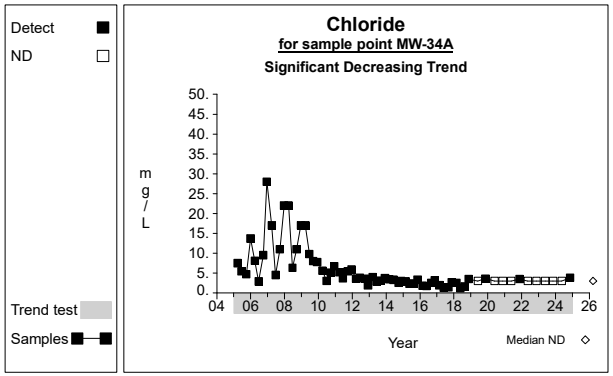
Graph 147



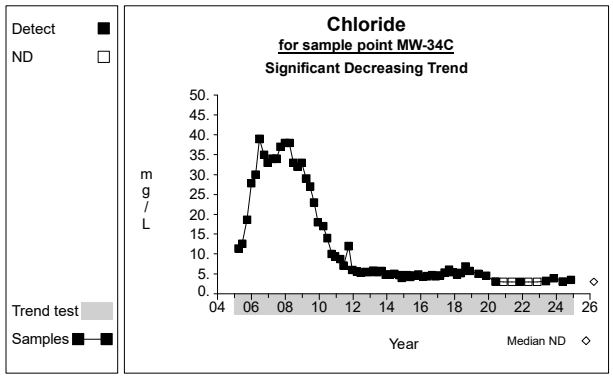
Graph 149



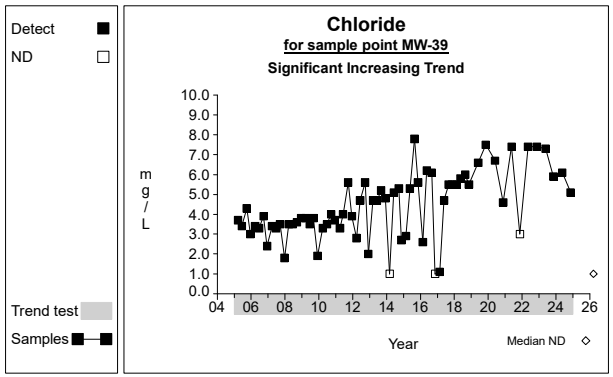
Graph 151



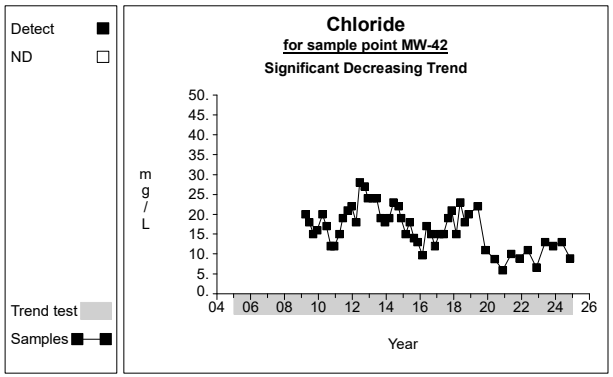
Graph 154



Graph 155

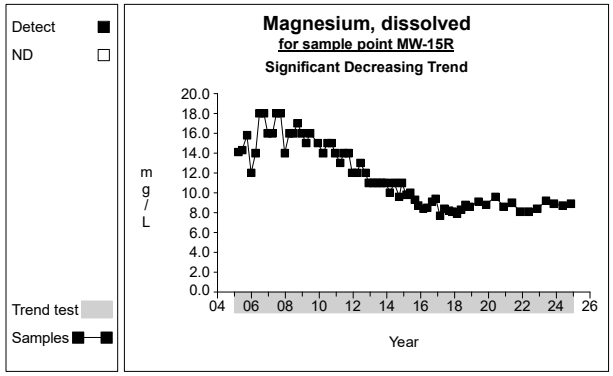


Graph 158

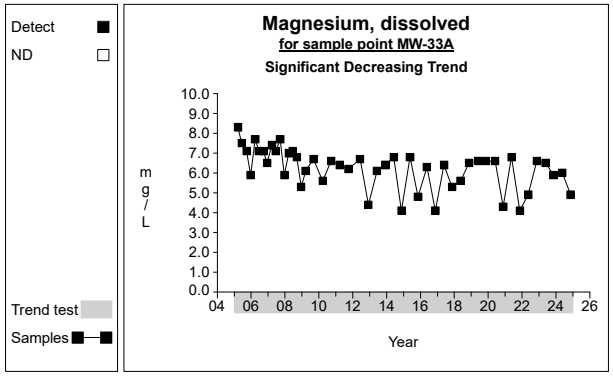


Graph 159

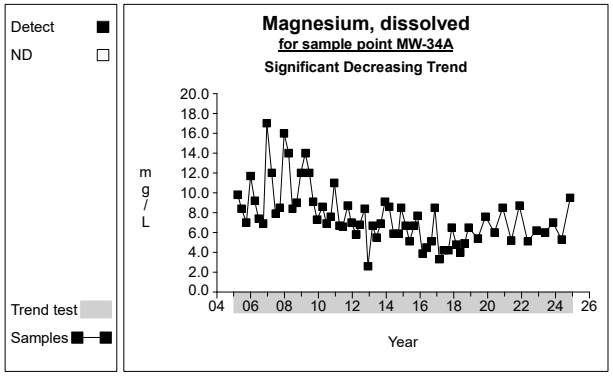
Time Series



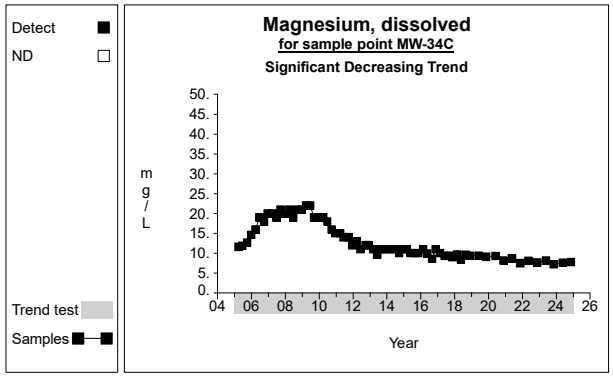
Graph 243



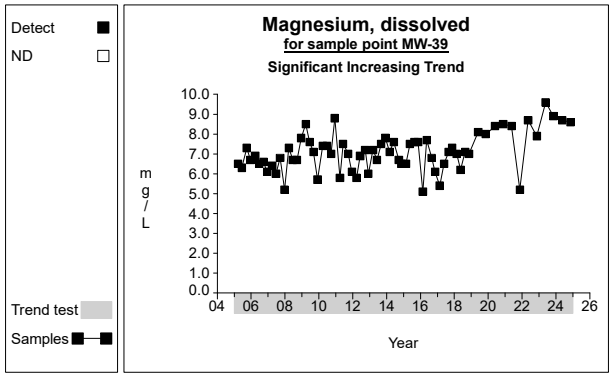
Graph 248



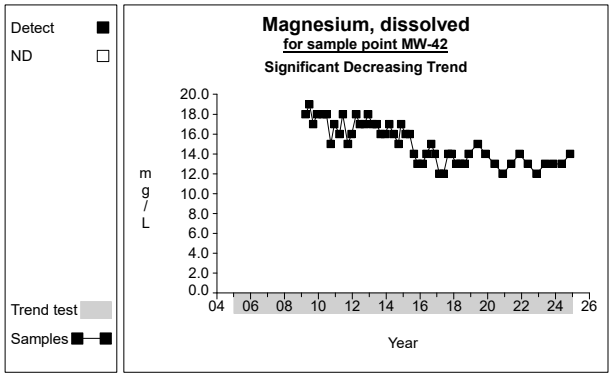
Graph 250



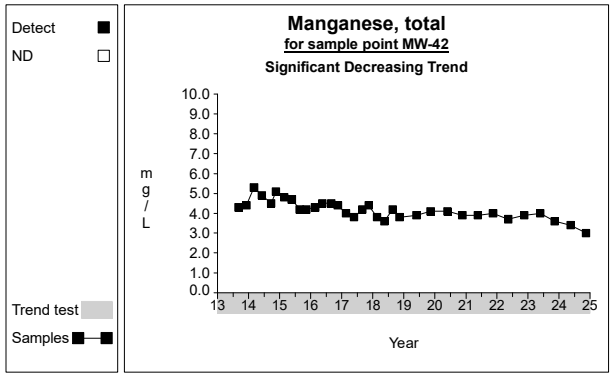
Graph 251



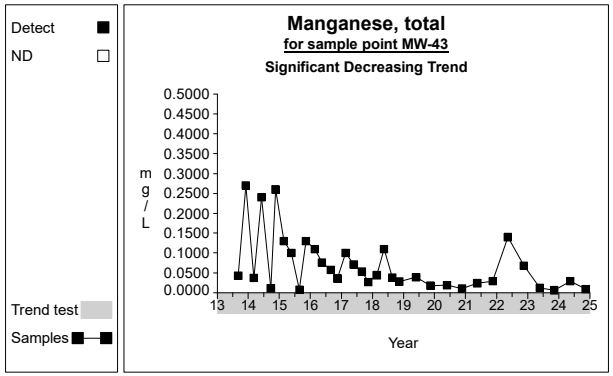
Graph 254



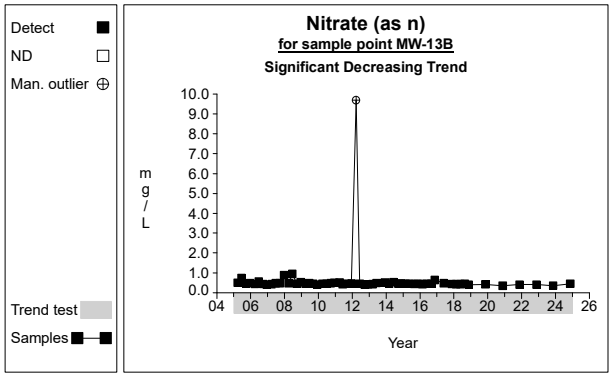
Graph 255



Graph 271

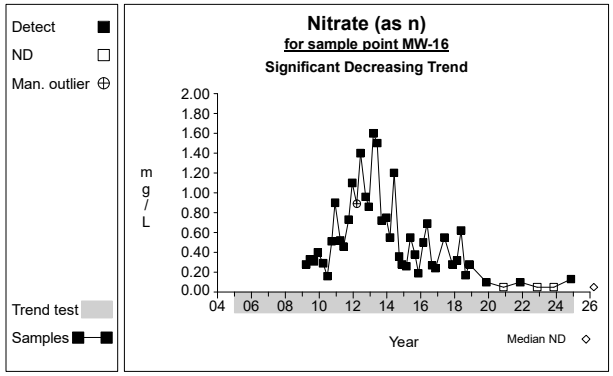


Graph 272

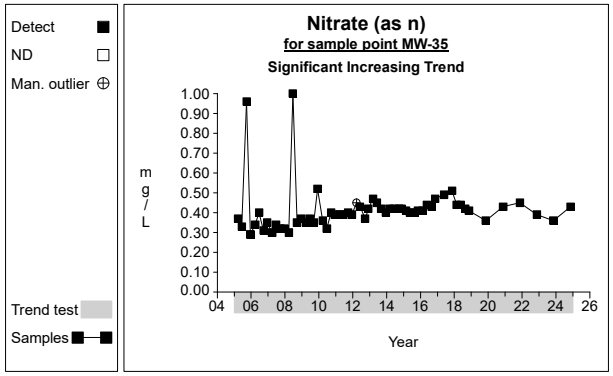


Graph 290

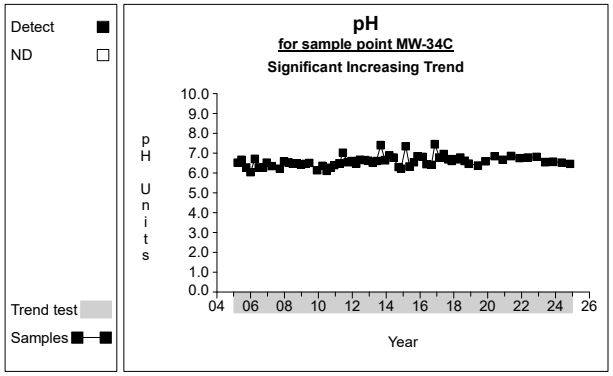
Time Series



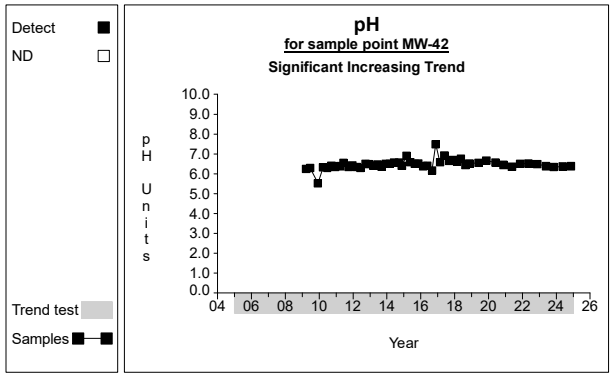
Graph 292



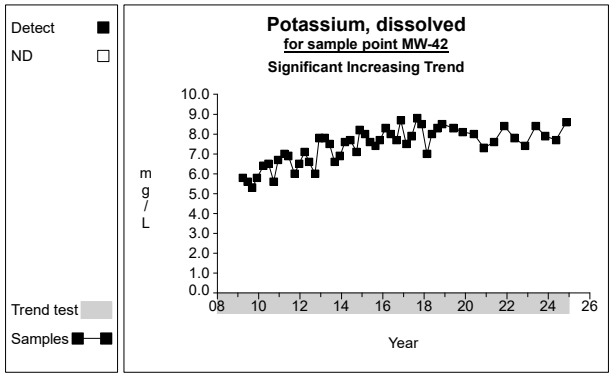
Graph 300



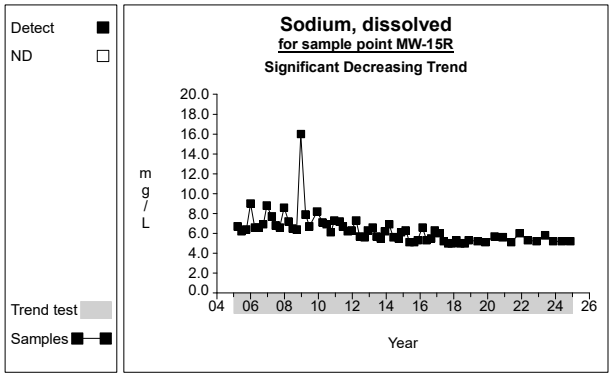
Graph 315



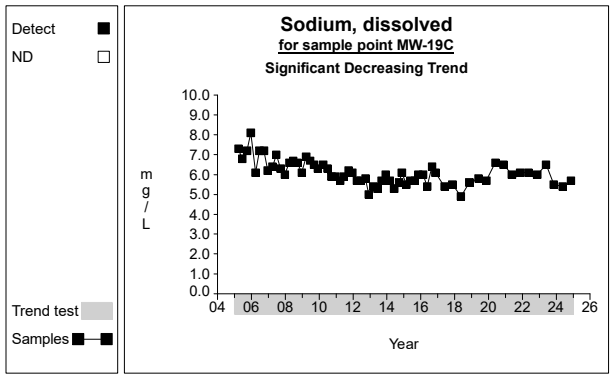
Graph 319



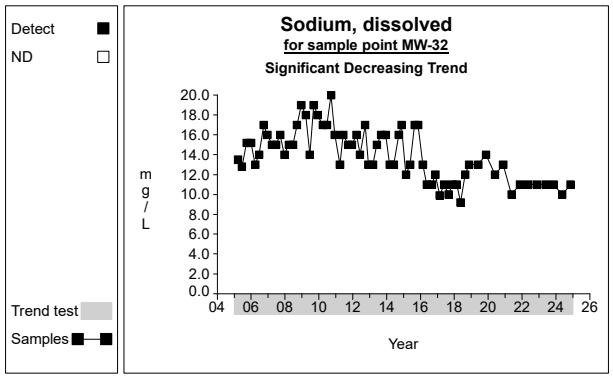
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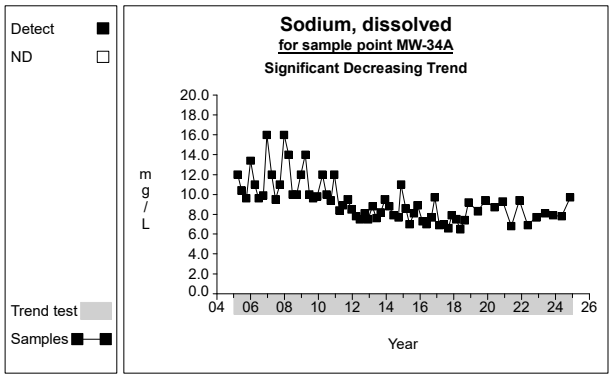
Graph 371



Graph 373

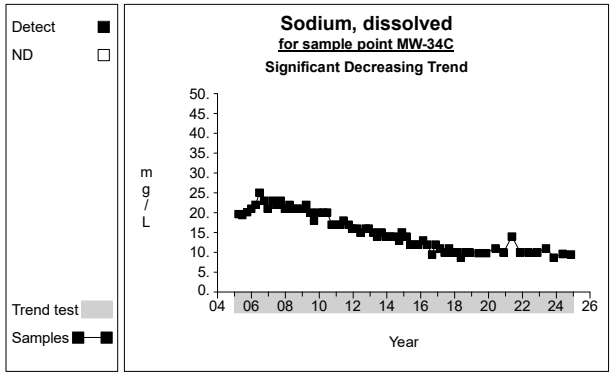


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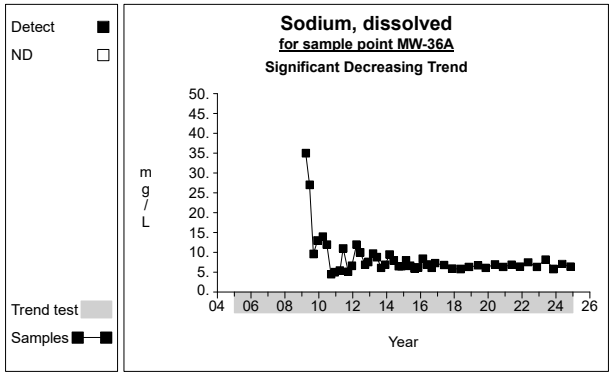


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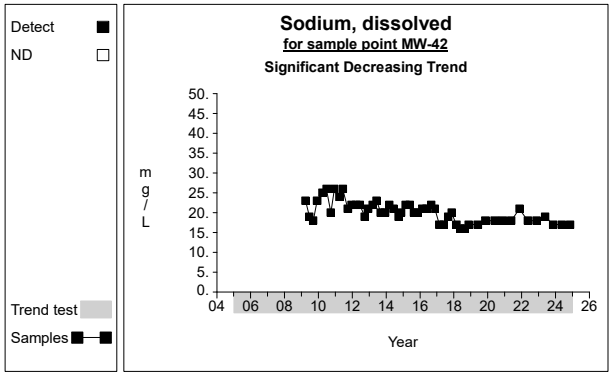
Time Series



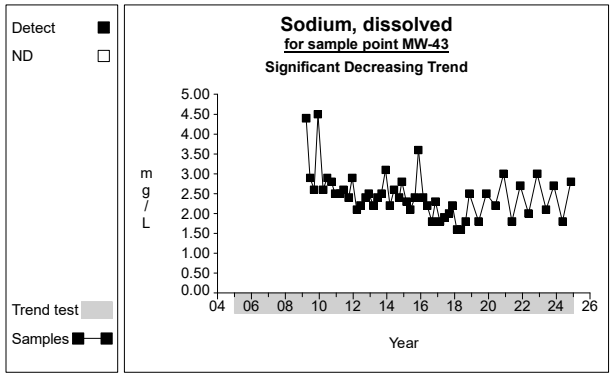
Graph 379



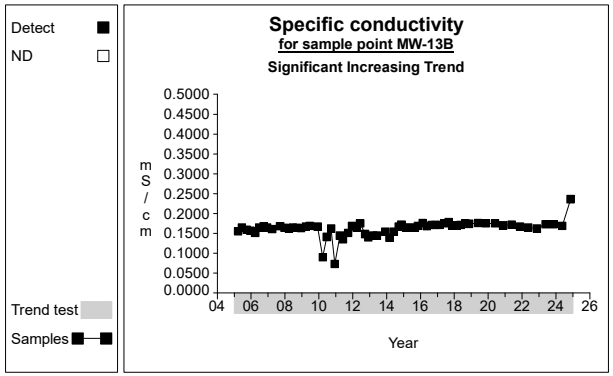
Graph 381



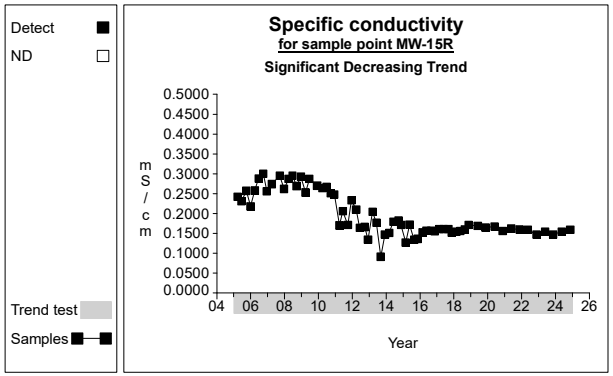
Graph 383



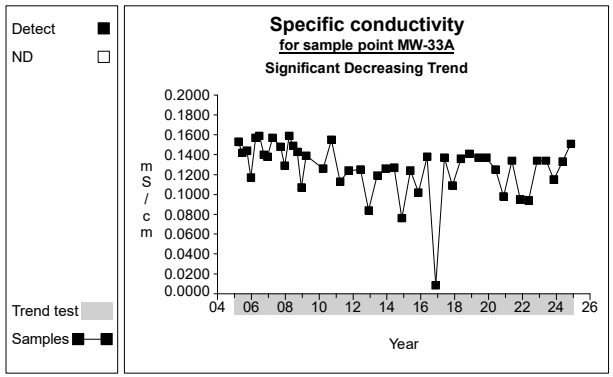
Graph 384



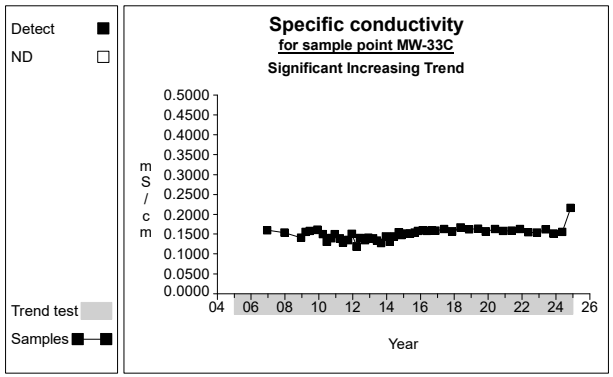
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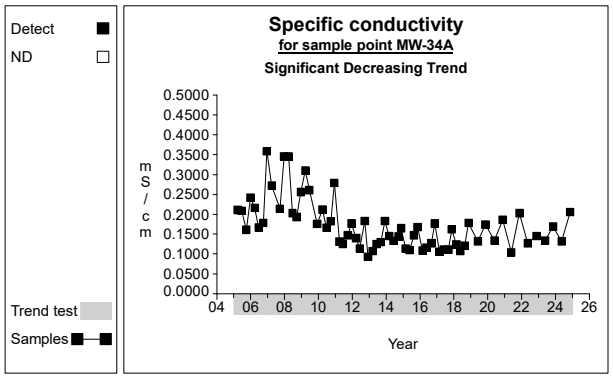
Graph 387



Graph 392

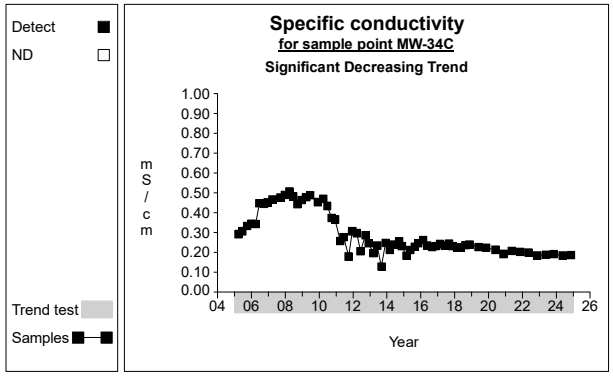


Graph 393

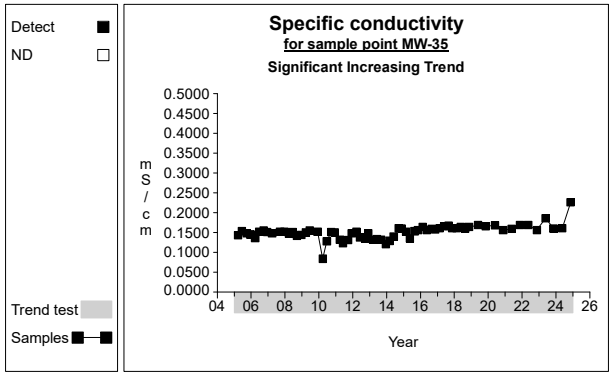


Graph 394

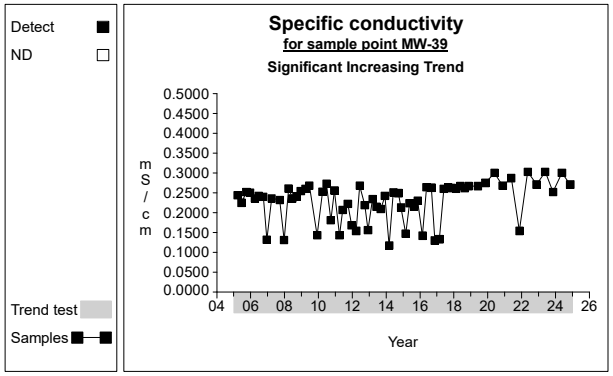
Time Series



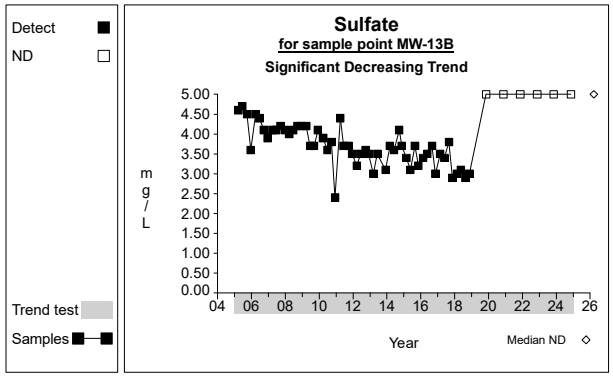
Graph 395



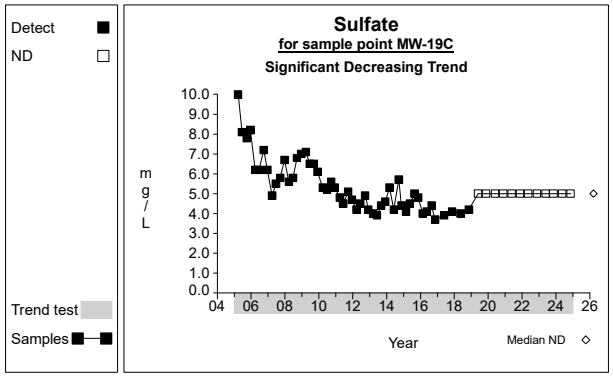
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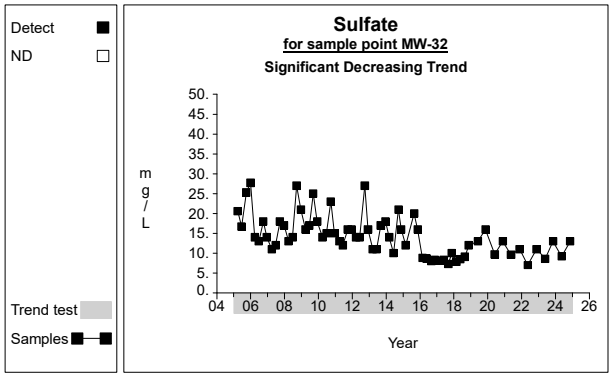
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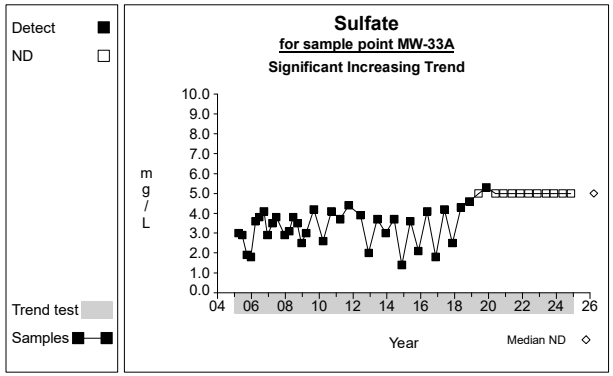
Graph 402



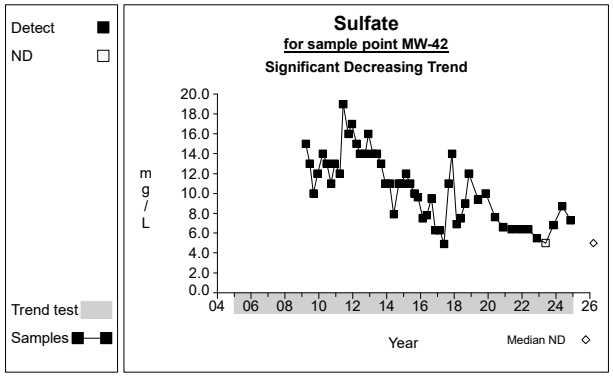
Graph 405



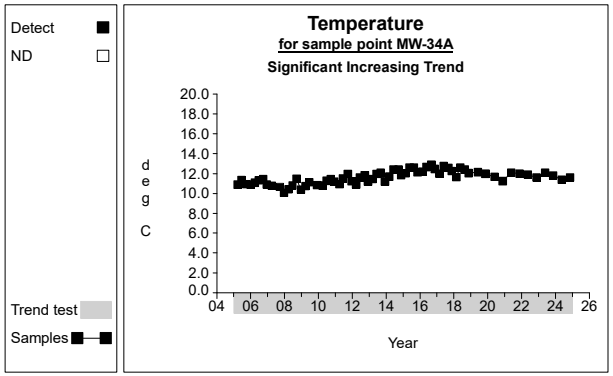
Graph 407



Graph 408

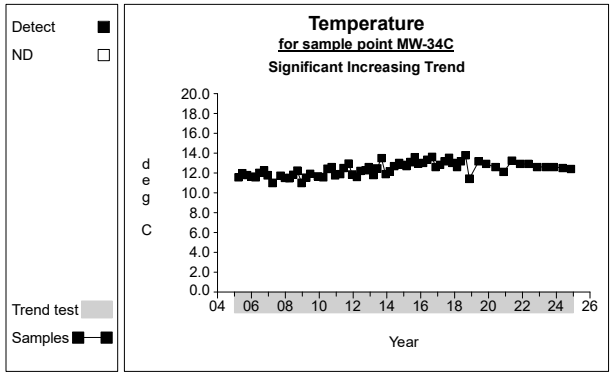


Graph 415

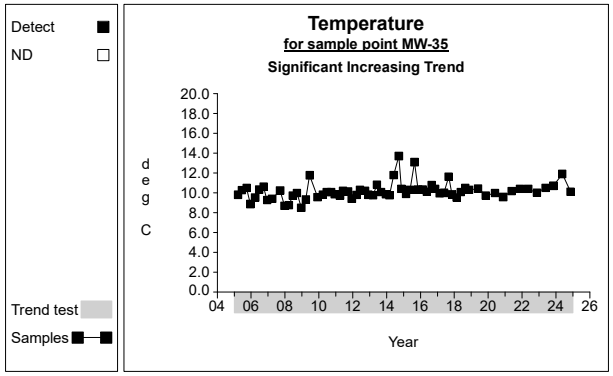


Graph 426

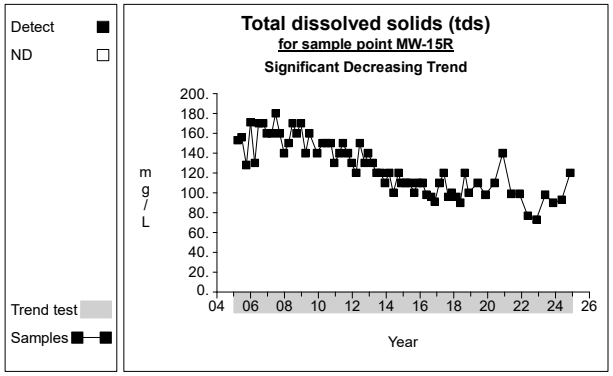
Time Series



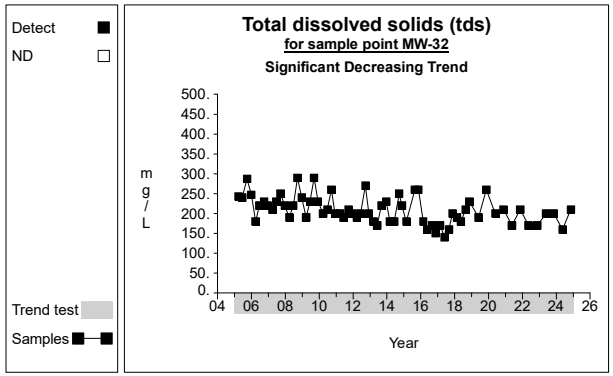
Graph 427



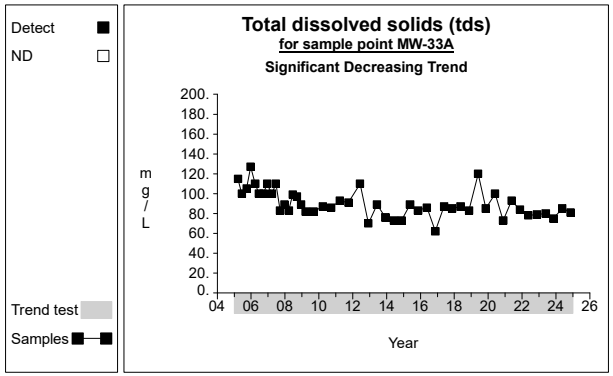
Graph 428



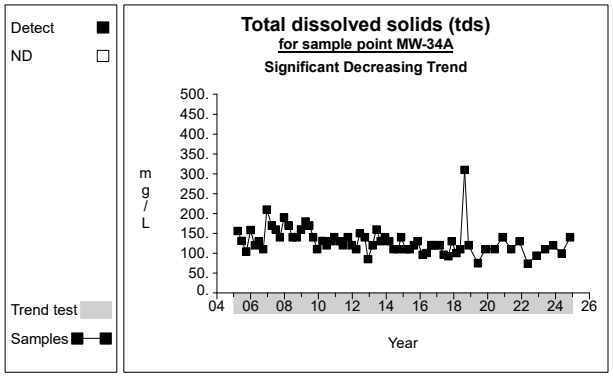
Graph 451



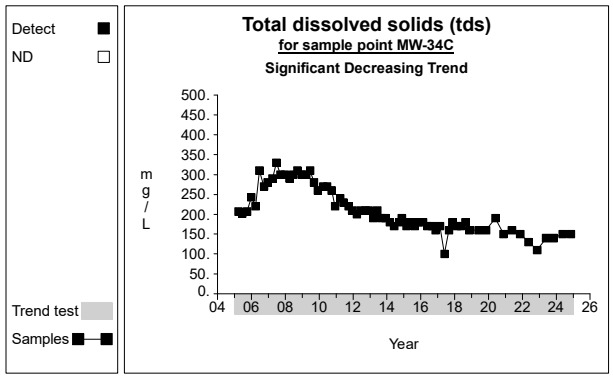
Graph 455



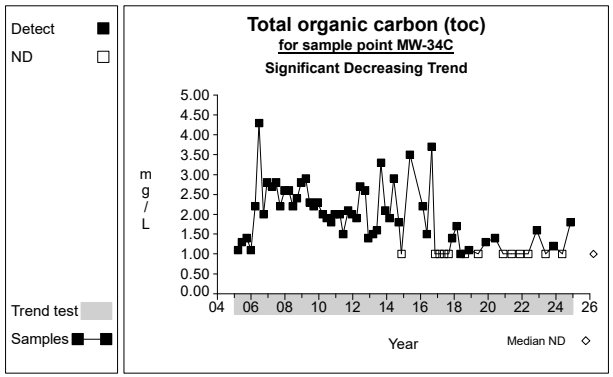
Graph 456



Graph 458



Graph 459



Graph 475

2. Prediction Limits for Detection Monitoring

- 2024 Prediction Limits and Q4 2024 Exeedance Summary Table (Table 2-1)
- Updated Prediction Limits for Use During 2025 Monitoring Year (Table 2-2)
- Upgradient Data used in 2025 Prediction Limit Calculations (Table 2-3)
- Results of Shapiro-Wilk Test for Normality for 2025 Upgradient Data (Table 2-4)
- Comparison of 2025 Prediction Limits with 2024 Prediction Limits (Table 2-5)

TABLE 2-1
SUMMARY OF CURRENT PREDICTION LIMIT EXCEEDANCES
Q4 2024
Olympic View Sanitary Landfill

Statistical Methodology:

1. Inter-Well Prediction Limits using DUMPStat™
2. Upgradient Data Set: pooled data from wells MW-13A, MW-13B, MW-16, and MW-35
3. "Detection Monitoring" well comparisons:
   - complance wells: MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43
   - downgradient wells: MW-29A, MW-32, MW-33A, MW-33C, MW-36A
4. Parameters: all Appendix I and II inorganic and ground water quality parameters
5. Background Data Sets: January 2005 - December 2023
6. Arsenic: only low-level Method 200.8 data used
7. Units: mg/L = milligrams per liter; ug/L = micrograms per liter; mS/cm = millisiemens per centimeter; deg C = degrees Celcius

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Alkalinity, bicarbonate (as caco3)	mg/L	MW-32	140	11/13/2024	96
Alkalinity, bicarbonate (as caco3)	mg/L	MW-42	180	11/13/2024	96
Alkalinity, total (as caco3)	mg/L	MW-32	140	11/13/2024	96
Alkalinity, total (as caco3)	mg/L	MW-42	180	11/13/2024	96
Ammonia (as n)	mg/L	MW-39	0.42	11/14/2024	0.28
Ammonia (as n)	mg/L	MW-42	2.5	11/13/2024	0.28
Arsenic, total	ug/L	MW-29A	2.2	11/13/2024	0.481
Arsenic, total	ug/L	MW-32	9.3	11/13/2024	0.481
Arsenic, total	ug/L	MW-33C	2.7	11/14/2024	0.481
Arsenic, total	ug/L	MW-34A	3	11/13/2024	0.481
Arsenic, total	ug/L	MW-34C	13.4	11/13/2024	0.481
Arsenic, total	ug/L	MW-36A	0.499	11/14/2024	0.481
Arsenic, total	ug/L	MW-39	1.23	11/14/2024	0.481
Arsenic, total	ug/L	MW-42	2.5	11/13/2024	0.481
Barium, total	mg/L	MW-15R	0.0046	11/14/2024	0.0045
Barium, total	mg/L	MW-29A	0.0052	11/13/2024	0.0045
Barium, total	mg/L	MW-32	0.0054	11/13/2024	0.0045
Barium, total	mg/L	MW-33C	0.005	11/14/2024	0.0045
Barium, total	mg/L	MW-34C	0.34	11/13/2024	0.0045
Barium, total	mg/L	MW-39	0.014	11/14/2024	0.0045
Barium, total	mg/L	MW-42	0.081	11/13/2024	0.0045
Cadmium, total	mg/L	MW-34C	0.0005	11/13/2024	0.0003
Calcium, dissolved	mg/L	MW-32	30	11/13/2024	18
Calcium, dissolved	mg/L	MW-34A	19	11/13/2024	18
Calcium, dissolved	mg/L	MW-42	40	11/13/2024	18
Chloride	mg/L	MW-32	8.7	11/13/2024	4.4
Chloride	mg/L	MW-39	5.1	11/14/2024	4.4

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Chloride	mg/L	MW-42	8.9	11/13/2024	4.4
Cobalt, total	mg/L	MW-34C	0.025	11/13/2024	0.003
Cobalt, total	mg/L	MW-39	0.0079	11/14/2024	0.003
Copper, total	mg/L	MW-34C	0.0044	11/13/2024	0.0021
Iron, total	mg/L	MW-29A	3.6	11/13/2024	0.31
Iron, total	mg/L	MW-32	0.69	11/13/2024	0.31
Iron, total	mg/L	MW-33A	1.3	11/14/2024	0.31
Iron, total	mg/L	MW-34C	38	11/13/2024	0.31
Iron, total	mg/L	MW-39	35	11/14/2024	0.31
Iron, total	mg/L	MW-42	20	11/13/2024	0.31
Magnesium, dissolved	mg/L	MW-32	15	11/13/2024	11.2
Magnesium, dissolved	mg/L	MW-42	14	11/13/2024	11.2
Manganese, total	mg/L	MW-29A	1.2	11/13/2024	0.11
Manganese, total	mg/L	MW-32	2.1	11/13/2024	0.11
Manganese, total	mg/L	MW-33C	0.22	11/14/2024	0.11
Manganese, total	mg/L	MW-34C	37	11/13/2024	0.11
Manganese, total	mg/L	MW-39	0.45	11/14/2024	0.11
Manganese, total	mg/L	MW-42	3	11/13/2024	0.11
pH	pH Units	MW-43	5.58	11/13/2024	5.82 - 8.20
Potassium, dissolved	mg/L	MW-42	8.6	11/13/2024	1.4
Sodium, dissolved	mg/L	MW-32	11	11/13/2024	7.7
Sodium, dissolved	mg/L	MW-34A	9.7	11/13/2024	7.7
Sodium, dissolved	mg/L	MW-34C	9.5	11/13/2024	7.7
Sodium, dissolved	mg/L	MW-39	9.2	11/14/2024	7.7
Sodium, dissolved	mg/L	MW-42	17	11/13/2024	7.7
Specific conductivity	mS/cm	MW-32	0.308	11/13/2024	0.19
Specific conductivity	mS/cm	MW-33C	0.216	11/14/2024	0.19
Specific conductivity	mS/cm	MW-34A	0.206	11/13/2024	0.19
Specific conductivity	mS/cm	MW-39	0.271	11/14/2024	0.19
Specific conductivity	mS/cm	MW-42	0.451	11/13/2024	0.19
Sulfate	mg/L	MW-32	13	11/13/2024	9.9
Total dissolved solids (tds)	mg/L	MW-32	210	11/13/2024	175
Total dissolved solids (tds)	mg/L	MW-42	230	11/13/2024	175
Vanadium, total	mg/L	MW-34C	0.0093	11/13/2024	0.009
Zinc, total	mg/L	MW-34C	0.01	11/13/2024	0.0056

TABLE 2-2
STATISTICAL PREDICTION LIMITS UPDATED FOR 2025 MONITORING YEAR
Olympic View Sanitary Landfill

Statistical Methodology:

1. Inter-Well Prediction Limits using DUMPStat
2. Upgradient Data Set: pooled data from wells 13A, 13B, 16, and 35
3. "Detection Monitoring" well comparisons:
   - compliance wells
   - performance well
   - downgradient wells
4. Parameters: all Appendix I and II inorganic and ground water quality parameters
5. Background Data Sets: January 2005 - December 2024 (updated annually)
6. Arsenic: only low-level Method 200.8 data used
7. Units: mg/L = milligrams per liter; ug/L = micrograms per liter; mS/cm = millisiemens per centimeter; deg C = degrees Celcius

Constituent	Units	Distributional Assumption[1]	Total N[2]	Detected N	Mean	Standard Deviation	Prediction Limit[3]	Nonparametric Confidence[4]
Alkalinity, bicarbonate (as caco3)	mg/L	nonparametric	226	226			96	0.99
Alkalinity, total (as caco3)	mg/L	nonparametric	230	230			96	0.99
Ammonia (as n)	mg/L	nonparametric	225	75			0.28	0.99
Antimony, total	mg/L	nonparametric	110	3			0.0013	0.99
Arsenic, total	ug/L	normal	116	116	0.2443	0.1026	0.482	
Barium, total	mg/L	normal	110	110	0.0032	0.0005	0.0045	
Beryllium, total	mg/L	nonparametric	110	0			Current RL*	0.99
Cadmium, total	mg/L	nonparametric	110	0			Current RL*	0.99
Calcium, dissolved	mg/L	nonparametric	230	230			18	0.99
Chloride	mg/L	nonparametric	230	203			6.3	0.99
Chromium, total	mg/L	nonparametric	110	48			0.019	0.99
Cobalt, total	mg/L	nonparametric	110	0			Current RL*	0.99
Copper, total	mg/L	nonparametric	110	1			0.0021	0.99
Iron, total	mg/L	nonparametric	109	13			0.31	0.99
Lead, total	mg/L	nonparametric	110	1			0.0014	0.99
Magnesium, dissolved	mg/L	normal	230	230	8.177	1.3067	11.2	
Manganese, total	mg/L	nonparametric	110	31			0.11	0.99
Nickel, total	mg/L	nonparametric	110	2			0.0055	0.99
Nitrate (as n)	mg/L	nonparametric	217	214			1.6	0.99
pH	pH Units	normal	245	245	7.0049	0.4679	5.81 - 8.20	
Potassium, dissolved	mg/L	nonparametric	230	15			1.4	0.99
Selenium, total	mg/L	nonparametric	110	0			Current RL*	0.99
Silver, total	mg/L	nonparametric	110	0			Current RL*	0.99
Sodium, dissolved	mg/L	nonparametric	230	230			7.7	0.99
Specific conductivity	mS/cm	nonparametric	247	247			0.239	0.99
Sulfate	mg/L	nonparametric	230	205			9.9	0.99
Temperature	deg C	nonparametric	247	247			14.32	0.99
Thallium, total	mg/L	nonparametric	110	0			Current RL*	0.99
Total dissolved solids (tds)	mg/L	nonparametric	230	230			175	0.99
Total organic carbon (toc)	mg/L	nonparametric	218	7			6.0	0.99
Vanadium, total	mg/L	nonparametric	110	109			0.009	0.99
Zinc, total	mg/L	nonparametric	110	1			0.0056	0.99

[1] Distributional Assumption based on Multiple Group Shapiro-Wilk Test (results presented on Table 2-4 herein).

[2] N = number of background data points from the pooled upgradient well data set AFTER removal of outliers (see Table 2-3 for outliers).

[3] Prediction Limit calculated at 95% confidence level and adjusted for multiple comparisons and one verification resample per Unified Guidance (USEPA, March 2009).

[4] Nonparametric confidence level as calculated by DUMPStat.

*Current RL: in cases where all background data are non-detected, a nonparametric prediction limit is set at the current constituent-specific laboratory reporting limit (RL).

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Constituent	Well	Date	ND	Result	Unit	ND Adjust	Flag
Alkalinity, bicarbonate (as caco3)	MW-13A	03/22/2005		75	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/15/2005		63.8	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/27/2005		75.6	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/15/2005		72.5	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/28/2006		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/21/2006		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/26/2006		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/13/2006		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/27/2007		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/19/2007		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/19/2007		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/19/2007		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/25/2008		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/18/2008		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/17/2008		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/17/2008		92	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/24/2009		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/17/2009		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/10/2009		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/25/2010		86	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/23/2010		86	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/23/2010		96	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/08/2010		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/30/2011		88	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/06/2011		89	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/27/2011		89	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/14/2011		90	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/21/2012		89	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/08/2012		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/26/2012		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/03/2012		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/11/2013		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/05/2013		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	12/03/2013		86	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	03/04/2014		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	06/02/2014		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	09/22/2014		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/17/2014		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	02/23/2015		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	05/19/2015		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	08/26/2015		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/10/2015		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	02/22/2016		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	05/16/2016		90	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	08/31/2016		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/14/2016		92	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	02/22/2017		85	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	05/24/2017		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	08/30/2017		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/13/2017		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	02/20/2018		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	05/15/2018		78	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	08/21/2018		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/12/2018		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/11/2019		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/19/2020		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/16/2021		96	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/17/2022		89	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/08/2023		86	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13A	11/14/2024		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/22/2005		70.6	mg/L		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Alkalinity, bicarbonate (as caco3)	MW-13B	06/15/2005		57.3	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/27/2005		72.7	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/15/2005		68.8	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/29/2006		73	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/21/2006		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/26/2006		75	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/13/2006		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/27/2007		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/19/2007		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/18/2007		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/19/2007		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/25/2008		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/18/2008		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/17/2008		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/16/2008		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/24/2009		78	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/17/2009		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/10/2009		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/25/2010		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/23/2010		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/23/2010		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/08/2010		88	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/30/2011		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/06/2011		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/27/2011		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/14/2011		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/21/2012		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/08/2012		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/26/2012		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/03/2012		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/11/2013		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/05/2013		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	12/03/2013		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	03/04/2014		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	06/02/2014		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	09/22/2014		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/17/2014		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	02/23/2015		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	05/19/2015		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	08/26/2015		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/10/2015		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	02/22/2016		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	05/16/2016		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	08/31/2016		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/14/2016		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	02/22/2017		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	05/24/2017		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	08/30/2017		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/13/2017		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	02/20/2018		86	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	05/15/2018		78	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	08/21/2018		81	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/12/2018		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/11/2019		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/19/2020		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/16/2021		95	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/17/2022		89	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/08/2023		85	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-13B	11/14/2024		87	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	03/24/2009		66	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	06/16/2009		59	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	09/09/2009		66	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Alkalinity, bicarbonate (as caco3)	MW-16	03/25/2010		46	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	06/24/2010		71	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	09/24/2010		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	12/09/2010		72	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	03/30/2011		53	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	06/07/2011		59	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	09/27/2011		66	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	12/13/2011		60	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	03/21/2012		50	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	06/08/2012		49	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	09/27/2012		57	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	12/04/2012		64	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	03/12/2013		51	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	06/04/2013		50	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	09/05/2013		62	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	12/16/2013		62	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	03/05/2014		57	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	06/02/2014		44	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	09/22/2014		57	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/18/2014		57	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	02/23/2015		52	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	05/20/2015		51	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	08/26/2015		51	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/11/2015		65	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	02/24/2016		40	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	05/16/2016		50	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	08/31/2016		60	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/14/2016		56	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	02/22/2017		45	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	05/24/2017		42	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	08/30/2017		61	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/13/2017		50	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	02/20/2018		46	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	05/17/2018		43	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	08/22/2018		51	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/12/2018		53	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/12/2019		68	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/20/2020		85	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/16/2021		85	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/17/2022		67	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/08/2023		63	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-16	11/14/2024		65	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/22/2005		68.2	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/14/2005		59	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/27/2005		69.2	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/15/2005		67.3	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/28/2006		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/21/2006		71	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/26/2006		72	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/12/2006		73	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/27/2007		73	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/20/2007		70	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/18/2007		69	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/20/2007		72	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/25/2008		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/18/2008		72	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/18/2008		72	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/19/2008		68	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/24/2009		72	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/16/2009		73	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/10/2009		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/25/2010		76	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Alkalinity, bicarbonate (as caco3)	MW-35	06/23/2010		75	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/23/2010		75	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/09/2010		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/30/2011		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/06/2011		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/26/2011		78	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/13/2011		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/21/2012		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/06/2012		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/26/2012		78	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/04/2012		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/13/2013		73	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/06/2013		73	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/05/2013		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	12/16/2013		78	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	03/04/2014		78	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	06/02/2014		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	09/22/2014		75	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/17/2014		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	02/25/2015		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	05/19/2015		75	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	08/26/2015		71	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/10/2015		75	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	02/22/2016		72	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	05/16/2016		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	08/31/2016		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/15/2016		91	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	02/22/2017		79	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	05/24/2017		76	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	08/30/2017		74	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/15/2017		77	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	02/20/2018		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	05/17/2018		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	08/22/2018		48	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/12/2018		80	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/12/2019		82	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/19/2020		85	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/16/2021		92	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/17/2022		84	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/08/2023		83	mg/L		
Alkalinity, bicarbonate (as caco3)	MW-35	11/14/2024		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/22/2005		75	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/15/2005		63.8	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/27/2005		75.6	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/15/2005		72.5	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/28/2006		80	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/21/2006		79	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/26/2006		80	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/13/2006		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/27/2007		83	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/19/2007		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/19/2007		79	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/19/2007		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/25/2008		83	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/18/2008		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/17/2008		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/17/2008		92	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/24/2009		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/17/2009		84	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/10/2009		87	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/03/2009		84	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/25/2010		86	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Alkalinity, total (as caco3)	MW-13A	06/23/2010		86	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/23/2010		96	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/08/2010		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/30/2011		88	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/06/2011		89	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/27/2011		89	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/14/2011		90	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/21/2012		89	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/08/2012		87	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/26/2012		87	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/03/2012		83	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/11/2013		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/05/2013		83	mg/L		
Alkalinity, total (as caco3)	MW-13A	12/03/2013		86	mg/L		
Alkalinity, total (as caco3)	MW-13A	03/04/2014		87	mg/L		
Alkalinity, total (as caco3)	MW-13A	06/02/2014		84	mg/L		
Alkalinity, total (as caco3)	MW-13A	09/22/2014		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/17/2014		79	mg/L		
Alkalinity, total (as caco3)	MW-13A	02/23/2015		84	mg/L		
Alkalinity, total (as caco3)	MW-13A	05/19/2015		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	08/26/2015		77	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/10/2015		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	02/22/2016		80	mg/L		
Alkalinity, total (as caco3)	MW-13A	05/16/2016		90	mg/L		
Alkalinity, total (as caco3)	MW-13A	08/31/2016		84	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/14/2016		92	mg/L		
Alkalinity, total (as caco3)	MW-13A	02/22/2017		85	mg/L		
Alkalinity, total (as caco3)	MW-13A	05/24/2017		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	08/30/2017		80	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/13/2017		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	02/20/2018		87	mg/L		
Alkalinity, total (as caco3)	MW-13A	05/15/2018		78	mg/L		
Alkalinity, total (as caco3)	MW-13A	08/21/2018		79	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/12/2018		81	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/11/2019		82	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/19/2020		84	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/16/2021		96	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/17/2022		89	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/08/2023		86	mg/L		
Alkalinity, total (as caco3)	MW-13A	11/14/2024		87	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/22/2005		70.6	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/15/2005		57.3	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/27/2005		72.7	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/15/2005		68.8	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/29/2006		73	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/21/2006		74	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/26/2006		75	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/13/2006		76	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/27/2007		76	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/19/2007		74	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/18/2007		74	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/19/2007		76	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/25/2008		77	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/18/2008		77	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/17/2008		76	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/16/2008		74	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/24/2009		78	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/17/2009		79	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/10/2009		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/03/2009		80	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/25/2010		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/23/2010		80	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Alkalinity, total (as caco3)	MW-13B	09/23/2010		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/08/2010		88	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/30/2011		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/06/2011		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/27/2011		83	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/14/2011		84	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/21/2012		83	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/08/2012		82	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/26/2012		84	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/03/2012		82	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/11/2013		77	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/05/2013		79	mg/L		
Alkalinity, total (as caco3)	MW-13B	12/03/2013		84	mg/L		
Alkalinity, total (as caco3)	MW-13B	03/04/2014		83	mg/L		
Alkalinity, total (as caco3)	MW-13B	06/02/2014		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	09/22/2014		80	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/17/2014		79	mg/L		
Alkalinity, total (as caco3)	MW-13B	02/23/2015		82	mg/L		
Alkalinity, total (as caco3)	MW-13B	05/19/2015		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	08/26/2015		76	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/10/2015		79	mg/L		
Alkalinity, total (as caco3)	MW-13B	02/22/2016		77	mg/L		
Alkalinity, total (as caco3)	MW-13B	05/16/2016		87	mg/L		
Alkalinity, total (as caco3)	MW-13B	08/31/2016		82	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/14/2016		80	mg/L		
Alkalinity, total (as caco3)	MW-13B	02/22/2017		83	mg/L		
Alkalinity, total (as caco3)	MW-13B	05/24/2017		80	mg/L		
Alkalinity, total (as caco3)	MW-13B	08/30/2017		80	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/13/2017		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	02/20/2018		86	mg/L		
Alkalinity, total (as caco3)	MW-13B	05/15/2018		78	mg/L		
Alkalinity, total (as caco3)	MW-13B	08/21/2018		81	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/12/2018		83	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/11/2019		83	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/19/2020		84	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/16/2021		95	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/17/2022		89	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/08/2023		85	mg/L		
Alkalinity, total (as caco3)	MW-13B	11/14/2024		87	mg/L		
Alkalinity, total (as caco3)	MW-16	03/24/2009		66	mg/L		
Alkalinity, total (as caco3)	MW-16	06/16/2009		59	mg/L		
Alkalinity, total (as caco3)	MW-16	09/09/2009		66	mg/L		
Alkalinity, total (as caco3)	MW-16	12/03/2009		77	mg/L		
Alkalinity, total (as caco3)	MW-16	03/25/2010		46	mg/L		
Alkalinity, total (as caco3)	MW-16	06/24/2010		71	mg/L		
Alkalinity, total (as caco3)	MW-16	09/24/2010		74	mg/L		
Alkalinity, total (as caco3)	MW-16	12/09/2010		72	mg/L		
Alkalinity, total (as caco3)	MW-16	03/30/2011		53	mg/L		
Alkalinity, total (as caco3)	MW-16	06/07/2011		59	mg/L		
Alkalinity, total (as caco3)	MW-16	09/27/2011		66	mg/L		
Alkalinity, total (as caco3)	MW-16	12/13/2011		60	mg/L		
Alkalinity, total (as caco3)	MW-16	03/21/2012		50	mg/L		
Alkalinity, total (as caco3)	MW-16	06/08/2012		49	mg/L		
Alkalinity, total (as caco3)	MW-16	09/27/2012		57	mg/L		
Alkalinity, total (as caco3)	MW-16	12/04/2012		64	mg/L		
Alkalinity, total (as caco3)	MW-16	03/12/2013		51	mg/L		
Alkalinity, total (as caco3)	MW-16	06/04/2013		50	mg/L		
Alkalinity, total (as caco3)	MW-16	09/05/2013		62	mg/L		
Alkalinity, total (as caco3)	MW-16	12/16/2013		62	mg/L		
Alkalinity, total (as caco3)	MW-16	03/05/2014		57	mg/L		
Alkalinity, total (as caco3)	MW-16	06/02/2014		44	mg/L		
Alkalinity, total (as caco3)	MW-16	09/22/2014		57	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Alkalinity, total (as caco3)	MW-16	11/18/2014		57	mg/L		
Alkalinity, total (as caco3)	MW-16	02/23/2015		52	mg/L		
Alkalinity, total (as caco3)	MW-16	05/20/2015		51	mg/L		
Alkalinity, total (as caco3)	MW-16	08/26/2015		51	mg/L		
Alkalinity, total (as caco3)	MW-16	11/11/2015		65	mg/L		
Alkalinity, total (as caco3)	MW-16	02/24/2016		40	mg/L		
Alkalinity, total (as caco3)	MW-16	05/16/2016		50	mg/L		
Alkalinity, total (as caco3)	MW-16	08/31/2016		60	mg/L		
Alkalinity, total (as caco3)	MW-16	11/14/2016		56	mg/L		
Alkalinity, total (as caco3)	MW-16	02/22/2017		45	mg/L		
Alkalinity, total (as caco3)	MW-16	05/24/2017		42	mg/L		
Alkalinity, total (as caco3)	MW-16	08/30/2017		61	mg/L		
Alkalinity, total (as caco3)	MW-16	11/13/2017		50	mg/L		
Alkalinity, total (as caco3)	MW-16	02/20/2018		46	mg/L		
Alkalinity, total (as caco3)	MW-16	05/17/2018		43	mg/L		
Alkalinity, total (as caco3)	MW-16	08/22/2018		51	mg/L		
Alkalinity, total (as caco3)	MW-16	11/12/2018		53	mg/L		
Alkalinity, total (as caco3)	MW-16	11/12/2019		68	mg/L		
Alkalinity, total (as caco3)	MW-16	11/20/2020		85	mg/L		
Alkalinity, total (as caco3)	MW-16	11/16/2021		85	mg/L		
Alkalinity, total (as caco3)	MW-16	11/17/2022		67	mg/L		
Alkalinity, total (as caco3)	MW-16	11/08/2023		63	mg/L		
Alkalinity, total (as caco3)	MW-16	11/14/2024		65	mg/L		
Alkalinity, total (as caco3)	MW-35	03/22/2005		68.2	mg/L		
Alkalinity, total (as caco3)	MW-35	06/14/2005		59	mg/L		
Alkalinity, total (as caco3)	MW-35	09/27/2005		69.2	mg/L		
Alkalinity, total (as caco3)	MW-35	12/15/2005		67.3	mg/L		
Alkalinity, total (as caco3)	MW-35	03/28/2006		73	mg/L		
Alkalinity, total (as caco3)	MW-35	06/21/2006		71	mg/L		
Alkalinity, total (as caco3)	MW-35	09/26/2006		72	mg/L		
Alkalinity, total (as caco3)	MW-35	12/12/2006		73	mg/L		
Alkalinity, total (as caco3)	MW-35	03/27/2007		73	mg/L		
Alkalinity, total (as caco3)	MW-35	06/20/2007		70	mg/L		
Alkalinity, total (as caco3)	MW-35	09/18/2007		69	mg/L		
Alkalinity, total (as caco3)	MW-35	12/20/2007		72	mg/L		
Alkalinity, total (as caco3)	MW-35	03/25/2008		77	mg/L		
Alkalinity, total (as caco3)	MW-35	06/18/2008		72	mg/L		
Alkalinity, total (as caco3)	MW-35	09/18/2008		72	mg/L		
Alkalinity, total (as caco3)	MW-35	12/19/2008		68	mg/L		
Alkalinity, total (as caco3)	MW-35	03/24/2009		72	mg/L		
Alkalinity, total (as caco3)	MW-35	06/16/2009		73	mg/L		
Alkalinity, total (as caco3)	MW-35	09/10/2009		74	mg/L		
Alkalinity, total (as caco3)	MW-35	12/03/2009		74	mg/L		
Alkalinity, total (as caco3)	MW-35	03/25/2010		76	mg/L		
Alkalinity, total (as caco3)	MW-35	06/23/2010		75	mg/L		
Alkalinity, total (as caco3)	MW-35	09/23/2010		75	mg/L		
Alkalinity, total (as caco3)	MW-35	12/09/2010		74	mg/L		
Alkalinity, total (as caco3)	MW-35	03/30/2011		77	mg/L		
Alkalinity, total (as caco3)	MW-35	06/06/2011		76	mg/L		
Alkalinity, total (as caco3)	MW-35	09/26/2011		78	mg/L		
Alkalinity, total (as caco3)	MW-35	12/13/2011		77	mg/L		
Alkalinity, total (as caco3)	MW-35	03/21/2012		77	mg/L		
Alkalinity, total (as caco3)	MW-35	06/06/2012		77	mg/L		
Alkalinity, total (as caco3)	MW-35	09/26/2012		78	mg/L		
Alkalinity, total (as caco3)	MW-35	12/04/2012		76	mg/L		
Alkalinity, total (as caco3)	MW-35	03/13/2013		73	mg/L		
Alkalinity, total (as caco3)	MW-35	06/06/2013		73	mg/L		
Alkalinity, total (as caco3)	MW-35	09/05/2013		77	mg/L		
Alkalinity, total (as caco3)	MW-35	12/16/2013		78	mg/L		
Alkalinity, total (as caco3)	MW-35	03/04/2014		78	mg/L		
Alkalinity, total (as caco3)	MW-35	06/02/2014		76	mg/L		
Alkalinity, total (as caco3)	MW-35	09/22/2014		75	mg/L		

* = outlier for that well/constituent

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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Alkalinity, total (as caco3)	MW-35	11/17/2014		74	mg/L		
Alkalinity, total (as caco3)	MW-35	02/25/2015		77	mg/L		
Alkalinity, total (as caco3)	MW-35	05/19/2015		75	mg/L		
Alkalinity, total (as caco3)	MW-35	08/26/2015		71	mg/L		
Alkalinity, total (as caco3)	MW-35	11/10/2015		75	mg/L		
Alkalinity, total (as caco3)	MW-35	02/22/2016		72	mg/L		
Alkalinity, total (as caco3)	MW-35	05/16/2016		82	mg/L		
Alkalinity, total (as caco3)	MW-35	08/31/2016		77	mg/L		
Alkalinity, total (as caco3)	MW-35	11/15/2016		91	mg/L		
Alkalinity, total (as caco3)	MW-35	02/22/2017		79	mg/L		
Alkalinity, total (as caco3)	MW-35	05/24/2017		76	mg/L		
Alkalinity, total (as caco3)	MW-35	08/30/2017		74	mg/L		
Alkalinity, total (as caco3)	MW-35	11/15/2017		77	mg/L		
Alkalinity, total (as caco3)	MW-35	02/20/2018		82	mg/L		
Alkalinity, total (as caco3)	MW-35	05/17/2018		80	mg/L		
Alkalinity, total (as caco3)	MW-35	08/22/2018		48	mg/L		
Alkalinity, total (as caco3)	MW-35	11/12/2018		80	mg/L		
Alkalinity, total (as caco3)	MW-35	11/12/2019		82	mg/L		
Alkalinity, total (as caco3)	MW-35	11/19/2020		85	mg/L		
Alkalinity, total (as caco3)	MW-35	11/16/2021		92	mg/L		
Alkalinity, total (as caco3)	MW-35	11/17/2022		84	mg/L		
Alkalinity, total (as caco3)	MW-35	11/08/2023		83	mg/L		
Alkalinity, total (as caco3)	MW-35	11/14/2024		81	mg/L		
Ammonia (as n)	MW-13A	03/22/2005		0.02	mg/L		
Ammonia (as n)	MW-13A	06/15/2005		0.13	mg/L		
Ammonia (as n)	MW-13A	09/27/2005		0.021	mg/L		
Ammonia (as n)	MW-13A	12/15/2005	ND	0.02	mg/L	0.03	**
Ammonia (as n)	MW-13A	03/28/2006		0.049	mg/L		
Ammonia (as n)	MW-13A	06/21/2006		0.068	mg/L		
Ammonia (as n)	MW-13A	09/26/2006		0.036	mg/L		
Ammonia (as n)	MW-13A	12/13/2006	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	03/27/2007	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	06/19/2007	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	09/19/2007	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	12/19/2007		0.042	mg/L		
Ammonia (as n)	MW-13A	03/25/2008		0.05	mg/L		
Ammonia (as n)	MW-13A	06/18/2008	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	09/17/2008	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	12/17/2008		0.063	mg/L		
Ammonia (as n)	MW-13A	03/24/2009		0.083	mg/L		
Ammonia (as n)	MW-13A	06/17/2009		0.093	mg/L		
Ammonia (as n)	MW-13A	09/10/2009	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	12/03/2009		0.059	mg/L		
Ammonia (as n)	MW-13A	03/25/2010		0.046	mg/L		
Ammonia (as n)	MW-13A	06/23/2010	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	09/23/2010		0.049	mg/L		
Ammonia (as n)	MW-13A	12/08/2010		0.061	mg/L		
Ammonia (as n)	MW-13A	03/30/2011		0.064	mg/L		
Ammonia (as n)	MW-13A	06/06/2011	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	09/27/2011		0.075	mg/L		
Ammonia (as n)	MW-13A	12/14/2011		0.086	mg/L		
Ammonia (as n)	MW-13A	03/21/2012		0.039	mg/L		
Ammonia (as n)	MW-13A	06/08/2012		0.28	mg/L		
Ammonia (as n)	MW-13A	09/26/2012		0.087	mg/L		
Ammonia (as n)	MW-13A	12/03/2012		0.12	mg/L		
Ammonia (as n)	MW-13A	03/11/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	06/05/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	12/03/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	03/04/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	06/02/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	09/22/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/17/2014	ND	0.03	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Ammonia (as n)	MW-13A	02/23/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	05/19/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	08/26/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/10/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	02/22/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	05/16/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	08/31/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/14/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	02/22/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	05/24/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	08/30/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/13/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	02/20/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	05/15/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	08/21/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/12/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/11/2019	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/19/2020	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/16/2021		0.052	mg/L		
Ammonia (as n)	MW-13A	11/17/2022	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/08/2023	ND	0.03	mg/L		
Ammonia (as n)	MW-13A	11/14/2024	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	03/22/2005	ND	0.02	mg/L	0.03	**
Ammonia (as n)	MW-13B	06/15/2005		0.12	mg/L		
Ammonia (as n)	MW-13B	09/27/2005		0.17	mg/L		
Ammonia (as n)	MW-13B	12/15/2005	ND	0.02	mg/L	0.03	**
Ammonia (as n)	MW-13B	03/29/2006		0.036	mg/L		
Ammonia (as n)	MW-13B	06/21/2006	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	09/26/2006		0.03	mg/L		
Ammonia (as n)	MW-13B	12/13/2006	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	03/27/2007	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	06/19/2007		0.03	mg/L		
Ammonia (as n)	MW-13B	12/19/2007		0.11	mg/L		
Ammonia (as n)	MW-13B	03/25/2008		0.06	mg/L		
Ammonia (as n)	MW-13B	06/18/2008	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	09/17/2008	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	12/16/2008		0.056	mg/L		
Ammonia (as n)	MW-13B	03/24/2009		0.063	mg/L		
Ammonia (as n)	MW-13B	06/17/2009		0.087	mg/L		
Ammonia (as n)	MW-13B	09/10/2009		0.045	mg/L		
Ammonia (as n)	MW-13B	12/03/2009	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	03/25/2010		0.044	mg/L		
Ammonia (as n)	MW-13B	06/23/2010	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	09/23/2010		0.045	mg/L		
Ammonia (as n)	MW-13B	12/08/2010		0.052	mg/L		
Ammonia (as n)	MW-13B	03/30/2011		0.062	mg/L		
Ammonia (as n)	MW-13B	06/06/2011	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	09/27/2011		0.032	mg/L		
Ammonia (as n)	MW-13B	12/14/2011		0.03	mg/L		
Ammonia (as n)	MW-13B	03/21/2012	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	06/08/2012		0.2	mg/L		
Ammonia (as n)	MW-13B	09/26/2012		0.076	mg/L		
Ammonia (as n)	MW-13B	12/03/2012	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	03/11/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	06/05/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	12/03/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	03/04/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	06/02/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	09/22/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/17/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	02/23/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	05/19/2015	ND	0.03	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Ammonia (as n)	MW-13B	08/26/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/10/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	02/22/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	05/16/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	08/31/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/14/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	02/22/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	05/24/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	08/30/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/13/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	02/20/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	05/15/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	08/21/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/12/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/11/2019	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/19/2020	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/16/2021	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/17/2022	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/08/2023	ND	0.03	mg/L		
Ammonia (as n)	MW-13B	11/14/2024	ND	0.03	mg/L		
Ammonia (as n)	MW-16	03/24/2009		0.062	mg/L		
Ammonia (as n)	MW-16	06/16/2009		0.093	mg/L		
Ammonia (as n)	MW-16	09/09/2009		0.036	mg/L		
Ammonia (as n)	MW-16	12/03/2009		0.058	mg/L		
Ammonia (as n)	MW-16	03/25/2010		0.046	mg/L		
Ammonia (as n)	MW-16	06/24/2010	ND	0.03	mg/L		
Ammonia (as n)	MW-16	09/24/2010	ND	0.03	mg/L		
Ammonia (as n)	MW-16	12/09/2010		0.059	mg/L		
Ammonia (as n)	MW-16	03/30/2011		0.06	mg/L		
Ammonia (as n)	MW-16	06/07/2011		0.048	mg/L		
Ammonia (as n)	MW-16	09/27/2011	ND	0.03	mg/L		
Ammonia (as n)	MW-16	12/13/2011	ND	0.03	mg/L		
Ammonia (as n)	MW-16	03/21/2012		0.042	mg/L		
Ammonia (as n)	MW-16	06/08/2012		0.34	mg/L		*
Ammonia (as n)	MW-16	09/27/2012		0.3	mg/L		*
Ammonia (as n)	MW-16	12/04/2012	ND	0.03	mg/L		
Ammonia (as n)	MW-16	03/12/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-16	06/04/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-16	09/05/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-16	12/16/2013		0.096	mg/L		
Ammonia (as n)	MW-16	03/05/2014		0.051	mg/L		
Ammonia (as n)	MW-16	06/02/2014		0.058	mg/L		
Ammonia (as n)	MW-16	09/22/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/18/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-16	02/23/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-16	05/20/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-16	08/26/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/11/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-16	02/24/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-16	05/16/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-16	08/31/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/14/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-16	02/22/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-16	05/24/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-16	08/30/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/13/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-16	02/20/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-16	05/17/2018		0.031	mg/L		
Ammonia (as n)	MW-16	08/22/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/12/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/12/2019	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/20/2020	ND	0.03	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Ammonia (as n)	MW-16	11/16/2021	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/17/2022	ND	0.03	mg/L		
Ammonia (as n)	MW-16	11/08/2023		0.12	mg/L		
Ammonia (as n)	MW-16	11/14/2024	ND	0.03	mg/L		
Ammonia (as n)	MW-35	03/22/2005	ND	0.02	mg/L	0.03	**
Ammonia (as n)	MW-35	06/14/2005		0.12	mg/L		
Ammonia (as n)	MW-35	09/27/2005		0.15	mg/L		
Ammonia (as n)	MW-35	12/15/2005	ND	0.02	mg/L	0.03	**
Ammonia (as n)	MW-35	03/28/2006	ND	0.03	mg/L		
Ammonia (as n)	MW-35	06/21/2006	ND	0.03	mg/L		
Ammonia (as n)	MW-35	09/26/2006		0.033	mg/L		
Ammonia (as n)	MW-35	12/12/2006	ND	0.03	mg/L		
Ammonia (as n)	MW-35	03/27/2007	ND	0.03	mg/L		
Ammonia (as n)	MW-35	06/20/2007		0.042	mg/L		
Ammonia (as n)	MW-35	12/20/2007		0.06	mg/L		
Ammonia (as n)	MW-35	03/25/2008		0.059	mg/L		
Ammonia (as n)	MW-35	06/18/2008	ND	0.03	mg/L		
Ammonia (as n)	MW-35	09/18/2008	ND	0.03	mg/L		
Ammonia (as n)	MW-35	12/19/2008		0.081	mg/L		
Ammonia (as n)	MW-35	03/24/2009		0.06	mg/L		
Ammonia (as n)	MW-35	06/16/2009		0.066	mg/L		
Ammonia (as n)	MW-35	09/10/2009	ND	0.03	mg/L		
Ammonia (as n)	MW-35	12/03/2009		0.076	mg/L		
Ammonia (as n)	MW-35	03/25/2010		0.041	mg/L		
Ammonia (as n)	MW-35	06/23/2010	ND	0.03	mg/L		
Ammonia (as n)	MW-35	09/23/2010		0.053	mg/L		
Ammonia (as n)	MW-35	12/09/2010		0.055	mg/L		
Ammonia (as n)	MW-35	03/30/2011		0.063	mg/L		
Ammonia (as n)	MW-35	06/06/2011		0.18	mg/L		
Ammonia (as n)	MW-35	09/26/2011		0.065	mg/L		
Ammonia (as n)	MW-35	12/13/2011	ND	0.03	mg/L		
Ammonia (as n)	MW-35	03/21/2012		0.03	mg/L		
Ammonia (as n)	MW-35	06/06/2012		0.6	mg/L		*
Ammonia (as n)	MW-35	09/26/2012		0.069	mg/L		
Ammonia (as n)	MW-35	12/04/2012	ND	0.03	mg/L		
Ammonia (as n)	MW-35	03/13/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-35	06/06/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-35	09/05/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-35	12/16/2013	ND	0.03	mg/L		
Ammonia (as n)	MW-35	03/04/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-35	06/02/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-35	09/22/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/17/2014	ND	0.03	mg/L		
Ammonia (as n)	MW-35	02/25/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-35	05/19/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-35	08/26/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/10/2015	ND	0.03	mg/L		
Ammonia (as n)	MW-35	02/22/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-35	05/16/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-35	08/31/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/15/2016	ND	0.03	mg/L		
Ammonia (as n)	MW-35	02/22/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-35	05/24/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-35	08/30/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/15/2017	ND	0.03	mg/L		
Ammonia (as n)	MW-35	02/20/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-35	05/17/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-35	08/22/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/12/2018	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/12/2019	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/19/2020	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/16/2021	ND	0.03	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Ammonia (as n)	MW-35	11/17/2022	ND	0.03	mg/L		
Ammonia (as n)	MW-35	11/08/2023		0.037	mg/L		
Ammonia (as n)	MW-35	11/14/2024	ND	0.03	mg/L		
Antimony, total	MW-13A	12/03/2013	ND	0.001	mg/L		
Antimony, total	MW-13A	03/04/2014	ND	0.001	mg/L		
Antimony, total	MW-13A	06/02/2014	ND	0.001	mg/L		
Antimony, total	MW-13A	09/22/2014	ND	0.001	mg/L		
Antimony, total	MW-13A	11/17/2014	ND	0.001	mg/L		
Antimony, total	MW-13A	02/23/2015	ND	0.001	mg/L		
Antimony, total	MW-13A	05/19/2015	ND	0.001	mg/L		
Antimony, total	MW-13A	08/26/2015	ND	0.001	mg/L		
Antimony, total	MW-13A	11/10/2015	ND	0.001	mg/L		
Antimony, total	MW-13A	02/22/2016	ND	0.001	mg/L		
Antimony, total	MW-13A	05/16/2016	ND	0.001	mg/L		
Antimony, total	MW-13A	08/31/2016		0.001	mg/L		
Antimony, total	MW-13A	11/14/2016	ND	0.001	mg/L		
Antimony, total	MW-13A	02/22/2017	ND	0.001	mg/L		
Antimony, total	MW-13A	05/24/2017	ND	0.001	mg/L		
Antimony, total	MW-13A	08/30/2017	ND	0.001	mg/L		
Antimony, total	MW-13A	11/13/2017	ND	0.001	mg/L		
Antimony, total	MW-13A	02/20/2018	ND	0.001	mg/L		
Antimony, total	MW-13A	05/15/2018	ND	0.001	mg/L		
Antimony, total	MW-13A	08/21/2018	ND	0.001	mg/L		
Antimony, total	MW-13A	11/12/2018	ND	0.001	mg/L		
Antimony, total	MW-13A	11/11/2019	ND	0.001	mg/L		
Antimony, total	MW-13A	11/19/2020	ND	0.001	mg/L		
Antimony, total	MW-13A	11/16/2021	ND	0.001	mg/L		
Antimony, total	MW-13A	11/17/2022	ND	0.001	mg/L		
Antimony, total	MW-13A	11/08/2023	ND	0.001	mg/L		
Antimony, total	MW-13A	11/14/2024	ND	0.001	mg/L		
Antimony, total	MW-13B	12/03/2013	ND	0.001	mg/L		
Antimony, total	MW-13B	03/04/2014	ND	0.001	mg/L		
Antimony, total	MW-13B	06/02/2014	ND	0.001	mg/L		
Antimony, total	MW-13B	09/22/2014	ND	0.001	mg/L		
Antimony, total	MW-13B	11/17/2014	ND	0.001	mg/L		
Antimony, total	MW-13B	02/23/2015	ND	0.001	mg/L		
Antimony, total	MW-13B	05/19/2015	ND	0.001	mg/L		
Antimony, total	MW-13B	08/26/2015	ND	0.001	mg/L		
Antimony, total	MW-13B	11/10/2015	ND	0.001	mg/L		
Antimony, total	MW-13B	02/22/2016	ND	0.001	mg/L		
Antimony, total	MW-13B	05/16/2016	ND	0.001	mg/L		
Antimony, total	MW-13B	08/31/2016	ND	0.001	mg/L		
Antimony, total	MW-13B	11/14/2016	ND	0.001	mg/L		
Antimony, total	MW-13B	02/22/2017	ND	0.001	mg/L		
Antimony, total	MW-13B	05/24/2017	ND	0.001	mg/L		
Antimony, total	MW-13B	08/30/2017	ND	0.001	mg/L		
Antimony, total	MW-13B	11/13/2017	ND	0.001	mg/L		
Antimony, total	MW-13B	02/20/2018	ND	0.001	mg/L		
Antimony, total	MW-13B	05/15/2018	ND	0.001	mg/L		
Antimony, total	MW-13B	08/21/2018	ND	0.001	mg/L		
Antimony, total	MW-13B	11/12/2018	ND	0.001	mg/L		
Antimony, total	MW-13B	11/11/2019	ND	0.001	mg/L		
Antimony, total	MW-13B	11/19/2020	ND	0.001	mg/L		
Antimony, total	MW-13B	11/16/2021	ND	0.001	mg/L		
Antimony, total	MW-13B	11/17/2022	ND	0.001	mg/L		
Antimony, total	MW-13B	11/08/2023	ND	0.001	mg/L		
Antimony, total	MW-13B	11/14/2024	ND	0.001	mg/L		
Antimony, total	MW-16	09/05/2013	ND	0.001	mg/L		
Antimony, total	MW-16	12/16/2013	ND	0.001	mg/L		
Antimony, total	MW-16	03/05/2014	ND	0.001	mg/L		
Antimony, total	MW-16	06/02/2014	ND	0.001	mg/L		
Antimony, total	MW-16	09/22/2014	ND	0.001	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Antimony, total	MW-16	11/18/2014	ND	0.001	mg/L		
Antimony, total	MW-16	02/23/2015		0.0011	mg/L		
Antimony, total	MW-16	05/20/2015	ND	0.001	mg/L		
Antimony, total	MW-16	08/26/2015	ND	0.001	mg/L		
Antimony, total	MW-16	11/11/2015		0.0013	mg/L		
Antimony, total	MW-16	02/24/2016	ND	0.001	mg/L		
Antimony, total	MW-16	05/16/2016	ND	0.001	mg/L		
Antimony, total	MW-16	08/31/2016	ND	0.001	mg/L		
Antimony, total	MW-16	11/14/2016	ND	0.001	mg/L		
Antimony, total	MW-16	02/22/2017	ND	0.001	mg/L		
Antimony, total	MW-16	05/24/2017	ND	0.001	mg/L		
Antimony, total	MW-16	08/30/2017	ND	0.001	mg/L		
Antimony, total	MW-16	11/13/2017	ND	0.001	mg/L		
Antimony, total	MW-16	02/20/2018	ND	0.001	mg/L		
Antimony, total	MW-16	05/17/2018	ND	0.001	mg/L		
Antimony, total	MW-16	08/22/2018	ND	0.001	mg/L		
Antimony, total	MW-16	11/12/2018	ND	0.001	mg/L		
Antimony, total	MW-16	11/12/2019	ND	0.001	mg/L		
Antimony, total	MW-16	11/20/2020	ND	0.001	mg/L		
Antimony, total	MW-16	11/16/2021	ND	0.001	mg/L		
Antimony, total	MW-16	11/17/2022	ND	0.001	mg/L		
Antimony, total	MW-16	11/08/2023	ND	0.001	mg/L		
Antimony, total	MW-16	11/14/2024	ND	0.001	mg/L		
Antimony, total	MW-35	09/05/2013	ND	0.001	mg/L		
Antimony, total	MW-35	12/16/2013	ND	0.001	mg/L		
Antimony, total	MW-35	03/04/2014	ND	0.001	mg/L		
Antimony, total	MW-35	06/02/2014	ND	0.001	mg/L		
Antimony, total	MW-35	09/22/2014	ND	0.001	mg/L		
Antimony, total	MW-35	11/17/2014	ND	0.001	mg/L		
Antimony, total	MW-35	02/25/2015	ND	0.001	mg/L		
Antimony, total	MW-35	05/19/2015	ND	0.001	mg/L		
Antimony, total	MW-35	08/26/2015	ND	0.001	mg/L		
Antimony, total	MW-35	11/10/2015	ND	0.001	mg/L		
Antimony, total	MW-35	02/22/2016	ND	0.001	mg/L		
Antimony, total	MW-35	05/16/2016	ND	0.001	mg/L		
Antimony, total	MW-35	08/31/2016	ND	0.001	mg/L		
Antimony, total	MW-35	11/15/2016	ND	0.001	mg/L		
Antimony, total	MW-35	02/22/2017	ND	0.001	mg/L		
Antimony, total	MW-35	05/24/2017	ND	0.001	mg/L		
Antimony, total	MW-35	08/30/2017	ND	0.001	mg/L		
Antimony, total	MW-35	11/15/2017	ND	0.001	mg/L		
Antimony, total	MW-35	02/20/2018	ND	0.001	mg/L		
Antimony, total	MW-35	05/17/2018	ND	0.001	mg/L		
Antimony, total	MW-35	08/22/2018	ND	0.001	mg/L		
Antimony, total	MW-35	11/12/2018	ND	0.001	mg/L		
Antimony, total	MW-35	11/12/2019	ND	0.001	mg/L		
Antimony, total	MW-35	11/19/2020	ND	0.001	mg/L		
Antimony, total	MW-35	11/16/2021	ND	0.001	mg/L		
Antimony, total	MW-35	11/17/2022	ND	0.001	mg/L		
Antimony, total	MW-35	11/08/2023	ND	0.001	mg/L		
Antimony, total	MW-35	11/14/2024	ND	0.001	mg/L		
Arsenic, total	MW-13A	03/22/2005	ND	5	ug/L		*
Arsenic, total	MW-13A	06/15/2005		0.22	ug/L		
Arsenic, total	MW-13A	09/27/2005		0.23	ug/L		
Arsenic, total	MW-13A	12/15/2005		0.21	ug/L		
Arsenic, total	MW-13A	12/03/2013		0.17	ug/L		
Arsenic, total	MW-13A	03/04/2014		0.18	ug/L		
Arsenic, total	MW-13A	06/02/2014		0.2	ug/L		
Arsenic, total	MW-13A	09/22/2014		0.17	ug/L		
Arsenic, total	MW-13A	11/17/2014		0.18	ug/L		
Arsenic, total	MW-13A	02/23/2015		0.21	ug/L		
Arsenic, total	MW-13A	05/19/2015		0.18	ug/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Arsenic, total	MW-13A	08/26/2015		0.19	ug/L		
Arsenic, total	MW-13A	11/10/2015		0.2	ug/L		
Arsenic, total	MW-13A	02/22/2016		0.2	ug/L		
Arsenic, total	MW-13A	05/16/2016		0.16	ug/L		
Arsenic, total	MW-13A	08/31/2016		0.177	ug/L		
Arsenic, total	MW-13A	11/14/2016		0.17	ug/L		
Arsenic, total	MW-13A	02/22/2017		0.201	ug/L		
Arsenic, total	MW-13A	05/24/2017		0.181	ug/L		
Arsenic, total	MW-13A	08/30/2017		0.191	ug/L		
Arsenic, total	MW-13A	11/13/2017		0.193	ug/L		
Arsenic, total	MW-13A	02/20/2018		0.199	ug/L		
Arsenic, total	MW-13A	05/15/2018		0.183	ug/L		
Arsenic, total	MW-13A	08/21/2018		0.199	ug/L		
Arsenic, total	MW-13A	11/12/2018		0.189	ug/L		
Arsenic, total	MW-13A	11/11/2019		0.205	ug/L		
Arsenic, total	MW-13A	11/19/2020		0.198	ug/L		
Arsenic, total	MW-13A	11/16/2021		0.249	ug/L		
Arsenic, total	MW-13A	11/17/2022		0.206	ug/L		
Arsenic, total	MW-13A	11/08/2023		0.18	ug/L		
Arsenic, total	MW-13A	11/14/2024		0.208	ug/L		
Arsenic, total	MW-13B	03/22/2005	ND	5	ug/L		*
Arsenic, total	MW-13B	06/15/2005		0.37	ug/L		
Arsenic, total	MW-13B	09/27/2005		0.39	ug/L		
Arsenic, total	MW-13B	12/15/2005		0.38	ug/L		
Arsenic, total	MW-13B	12/03/2013		0.28	ug/L		
Arsenic, total	MW-13B	03/04/2014		0.32	ug/L		
Arsenic, total	MW-13B	06/02/2014		0.33	ug/L		
Arsenic, total	MW-13B	09/22/2014		0.3	ug/L		
Arsenic, total	MW-13B	11/17/2014		0.3	ug/L		
Arsenic, total	MW-13B	02/23/2015		0.36	ug/L		
Arsenic, total	MW-13B	05/19/2015		0.31	ug/L		
Arsenic, total	MW-13B	08/26/2015		0.31	ug/L		
Arsenic, total	MW-13B	11/10/2015		0.3	ug/L		
Arsenic, total	MW-13B	02/22/2016		0.3	ug/L		
Arsenic, total	MW-13B	05/16/2016		0.29	ug/L		
Arsenic, total	MW-13B	08/31/2016		0.311	ug/L		
Arsenic, total	MW-13B	11/14/2016		0.314	ug/L		
Arsenic, total	MW-13B	02/22/2017		0.324	ug/L		
Arsenic, total	MW-13B	05/24/2017		0.327	ug/L		
Arsenic, total	MW-13B	08/30/2017		0.338	ug/L		
Arsenic, total	MW-13B	11/13/2017		0.311	ug/L		
Arsenic, total	MW-13B	02/20/2018		0.366	ug/L		
Arsenic, total	MW-13B	05/15/2018		0.342	ug/L		
Arsenic, total	MW-13B	08/21/2018		0.377	ug/L		
Arsenic, total	MW-13B	11/12/2018		0.337	ug/L		
Arsenic, total	MW-13B	11/11/2019		0.322	ug/L		
Arsenic, total	MW-13B	11/19/2020		0.347	ug/L		
Arsenic, total	MW-13B	11/16/2021		0.3405	ug/L		
Arsenic, total	MW-13B	11/17/2022		0.338	ug/L		
Arsenic, total	MW-13B	11/08/2023		0.326	ug/L		
Arsenic, total	MW-13B	11/14/2024		0.33	ug/L		
Arsenic, total	MW-16	12/23/2013		0.29	ug/L		
Arsenic, total	MW-16	03/05/2014		0.43	ug/L		
Arsenic, total	MW-16	06/02/2014		0.33	ug/L		
Arsenic, total	MW-16	09/22/2014		0.32	ug/L		
Arsenic, total	MW-16	11/18/2014		0.35	ug/L		
Arsenic, total	MW-16	02/23/2015		0.37	ug/L		
Arsenic, total	MW-16	05/20/2015		0.34	ug/L		
Arsenic, total	MW-16	08/26/2015		0.32	ug/L		
Arsenic, total	MW-16	11/11/2015		0.3	ug/L		
Arsenic, total	MW-16	02/24/2016		0.3	ug/L		
Arsenic, total	MW-16	05/16/2016		0.3	ug/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Arsenic, total	MW-16	08/31/2016		0.311	ug/L		
Arsenic, total	MW-16	11/14/2016		0.381	ug/L		
Arsenic, total	MW-16	02/22/2017		0.383	ug/L		
Arsenic, total	MW-16	05/24/2017		0.375	ug/L		
Arsenic, total	MW-16	08/30/2017		0.353	ug/L		
Arsenic, total	MW-16	11/13/2017		0.364	ug/L		
Arsenic, total	MW-16	02/20/2018		0.446	ug/L		
Arsenic, total	MW-16	05/17/2018		0.367	ug/L		
Arsenic, total	MW-16	08/22/2018		0.173	ug/L		
Arsenic, total	MW-16	11/12/2018		0.452	ug/L		
Arsenic, total	MW-16	11/12/2019		0.413	ug/L		
Arsenic, total	MW-16	11/20/2020		1.1	ug/L		*
Arsenic, total	MW-16	11/16/2021		0.336	ug/L		
Arsenic, total	MW-16	11/17/2022		0.369	ug/L		
Arsenic, total	MW-16	11/08/2023		0.395	ug/L		
Arsenic, total	MW-16	11/14/2024		0.381	ug/L		
Arsenic, total	MW-35	03/22/2005	ND	5	ug/L		*
Arsenic, total	MW-35	06/14/2005		0.14	ug/L		
Arsenic, total	MW-35	09/27/2005		0.15	ug/L		
Arsenic, total	MW-35	12/15/2005		0.14	ug/L		
Arsenic, total	MW-35	12/23/2013		0.12	ug/L		
Arsenic, total	MW-35	03/04/2014		0.11	ug/L		
Arsenic, total	MW-35	06/02/2014		0.12	ug/L		
Arsenic, total	MW-35	09/22/2014		0.11	ug/L		
Arsenic, total	MW-35	11/17/2014		0.12	ug/L		
Arsenic, total	MW-35	02/25/2015		0.11	ug/L		
Arsenic, total	MW-35	05/19/2015		0.11	ug/L		
Arsenic, total	MW-35	08/26/2015		0.11	ug/L		
Arsenic, total	MW-35	11/10/2015		0.1	ug/L		
Arsenic, total	MW-35	02/22/2016		0.1	ug/L		
Arsenic, total	MW-35	05/16/2016		0.1	ug/L		
Arsenic, total	MW-35	08/31/2016		0.109	ug/L		
Arsenic, total	MW-35	11/15/2016		0.114	ug/L		
Arsenic, total	MW-35	02/22/2017		0.12	ug/L		
Arsenic, total	MW-35	05/24/2017		0.134	ug/L		
Arsenic, total	MW-35	08/30/2017		0.114	ug/L		
Arsenic, total	MW-35	11/15/2017		0.107	ug/L		
Arsenic, total	MW-35	02/20/2018		0.12	ug/L		
Arsenic, total	MW-35	05/17/2018		0.111	ug/L		
Arsenic, total	MW-35	08/22/2018		0.126	ug/L		
Arsenic, total	MW-35	11/12/2018		0.112	ug/L		
Arsenic, total	MW-35	11/12/2019		0.0996	ug/L		
Arsenic, total	MW-35	11/19/2020		0.115	ug/L		
Arsenic, total	MW-35	11/16/2021		0.121	ug/L		
Arsenic, total	MW-35	11/17/2022		0.114	ug/L		
Arsenic, total	MW-35	11/08/2023		0.103	ug/L		
Arsenic, total	MW-35	11/14/2024		0.115	ug/L		
Barium, total	MW-13A	12/03/2013		0.003	mg/L		
Barium, total	MW-13A	03/04/2014		0.0029	mg/L		
Barium, total	MW-13A	06/02/2014		0.0029	mg/L		
Barium, total	MW-13A	09/22/2014		0.0027	mg/L		
Barium, total	MW-13A	11/17/2014		0.0026	mg/L		
Barium, total	MW-13A	02/23/2015		0.0024	mg/L		
Barium, total	MW-13A	05/19/2015		0.0023	mg/L		
Barium, total	MW-13A	08/26/2015		0.0033	mg/L		
Barium, total	MW-13A	11/10/2015		0.003	mg/L		
Barium, total	MW-13A	02/22/2016		0.0023	mg/L		
Barium, total	MW-13A	05/16/2016		0.003	mg/L		
Barium, total	MW-13A	08/31/2016		0.0029	mg/L		
Barium, total	MW-13A	11/14/2016		0.0028	mg/L		
Barium, total	MW-13A	02/22/2017		0.0028	mg/L		
Barium, total	MW-13A	05/24/2017		0.0025	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Barium, total	MW-13A	08/30/2017		0.0025	mg/L		
Barium, total	MW-13A	11/13/2017		0.003	mg/L		
Barium, total	MW-13A	02/20/2018		0.0025	mg/L		
Barium, total	MW-13A	05/15/2018		0.0027	mg/L		
Barium, total	MW-13A	08/21/2018		0.0027	mg/L		
Barium, total	MW-13A	11/12/2018		0.0028	mg/L		
Barium, total	MW-13A	11/11/2019		0.0027	mg/L		
Barium, total	MW-13A	11/19/2020		0.0025	mg/L		
Barium, total	MW-13A	11/16/2021		0.0025	mg/L		
Barium, total	MW-13A	11/17/2022		0.0026	mg/L		
Barium, total	MW-13A	11/08/2023		0.0027	mg/L		
Barium, total	MW-13A	11/14/2024		0.003	mg/L		
Barium, total	MW-13B	12/03/2013		0.0035	mg/L		
Barium, total	MW-13B	03/04/2014		0.0032	mg/L		
Barium, total	MW-13B	06/02/2014		0.0031	mg/L		
Barium, total	MW-13B	09/22/2014		0.0033	mg/L		
Barium, total	MW-13B	11/17/2014		0.0037	mg/L		
Barium, total	MW-13B	02/23/2015		0.0034	mg/L		
Barium, total	MW-13B	05/19/2015		0.0033	mg/L		
Barium, total	MW-13B	08/26/2015		0.0039	mg/L		
Barium, total	MW-13B	11/10/2015		0.0036	mg/L		
Barium, total	MW-13B	02/22/2016		0.0036	mg/L		
Barium, total	MW-13B	05/16/2016		0.0034	mg/L		
Barium, total	MW-13B	08/31/2016		0.0041	mg/L		
Barium, total	MW-13B	11/14/2016		0.0029	mg/L		
Barium, total	MW-13B	02/22/2017		0.0034	mg/L		
Barium, total	MW-13B	05/24/2017		0.0033	mg/L		
Barium, total	MW-13B	08/30/2017		0.0033	mg/L		
Barium, total	MW-13B	11/13/2017		0.0035	mg/L		
Barium, total	MW-13B	02/20/2018		0.0035	mg/L		
Barium, total	MW-13B	05/15/2018		0.0033	mg/L		
Barium, total	MW-13B	08/21/2018		0.0031	mg/L		
Barium, total	MW-13B	11/12/2018		0.0034	mg/L		
Barium, total	MW-13B	11/11/2019		0.0034	mg/L		
Barium, total	MW-13B	11/19/2020		0.0032	mg/L		
Barium, total	MW-13B	11/16/2021		0.0031	mg/L		
Barium, total	MW-13B	11/17/2022		0.0038	mg/L		
Barium, total	MW-13B	11/08/2023		0.0032	mg/L		
Barium, total	MW-13B	11/14/2024		0.0036	mg/L		
Barium, total	MW-16	09/05/2013		0.0041	mg/L		
Barium, total	MW-16	12/16/2013		0.0043	mg/L		
Barium, total	MW-16	03/05/2014		0.0036	mg/L		
Barium, total	MW-16	06/02/2014		0.0025	mg/L		
Barium, total	MW-16	09/22/2014		0.0033	mg/L		
Barium, total	MW-16	11/18/2014		0.0039	mg/L		
Barium, total	MW-16	02/23/2015		0.0036	mg/L		
Barium, total	MW-16	05/20/2015		0.0034	mg/L		
Barium, total	MW-16	08/26/2015		0.0038	mg/L		
Barium, total	MW-16	11/11/2015		0.0043	mg/L		
Barium, total	MW-16	02/24/2016		0.0027	mg/L		
Barium, total	MW-16	05/16/2016		0.0031	mg/L		
Barium, total	MW-16	08/31/2016		0.0042	mg/L		
Barium, total	MW-16	11/14/2016		0.0045	mg/L		
Barium, total	MW-16	02/22/2017		0.0027	mg/L		
Barium, total	MW-16	05/24/2017		0.0026	mg/L		
Barium, total	MW-16	08/30/2017		0.0031	mg/L		
Barium, total	MW-16	11/13/2017		0.0035	mg/L		
Barium, total	MW-16	02/20/2018		0.0027	mg/L		
Barium, total	MW-16	05/17/2018		0.0032	mg/L		
Barium, total	MW-16	08/22/2018		0.0033	mg/L		
Barium, total	MW-16	11/12/2018		0.0038	mg/L		
Barium, total	MW-16	11/12/2019		0.0043	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Barium, total	MW-16	11/20/2020		0.0055	mg/L		
Barium, total	MW-16	11/16/2021		0.0044	mg/L		
Barium, total	MW-16	11/17/2022		0.0038	mg/L		
Barium, total	MW-16	11/08/2023		0.0038	mg/L		
Barium, total	MW-16	11/14/2024		0.0039	mg/L		
Barium, total	MW-35	09/05/2013		0.0034	mg/L		
Barium, total	MW-35	12/16/2013		0.0031	mg/L		
Barium, total	MW-35	03/04/2014		0.003	mg/L		
Barium, total	MW-35	06/02/2014		0.0034	mg/L		
Barium, total	MW-35	09/22/2014		0.0034	mg/L		
Barium, total	MW-35	11/17/2014		0.0034	mg/L		
Barium, total	MW-35	02/25/2015		0.003	mg/L		
Barium, total	MW-35	05/19/2015		0.0031	mg/L		
Barium, total	MW-35	08/26/2015		0.0029	mg/L		
Barium, total	MW-35	11/10/2015		0.003	mg/L		
Barium, total	MW-35	02/22/2016		0.0031	mg/L		
Barium, total	MW-35	05/16/2016		0.0033	mg/L		
Barium, total	MW-35	08/31/2016		0.0029	mg/L		
Barium, total	MW-35	11/15/2016		0.0027	mg/L		
Barium, total	MW-35	02/22/2017		0.0031	mg/L		
Barium, total	MW-35	05/24/2017		0.0027	mg/L		
Barium, total	MW-35	08/30/2017		0.0028	mg/L		
Barium, total	MW-35	11/15/2017		0.0028	mg/L		
Barium, total	MW-35	02/20/2018		0.0026	mg/L		
Barium, total	MW-35	05/17/2018		0.0032	mg/L		
Barium, total	MW-35	08/22/2018		0.0033	mg/L		
Barium, total	MW-35	11/12/2018		0.0032	mg/L		
Barium, total	MW-35	11/12/2019		0.0033	mg/L		
Barium, total	MW-35	11/19/2020		0.0029	mg/L		
Barium, total	MW-35	11/16/2021		0.0031	mg/L		
Barium, total	MW-35	11/17/2022		0.0038	mg/L		
Barium, total	MW-35	11/08/2023		0.003	mg/L		
Barium, total	MW-35	11/14/2024		0.0032	mg/L		
Beryllium, total	MW-13A	12/03/2013	ND	0.001	mg/L		
Beryllium, total	MW-13A	03/04/2014	ND	0.001	mg/L		
Beryllium, total	MW-13A	06/02/2014	ND	0.001	mg/L		
Beryllium, total	MW-13A	09/22/2014	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/17/2014	ND	0.001	mg/L		
Beryllium, total	MW-13A	02/23/2015	ND	0.001	mg/L		
Beryllium, total	MW-13A	05/19/2015	ND	0.001	mg/L		
Beryllium, total	MW-13A	08/26/2015	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/10/2015	ND	0.001	mg/L		
Beryllium, total	MW-13A	02/22/2016	ND	0.001	mg/L		
Beryllium, total	MW-13A	05/16/2016	ND	0.001	mg/L		
Beryllium, total	MW-13A	08/31/2016	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/14/2016	ND	0.001	mg/L		
Beryllium, total	MW-13A	02/22/2017	ND	0.001	mg/L		
Beryllium, total	MW-13A	05/24/2017	ND	0.001	mg/L		
Beryllium, total	MW-13A	08/30/2017	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/13/2017	ND	0.001	mg/L		
Beryllium, total	MW-13A	02/20/2018	ND	0.001	mg/L		
Beryllium, total	MW-13A	05/15/2018	ND	0.001	mg/L		
Beryllium, total	MW-13A	08/21/2018	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/12/2018	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/11/2019	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/19/2020	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/16/2021	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/17/2022	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/08/2023	ND	0.001	mg/L		
Beryllium, total	MW-13A	11/14/2024	ND	0.001	mg/L		
Beryllium, total	MW-13B	12/03/2013	ND	0.001	mg/L		
Beryllium, total	MW-13B	03/04/2014	ND	0.001	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Beryllium, total	MW-13B	06/02/2014	ND	0.001	mg/L		
Beryllium, total	MW-13B	09/22/2014	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/17/2014	ND	0.001	mg/L		
Beryllium, total	MW-13B	02/23/2015	ND	0.001	mg/L		
Beryllium, total	MW-13B	05/19/2015	ND	0.001	mg/L		
Beryllium, total	MW-13B	08/26/2015	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/10/2015	ND	0.001	mg/L		
Beryllium, total	MW-13B	02/22/2016	ND	0.001	mg/L		
Beryllium, total	MW-13B	05/16/2016	ND	0.001	mg/L		
Beryllium, total	MW-13B	08/31/2016	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/14/2016	ND	0.001	mg/L		
Beryllium, total	MW-13B	02/22/2017	ND	0.001	mg/L		
Beryllium, total	MW-13B	05/24/2017	ND	0.001	mg/L		
Beryllium, total	MW-13B	08/30/2017	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/13/2017	ND	0.001	mg/L		
Beryllium, total	MW-13B	02/20/2018	ND	0.001	mg/L		
Beryllium, total	MW-13B	05/15/2018	ND	0.001	mg/L		
Beryllium, total	MW-13B	08/21/2018	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/12/2018	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/11/2019	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/19/2020	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/16/2021	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/17/2022	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/08/2023	ND	0.001	mg/L		
Beryllium, total	MW-13B	11/14/2024	ND	0.001	mg/L		
Beryllium, total	MW-16	09/05/2013	ND	0.001	mg/L		
Beryllium, total	MW-16	12/16/2013	ND	0.001	mg/L		
Beryllium, total	MW-16	03/05/2014	ND	0.001	mg/L		
Beryllium, total	MW-16	06/02/2014	ND	0.001	mg/L		
Beryllium, total	MW-16	09/22/2014	ND	0.001	mg/L		
Beryllium, total	MW-16	11/18/2014	ND	0.001	mg/L		
Beryllium, total	MW-16	02/23/2015	ND	0.001	mg/L		
Beryllium, total	MW-16	05/20/2015	ND	0.001	mg/L		
Beryllium, total	MW-16	08/26/2015	ND	0.001	mg/L		
Beryllium, total	MW-16	11/11/2015	ND	0.001	mg/L		
Beryllium, total	MW-16	02/24/2016	ND	0.001	mg/L		
Beryllium, total	MW-16	05/16/2016	ND	0.001	mg/L		
Beryllium, total	MW-16	08/31/2016	ND	0.001	mg/L		
Beryllium, total	MW-16	11/14/2016	ND	0.001	mg/L		
Beryllium, total	MW-16	02/22/2017	ND	0.001	mg/L		
Beryllium, total	MW-16	05/24/2017	ND	0.001	mg/L		
Beryllium, total	MW-16	08/30/2017	ND	0.001	mg/L		
Beryllium, total	MW-16	11/13/2017	ND	0.001	mg/L		
Beryllium, total	MW-16	02/20/2018	ND	0.001	mg/L		
Beryllium, total	MW-16	05/17/2018	ND	0.001	mg/L		
Beryllium, total	MW-16	08/22/2018	ND	0.001	mg/L		
Beryllium, total	MW-16	11/12/2018	ND	0.001	mg/L		
Beryllium, total	MW-16	11/12/2019	ND	0.001	mg/L		
Beryllium, total	MW-16	11/20/2020	ND	0.001	mg/L		
Beryllium, total	MW-16	11/16/2021	ND	0.001	mg/L		
Beryllium, total	MW-16	11/17/2022	ND	0.001	mg/L		
Beryllium, total	MW-16	11/08/2023	ND	0.001	mg/L		
Beryllium, total	MW-16	11/14/2024	ND	0.001	mg/L		
Beryllium, total	MW-35	09/05/2013	ND	0.001	mg/L		
Beryllium, total	MW-35	12/16/2013	ND	0.001	mg/L		
Beryllium, total	MW-35	03/04/2014	ND	0.001	mg/L		
Beryllium, total	MW-35	06/02/2014	ND	0.001	mg/L		
Beryllium, total	MW-35	09/22/2014	ND	0.001	mg/L		
Beryllium, total	MW-35	11/17/2014	ND	0.001	mg/L		
Beryllium, total	MW-35	02/25/2015	ND	0.001	mg/L		
Beryllium, total	MW-35	05/19/2015	ND	0.001	mg/L		
Beryllium, total	MW-35	08/26/2015	ND	0.001	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Beryllium, total	MW-35	11/10/2015	ND	0.001	mg/L		
Beryllium, total	MW-35	02/22/2016	ND	0.001	mg/L		
Beryllium, total	MW-35	05/16/2016	ND	0.001	mg/L		
Beryllium, total	MW-35	08/31/2016	ND	0.001	mg/L		
Beryllium, total	MW-35	11/15/2016	ND	0.001	mg/L		
Beryllium, total	MW-35	02/22/2017	ND	0.001	mg/L		
Beryllium, total	MW-35	05/24/2017	ND	0.001	mg/L		
Beryllium, total	MW-35	08/30/2017	ND	0.001	mg/L		
Beryllium, total	MW-35	11/15/2017	ND	0.001	mg/L		
Beryllium, total	MW-35	02/20/2018	ND	0.001	mg/L		
Beryllium, total	MW-35	05/17/2018	ND	0.001	mg/L		
Beryllium, total	MW-35	08/22/2018	ND	0.001	mg/L		
Beryllium, total	MW-35	11/12/2018	ND	0.001	mg/L		
Beryllium, total	MW-35	11/12/2019	ND	0.001	mg/L		
Beryllium, total	MW-35	11/19/2020	ND	0.001	mg/L		
Beryllium, total	MW-35	11/16/2021	ND	0.001	mg/L		
Beryllium, total	MW-35	11/17/2022	ND	0.001	mg/L		
Beryllium, total	MW-35	11/08/2023	ND	0.001	mg/L		
Beryllium, total	MW-35	11/14/2024	ND	0.001	mg/L		
Cadmium, total	MW-13A	12/03/2013	ND	0.0002	mg/L		
Cadmium, total	MW-13A	03/04/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13A	06/02/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13A	09/22/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13A	11/17/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13A	02/23/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13A	05/19/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13A	08/26/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13A	11/10/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13A	02/22/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13A	05/16/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13A	08/31/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13A	11/14/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13A	02/22/2017	ND	0.0002	mg/L		
Cadmium, total	MW-13A	05/24/2017	ND	0.0002	mg/L		
Cadmium, total	MW-13A	08/30/2017	ND	0.0002	mg/L		
Cadmium, total	MW-13A	11/13/2017	ND	0.0002	mg/L		
Cadmium, total	MW-13A	02/20/2018	ND	0.0002	mg/L		
Cadmium, total	MW-13A	05/15/2018	ND	0.0002	mg/L		
Cadmium, total	MW-13A	08/21/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13A	11/12/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13A	11/11/2019	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13A	11/19/2020	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13A	11/16/2021	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13A	11/17/2022	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13A	11/08/2023	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13A	11/14/2024	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	12/03/2013	ND	0.0002	mg/L		
Cadmium, total	MW-13B	03/04/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13B	06/02/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13B	09/22/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13B	11/17/2014	ND	0.0002	mg/L		
Cadmium, total	MW-13B	02/23/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13B	05/19/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13B	08/26/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13B	11/10/2015	ND	0.0002	mg/L		
Cadmium, total	MW-13B	02/22/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13B	05/16/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13B	08/31/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13B	11/14/2016	ND	0.0002	mg/L		
Cadmium, total	MW-13B	02/22/2017	ND	0.0002	mg/L		
Cadmium, total	MW-13B	05/24/2017	ND	0.0002	mg/L		
Cadmium, total	MW-13B	08/30/2017	ND	0.0002	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Cadmium, total	MW-13B	11/13/2017	ND	0.0002	mg/L		
Cadmium, total	MW-13B	02/20/2018	ND	0.0002	mg/L		
Cadmium, total	MW-13B	05/15/2018	ND	0.0002	mg/L		
Cadmium, total	MW-13B	08/21/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	11/12/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	11/11/2019	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	11/19/2020	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	11/16/2021	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	11/17/2022	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	11/08/2023	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-13B	11/14/2024	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	09/05/2013	ND	0.0002	mg/L		
Cadmium, total	MW-16	12/16/2013	ND	0.0002	mg/L		
Cadmium, total	MW-16	03/05/2014	ND	0.0002	mg/L		
Cadmium, total	MW-16	06/02/2014	ND	0.0002	mg/L		
Cadmium, total	MW-16	09/22/2014	ND	0.0002	mg/L		
Cadmium, total	MW-16	11/18/2014	ND	0.0002	mg/L		
Cadmium, total	MW-16	02/23/2015	ND	0.0002	mg/L		
Cadmium, total	MW-16	05/20/2015	ND	0.0002	mg/L		
Cadmium, total	MW-16	08/26/2015	ND	0.0002	mg/L		
Cadmium, total	MW-16	11/11/2015	ND	0.0002	mg/L		
Cadmium, total	MW-16	02/24/2016	ND	0.0002	mg/L		
Cadmium, total	MW-16	05/16/2016	ND	0.0002	mg/L		
Cadmium, total	MW-16	08/31/2016	ND	0.0002	mg/L		
Cadmium, total	MW-16	11/14/2016	ND	0.0002	mg/L		
Cadmium, total	MW-16	02/22/2017	ND	0.0002	mg/L		
Cadmium, total	MW-16	05/24/2017	ND	0.0002	mg/L		
Cadmium, total	MW-16	08/30/2017	ND	0.0002	mg/L		
Cadmium, total	MW-16	11/13/2017	ND	0.0002	mg/L		
Cadmium, total	MW-16	02/20/2018	ND	0.0002	mg/L		
Cadmium, total	MW-16	05/17/2018	ND	0.0002	mg/L		
Cadmium, total	MW-16	08/22/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	11/12/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	11/12/2019	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	11/20/2020	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	11/16/2021	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	11/17/2022	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	11/08/2023	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-16	11/14/2024	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-35	09/05/2013	ND	0.0002	mg/L		
Cadmium, total	MW-35	12/16/2013	ND	0.0002	mg/L		
Cadmium, total	MW-35	03/04/2014	ND	0.0002	mg/L		
Cadmium, total	MW-35	06/02/2014	ND	0.0002	mg/L		
Cadmium, total	MW-35	09/22/2014	ND	0.0002	mg/L		
Cadmium, total	MW-35	11/17/2014	ND	0.0002	mg/L		
Cadmium, total	MW-35	02/25/2015	ND	0.0002	mg/L		
Cadmium, total	MW-35	05/19/2015	ND	0.0002	mg/L		
Cadmium, total	MW-35	08/26/2015	ND	0.0002	mg/L		
Cadmium, total	MW-35	11/10/2015	ND	0.0002	mg/L		
Cadmium, total	MW-35	02/22/2016	ND	0.0002	mg/L		
Cadmium, total	MW-35	05/16/2016	ND	0.0002	mg/L		
Cadmium, total	MW-35	08/31/2016	ND	0.0002	mg/L		
Cadmium, total	MW-35	11/15/2016	ND	0.0002	mg/L		
Cadmium, total	MW-35	02/22/2017	ND	0.0002	mg/L		
Cadmium, total	MW-35	05/24/2017	ND	0.0002	mg/L		
Cadmium, total	MW-35	08/30/2017	ND	0.0002	mg/L		
Cadmium, total	MW-35	11/15/2017	ND	0.0002	mg/L		
Cadmium, total	MW-35	02/20/2018	ND	0.0002	mg/L		
Cadmium, total	MW-35	05/17/2018	ND	0.0002	mg/L		
Cadmium, total	MW-35	08/22/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-35	11/12/2018	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-35	11/12/2019	ND	0.0003	mg/L	0.0002	**

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Cadmium, total	MW-35	11/19/2020	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-35	11/16/2021	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-35	11/17/2022	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-35	11/08/2023	ND	0.0003	mg/L	0.0002	**
Cadmium, total	MW-35	11/14/2024	ND	0.0003	mg/L	0.0002	**
Calcium, dissolved	MW-13A	03/22/2005		15.7	mg/L		
Calcium, dissolved	MW-13A	06/15/2005		14.2	mg/L		
Calcium, dissolved	MW-13A	09/27/2005		14.2	mg/L		
Calcium, dissolved	MW-13A	12/15/2005		15.1	mg/L		
Calcium, dissolved	MW-13A	03/28/2006		16	mg/L		
Calcium, dissolved	MW-13A	06/21/2006		16	mg/L		
Calcium, dissolved	MW-13A	09/26/2006		15	mg/L		
Calcium, dissolved	MW-13A	12/13/2006		15	mg/L		
Calcium, dissolved	MW-13A	03/27/2007		15	mg/L		
Calcium, dissolved	MW-13A	06/19/2007		16	mg/L		
Calcium, dissolved	MW-13A	09/19/2007		16	mg/L		
Calcium, dissolved	MW-13A	12/19/2007		15	mg/L		
Calcium, dissolved	MW-13A	03/25/2008		16	mg/L		
Calcium, dissolved	MW-13A	06/18/2008		16	mg/L		
Calcium, dissolved	MW-13A	09/17/2008		15	mg/L		
Calcium, dissolved	MW-13A	12/17/2008		16	mg/L		
Calcium, dissolved	MW-13A	03/24/2009		15	mg/L		
Calcium, dissolved	MW-13A	06/17/2009		17	mg/L		
Calcium, dissolved	MW-13A	09/10/2009		15	mg/L		
Calcium, dissolved	MW-13A	12/03/2009		15	mg/L		
Calcium, dissolved	MW-13A	03/25/2010		16	mg/L		
Calcium, dissolved	MW-13A	06/23/2010		15	mg/L		
Calcium, dissolved	MW-13A	09/23/2010		15	mg/L		
Calcium, dissolved	MW-13A	12/08/2010		16	mg/L		
Calcium, dissolved	MW-13A	03/30/2011		16	mg/L		
Calcium, dissolved	MW-13A	06/06/2011		16	mg/L		
Calcium, dissolved	MW-13A	09/27/2011		16	mg/L		
Calcium, dissolved	MW-13A	12/14/2011		16	mg/L		
Calcium, dissolved	MW-13A	03/21/2012		16	mg/L		
Calcium, dissolved	MW-13A	06/08/2012		15	mg/L		
Calcium, dissolved	MW-13A	09/26/2012		15	mg/L		
Calcium, dissolved	MW-13A	12/03/2012		16	mg/L		
Calcium, dissolved	MW-13A	03/11/2013		16	mg/L		
Calcium, dissolved	MW-13A	06/05/2013		16	mg/L		
Calcium, dissolved	MW-13A	12/03/2013		16	mg/L		
Calcium, dissolved	MW-13A	03/04/2014		16	mg/L		
Calcium, dissolved	MW-13A	06/02/2014		16	mg/L		
Calcium, dissolved	MW-13A	09/22/2014		15	mg/L		
Calcium, dissolved	MW-13A	11/17/2014		15	mg/L		
Calcium, dissolved	MW-13A	02/23/2015		15	mg/L		
Calcium, dissolved	MW-13A	05/19/2015		16	mg/L		
Calcium, dissolved	MW-13A	08/26/2015		15	mg/L		
Calcium, dissolved	MW-13A	11/10/2015		15	mg/L		
Calcium, dissolved	MW-13A	02/22/2016		16	mg/L		
Calcium, dissolved	MW-13A	05/16/2016		15	mg/L		
Calcium, dissolved	MW-13A	08/31/2016		17	mg/L		
Calcium, dissolved	MW-13A	11/14/2016		16	mg/L		
Calcium, dissolved	MW-13A	02/22/2017		17	mg/L		
Calcium, dissolved	MW-13A	05/24/2017		14	mg/L		
Calcium, dissolved	MW-13A	08/30/2017		15	mg/L		
Calcium, dissolved	MW-13A	11/13/2017		15	mg/L		
Calcium, dissolved	MW-13A	02/20/2018		14	mg/L		
Calcium, dissolved	MW-13A	05/15/2018		15	mg/L		
Calcium, dissolved	MW-13A	08/21/2018		15	mg/L		
Calcium, dissolved	MW-13A	11/12/2018		15	mg/L		
Calcium, dissolved	MW-13A	11/11/2019		15	mg/L		
Calcium, dissolved	MW-13A	11/19/2020		15	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Calcium, dissolved	MW-13A	11/16/2021		15	mg/L		
Calcium, dissolved	MW-13A	11/17/2022		15	mg/L		
Calcium, dissolved	MW-13A	11/08/2023		16	mg/L		
Calcium, dissolved	MW-13A	11/14/2024		17	mg/L		
Calcium, dissolved	MW-13B	03/22/2005		16.9	mg/L		
Calcium, dissolved	MW-13B	06/15/2005		16	mg/L		
Calcium, dissolved	MW-13B	09/27/2005		17.1	mg/L		
Calcium, dissolved	MW-13B	12/15/2005		16.1	mg/L		
Calcium, dissolved	MW-13B	03/29/2006		17	mg/L		
Calcium, dissolved	MW-13B	06/21/2006		17	mg/L		
Calcium, dissolved	MW-13B	09/26/2006		16	mg/L		
Calcium, dissolved	MW-13B	12/13/2006		17	mg/L		
Calcium, dissolved	MW-13B	03/27/2007		16	mg/L		
Calcium, dissolved	MW-13B	06/19/2007		16	mg/L		
Calcium, dissolved	MW-13B	09/18/2007		17	mg/L		
Calcium, dissolved	MW-13B	12/19/2007		15	mg/L		
Calcium, dissolved	MW-13B	03/25/2008		16	mg/L		
Calcium, dissolved	MW-13B	06/18/2008		17	mg/L		
Calcium, dissolved	MW-13B	09/17/2008		16	mg/L		
Calcium, dissolved	MW-13B	12/16/2008		16	mg/L		
Calcium, dissolved	MW-13B	03/24/2009		16	mg/L		
Calcium, dissolved	MW-13B	06/17/2009		17	mg/L		
Calcium, dissolved	MW-13B	09/10/2009		16	mg/L		
Calcium, dissolved	MW-13B	12/03/2009		16	mg/L		
Calcium, dissolved	MW-13B	03/25/2010		17	mg/L		
Calcium, dissolved	MW-13B	06/23/2010		16	mg/L		
Calcium, dissolved	MW-13B	09/23/2010		16	mg/L		
Calcium, dissolved	MW-13B	12/08/2010		16	mg/L		
Calcium, dissolved	MW-13B	03/30/2011		16	mg/L		
Calcium, dissolved	MW-13B	06/06/2011		16	mg/L		
Calcium, dissolved	MW-13B	09/27/2011		16	mg/L		
Calcium, dissolved	MW-13B	12/14/2011		16	mg/L		
Calcium, dissolved	MW-13B	03/21/2012		16	mg/L		
Calcium, dissolved	MW-13B	06/08/2012		16	mg/L		
Calcium, dissolved	MW-13B	09/26/2012		16	mg/L		
Calcium, dissolved	MW-13B	12/03/2012		17	mg/L		
Calcium, dissolved	MW-13B	03/11/2013		17	mg/L		
Calcium, dissolved	MW-13B	06/05/2013		17	mg/L		
Calcium, dissolved	MW-13B	12/03/2013		17	mg/L		
Calcium, dissolved	MW-13B	03/04/2014		17	mg/L		
Calcium, dissolved	MW-13B	06/02/2014		16	mg/L		
Calcium, dissolved	MW-13B	09/22/2014		15	mg/L		
Calcium, dissolved	MW-13B	11/17/2014		16	mg/L		
Calcium, dissolved	MW-13B	02/23/2015		17	mg/L		
Calcium, dissolved	MW-13B	05/19/2015		17	mg/L		
Calcium, dissolved	MW-13B	08/26/2015		16	mg/L		
Calcium, dissolved	MW-13B	11/10/2015		17	mg/L		
Calcium, dissolved	MW-13B	02/22/2016		18	mg/L		
Calcium, dissolved	MW-13B	05/16/2016		16	mg/L		
Calcium, dissolved	MW-13B	08/31/2016		18	mg/L		
Calcium, dissolved	MW-13B	11/14/2016		17	mg/L		
Calcium, dissolved	MW-13B	02/22/2017		18	mg/L		
Calcium, dissolved	MW-13B	05/24/2017		14	mg/L		
Calcium, dissolved	MW-13B	08/30/2017		17	mg/L		
Calcium, dissolved	MW-13B	11/13/2017		17	mg/L		
Calcium, dissolved	MW-13B	02/20/2018		16	mg/L		
Calcium, dissolved	MW-13B	05/15/2018		17	mg/L		
Calcium, dissolved	MW-13B	08/21/2018		18	mg/L		
Calcium, dissolved	MW-13B	11/12/2018		17	mg/L		
Calcium, dissolved	MW-13B	11/11/2019		16	mg/L		
Calcium, dissolved	MW-13B	11/19/2020		16	mg/L		
Calcium, dissolved	MW-13B	11/16/2021		16	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Calcium, dissolved	MW-13B	11/17/2022		17	mg/L		
Calcium, dissolved	MW-13B	11/08/2023		16	mg/L		
Calcium, dissolved	MW-13B	11/14/2024		18	mg/L		
Calcium, dissolved	MW-16	03/24/2009		12	mg/L		
Calcium, dissolved	MW-16	06/16/2009		10	mg/L		
Calcium, dissolved	MW-16	09/09/2009		11	mg/L		
Calcium, dissolved	MW-16	12/03/2009		14	mg/L		
Calcium, dissolved	MW-16	03/25/2010		9.6	mg/L		
Calcium, dissolved	MW-16	06/24/2010		12	mg/L		
Calcium, dissolved	MW-16	09/24/2010		13	mg/L		
Calcium, dissolved	MW-16	12/09/2010		13	mg/L		
Calcium, dissolved	MW-16	03/30/2011		9.8	mg/L		
Calcium, dissolved	MW-16	06/07/2011		9.7	mg/L		
Calcium, dissolved	MW-16	09/27/2011		12	mg/L		
Calcium, dissolved	MW-16	12/13/2011		11	mg/L		
Calcium, dissolved	MW-16	03/21/2012		8.9	mg/L		
Calcium, dissolved	MW-16	06/08/2012		9.1	mg/L		
Calcium, dissolved	MW-16	09/27/2012		11	mg/L		
Calcium, dissolved	MW-16	12/04/2012		11	mg/L		
Calcium, dissolved	MW-16	03/12/2013		10	mg/L		
Calcium, dissolved	MW-16	06/04/2013		10	mg/L		
Calcium, dissolved	MW-16	09/05/2013		11	mg/L		
Calcium, dissolved	MW-16	12/16/2013		11	mg/L		
Calcium, dissolved	MW-16	03/05/2014		9.8	mg/L		
Calcium, dissolved	MW-16	06/02/2014		8.8	mg/L		
Calcium, dissolved	MW-16	09/22/2014		9.9	mg/L		
Calcium, dissolved	MW-16	11/18/2014		11	mg/L		
Calcium, dissolved	MW-16	02/23/2015		9.5	mg/L		
Calcium, dissolved	MW-16	05/20/2015		10	mg/L		
Calcium, dissolved	MW-16	08/26/2015		9.8	mg/L		
Calcium, dissolved	MW-16	11/11/2015		12	mg/L		
Calcium, dissolved	MW-16	02/24/2016		7.7	mg/L		
Calcium, dissolved	MW-16	05/16/2016		8.4	mg/L		
Calcium, dissolved	MW-16	08/31/2016		12	mg/L		
Calcium, dissolved	MW-16	11/14/2016		9.6	mg/L		
Calcium, dissolved	MW-16	02/22/2017		8.4	mg/L		
Calcium, dissolved	MW-16	05/24/2017		7.6	mg/L		
Calcium, dissolved	MW-16	08/30/2017		9.2	mg/L		
Calcium, dissolved	MW-16	11/13/2017		8.9	mg/L		
Calcium, dissolved	MW-16	02/20/2018		7.5	mg/L		
Calcium, dissolved	MW-16	05/17/2018		7.9	mg/L		
Calcium, dissolved	MW-16	08/22/2018		8.8	mg/L		
Calcium, dissolved	MW-16	11/12/2018		9.7	mg/L		
Calcium, dissolved	MW-16	11/12/2019		12	mg/L		
Calcium, dissolved	MW-16	11/20/2020		13	mg/L		
Calcium, dissolved	MW-16	11/16/2021		12	mg/L		
Calcium, dissolved	MW-16	11/17/2022		10	mg/L		
Calcium, dissolved	MW-16	11/08/2023		11	mg/L		
Calcium, dissolved	MW-16	11/14/2024		13	mg/L		
Calcium, dissolved	MW-35	03/22/2005		13.9	mg/L		
Calcium, dissolved	MW-35	06/14/2005		12.9	mg/L		
Calcium, dissolved	MW-35	09/27/2005		14.8	mg/L		
Calcium, dissolved	MW-35	12/15/2005		13.2	mg/L		
Calcium, dissolved	MW-35	03/28/2006		14	mg/L		
Calcium, dissolved	MW-35	06/21/2006		14	mg/L		
Calcium, dissolved	MW-35	09/26/2006		13	mg/L		
Calcium, dissolved	MW-35	12/12/2006		14	mg/L		
Calcium, dissolved	MW-35	03/27/2007		13	mg/L		
Calcium, dissolved	MW-35	06/20/2007		14	mg/L		
Calcium, dissolved	MW-35	09/18/2007		14	mg/L		
Calcium, dissolved	MW-35	12/20/2007		13	mg/L		
Calcium, dissolved	MW-35	03/25/2008		13	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Calcium, dissolved	MW-35	06/18/2008		13	mg/L		
Calcium, dissolved	MW-35	09/18/2008		13	mg/L		
Calcium, dissolved	MW-35	12/19/2008		12	mg/L		
Calcium, dissolved	MW-35	03/24/2009		13	mg/L		
Calcium, dissolved	MW-35	06/16/2009		13	mg/L		
Calcium, dissolved	MW-35	09/10/2009		12	mg/L		
Calcium, dissolved	MW-35	12/03/2009		13	mg/L		
Calcium, dissolved	MW-35	03/25/2010		13	mg/L		
Calcium, dissolved	MW-35	06/23/2010		13	mg/L		
Calcium, dissolved	MW-35	09/23/2010		13	mg/L		
Calcium, dissolved	MW-35	12/09/2010		14	mg/L		
Calcium, dissolved	MW-35	03/30/2011		14	mg/L		
Calcium, dissolved	MW-35	06/06/2011		13	mg/L		
Calcium, dissolved	MW-35	09/26/2011		14	mg/L		
Calcium, dissolved	MW-35	12/13/2011		14	mg/L		
Calcium, dissolved	MW-35	03/21/2012		14	mg/L		
Calcium, dissolved	MW-35	06/06/2012		13	mg/L		
Calcium, dissolved	MW-35	09/26/2012		13	mg/L		
Calcium, dissolved	MW-35	12/04/2012		14	mg/L		
Calcium, dissolved	MW-35	03/13/2013		14	mg/L		
Calcium, dissolved	MW-35	06/06/2013		13	mg/L		
Calcium, dissolved	MW-35	09/05/2013		13	mg/L		
Calcium, dissolved	MW-35	12/16/2013		14	mg/L		
Calcium, dissolved	MW-35	03/04/2014		14	mg/L		
Calcium, dissolved	MW-35	06/02/2014		14	mg/L		
Calcium, dissolved	MW-35	09/22/2014		13	mg/L		
Calcium, dissolved	MW-35	11/17/2014		14	mg/L		
Calcium, dissolved	MW-35	02/25/2015		15	mg/L		
Calcium, dissolved	MW-35	05/19/2015		13	mg/L		
Calcium, dissolved	MW-35	08/26/2015		13	mg/L		
Calcium, dissolved	MW-35	11/10/2015		15	mg/L		
Calcium, dissolved	MW-35	02/22/2016		15	mg/L		
Calcium, dissolved	MW-35	05/16/2016		14	mg/L		
Calcium, dissolved	MW-35	08/31/2016		15	mg/L		
Calcium, dissolved	MW-35	11/15/2016		14	mg/L		
Calcium, dissolved	MW-35	02/22/2017		15	mg/L		
Calcium, dissolved	MW-35	05/24/2017		13	mg/L		
Calcium, dissolved	MW-35	08/30/2017		14	mg/L		
Calcium, dissolved	MW-35	11/15/2017		13	mg/L		
Calcium, dissolved	MW-35	02/20/2018		13	mg/L		
Calcium, dissolved	MW-35	05/17/2018		14	mg/L		
Calcium, dissolved	MW-35	08/22/2018		14	mg/L		
Calcium, dissolved	MW-35	11/12/2018		15	mg/L		
Calcium, dissolved	MW-35	11/12/2019		14	mg/L		
Calcium, dissolved	MW-35	11/19/2020		14	mg/L		
Calcium, dissolved	MW-35	11/16/2021		15	mg/L		
Calcium, dissolved	MW-35	11/17/2022		14	mg/L		
Calcium, dissolved	MW-35	11/08/2023		14	mg/L		
Calcium, dissolved	MW-35	11/14/2024		16	mg/L		
Chloride	MW-13A	03/22/2005		2.6	mg/L		
Chloride	MW-13A	06/15/2005		1.9	mg/L		
Chloride	MW-13A	09/27/2005		2.4	mg/L		
Chloride	MW-13A	12/15/2005		2.1	mg/L		
Chloride	MW-13A	03/28/2006		3	mg/L		
Chloride	MW-13A	06/21/2006		2.4	mg/L		
Chloride	MW-13A	09/26/2006		2.6	mg/L		
Chloride	MW-13A	12/13/2006		3	mg/L		
Chloride	MW-13A	03/27/2007		2.8	mg/L		
Chloride	MW-13A	06/19/2007		2.6	mg/L		
Chloride	MW-13A	09/19/2007		2.6	mg/L		
Chloride	MW-13A	12/19/2007		2.6	mg/L		
Chloride	MW-13A	03/25/2008		2.5	mg/L		

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** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Chloride	MW-13A	06/18/2008		2.6	mg/L		
Chloride	MW-13A	09/17/2008		2.5	mg/L		
Chloride	MW-13A	12/17/2008		3.1	mg/L		
Chloride	MW-13A	03/24/2009		2.7	mg/L		
Chloride	MW-13A	06/17/2009		2.4	mg/L		
Chloride	MW-13A	09/10/2009		2.1	mg/L		
Chloride	MW-13A	12/03/2009		3.4	mg/L		
Chloride	MW-13A	03/25/2010		2.2	mg/L		
Chloride	MW-13A	06/23/2010		2.6	mg/L		
Chloride	MW-13A	09/23/2010		2.8	mg/L		
Chloride	MW-13A	12/08/2010		2.9	mg/L		
Chloride	MW-13A	03/30/2011		2.9	mg/L		
Chloride	MW-13A	06/06/2011		3	mg/L		
Chloride	MW-13A	09/27/2011		3.8	mg/L		
Chloride	MW-13A	12/14/2011		4.4	mg/L		
Chloride	MW-13A	03/21/2012		2.7	mg/L		
Chloride	MW-13A	06/08/2012		3	mg/L		
Chloride	MW-13A	09/26/2012		2.6	mg/L		
Chloride	MW-13A	12/03/2012		1.8	mg/L		
Chloride	MW-13A	03/11/2013		3	mg/L		
Chloride	MW-13A	06/05/2013		1.7	mg/L		
Chloride	MW-13A	12/03/2013		1.7	mg/L		
Chloride	MW-13A	03/04/2014		1.7	mg/L		
Chloride	MW-13A	06/02/2014		2	mg/L		
Chloride	MW-13A	09/22/2014		1.7	mg/L		
Chloride	MW-13A	11/17/2014		1.9	mg/L		
Chloride	MW-13A	02/23/2015		1.8	mg/L		
Chloride	MW-13A	05/19/2015		1.9	mg/L		
Chloride	MW-13A	08/26/2015		2.1	mg/L		
Chloride	MW-13A	11/10/2015		1.9	mg/L		
Chloride	MW-13A	02/22/2016		1.9	mg/L		
Chloride	MW-13A	05/16/2016		1.9	mg/L		
Chloride	MW-13A	08/31/2016		1.9	mg/L		
Chloride	MW-13A	11/14/2016		1.8	mg/L		
Chloride	MW-13A	02/22/2017		2	mg/L		
Chloride	MW-13A	05/24/2017		1.9	mg/L		
Chloride	MW-13A	08/30/2017		2.4	mg/L		
Chloride	MW-13A	11/13/2017		1.7	mg/L		
Chloride	MW-13A	02/20/2018		2.1	mg/L		
Chloride	MW-13A	05/15/2018		1.8	mg/L		
Chloride	MW-13A	08/21/2018		1.8	mg/L		
Chloride	MW-13A	11/12/2018		1.9	mg/L		
Chloride	MW-13A	11/11/2019	ND	3	mg/L		
Chloride	MW-13A	11/19/2020	ND	3	mg/L		
Chloride	MW-13A	11/16/2021	ND	3	mg/L		
Chloride	MW-13A	11/17/2022	ND	3	mg/L		
Chloride	MW-13A	11/08/2023	ND	3	mg/L		
Chloride	MW-13A	11/14/2024	ND	3	mg/L		
Chloride	MW-13B	03/22/2005		3	mg/L		
Chloride	MW-13B	06/15/2005		2.3	mg/L		
Chloride	MW-13B	09/27/2005		2.8	mg/L		
Chloride	MW-13B	12/15/2005		2.4	mg/L		
Chloride	MW-13B	03/29/2006		3.2	mg/L		
Chloride	MW-13B	06/21/2006		2.9	mg/L		
Chloride	MW-13B	09/26/2006		2.7	mg/L		
Chloride	MW-13B	12/13/2006		3.3	mg/L		
Chloride	MW-13B	03/27/2007		3	mg/L		
Chloride	MW-13B	06/19/2007		2.8	mg/L		
Chloride	MW-13B	09/18/2007		2.8	mg/L		
Chloride	MW-13B	12/19/2007		2.8	mg/L		
Chloride	MW-13B	03/25/2008		2.7	mg/L		
Chloride	MW-13B	06/18/2008		2.8	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Chloride	MW-13B	09/17/2008		2.7	mg/L		
Chloride	MW-13B	12/16/2008		3.2	mg/L		
Chloride	MW-13B	03/24/2009		2.6	mg/L		
Chloride	MW-13B	06/17/2009		3	mg/L		
Chloride	MW-13B	09/10/2009		2.3	mg/L		
Chloride	MW-13B	12/03/2009		2.9	mg/L		
Chloride	MW-13B	03/25/2010		2.5	mg/L		
Chloride	MW-13B	06/23/2010		2.8	mg/L		
Chloride	MW-13B	09/23/2010		3	mg/L		
Chloride	MW-13B	12/08/2010		2.5	mg/L		
Chloride	MW-13B	03/30/2011		3.1	mg/L		
Chloride	MW-13B	06/06/2011		3.2	mg/L		
Chloride	MW-13B	09/27/2011		3.7	mg/L		
Chloride	MW-13B	12/14/2011		3.4	mg/L		
Chloride	MW-13B	03/21/2012		2.8	mg/L		
Chloride	MW-13B	06/08/2012		3.4	mg/L		
Chloride	MW-13B	09/26/2012		2.9	mg/L		
Chloride	MW-13B	12/03/2012		2.1	mg/L		
Chloride	MW-13B	03/11/2013		2.1	mg/L		
Chloride	MW-13B	06/05/2013		2	mg/L		
Chloride	MW-13B	12/03/2013		1.9	mg/L		
Chloride	MW-13B	03/04/2014		1.9	mg/L		
Chloride	MW-13B	06/02/2014		2.1	mg/L		
Chloride	MW-13B	09/22/2014		1.9	mg/L		
Chloride	MW-13B	11/17/2014		2.1	mg/L		
Chloride	MW-13B	02/23/2015		2	mg/L		
Chloride	MW-13B	05/19/2015		2	mg/L		
Chloride	MW-13B	08/26/2015		2.1	mg/L		
Chloride	MW-13B	11/10/2015		2	mg/L		
Chloride	MW-13B	02/22/2016		2	mg/L		
Chloride	MW-13B	05/16/2016		2	mg/L		
Chloride	MW-13B	08/31/2016		2	mg/L		
Chloride	MW-13B	11/14/2016		1.9	mg/L		
Chloride	MW-13B	02/22/2017		2	mg/L		
Chloride	MW-13B	05/24/2017		2	mg/L		
Chloride	MW-13B	08/30/2017		2.2	mg/L		
Chloride	MW-13B	11/13/2017		1.9	mg/L		
Chloride	MW-13B	02/20/2018		2.2	mg/L		
Chloride	MW-13B	05/15/2018		1.9	mg/L		
Chloride	MW-13B	08/21/2018		1.9	mg/L		
Chloride	MW-13B	11/12/2018		2	mg/L		
Chloride	MW-13B	11/11/2019	ND	3	mg/L		
Chloride	MW-13B	11/19/2020	ND	3	mg/L		
Chloride	MW-13B	11/16/2021	ND	3	mg/L		
Chloride	MW-13B	11/17/2022	ND	3	mg/L		
Chloride	MW-13B	11/08/2023	ND	3	mg/L		
Chloride	MW-13B	11/14/2024		6.3	mg/L		
Chloride	MW-16	03/24/2009		2.1	mg/L		
Chloride	MW-16	06/16/2009		2.2	mg/L		
Chloride	MW-16	09/09/2009		1.3	mg/L		
Chloride	MW-16	12/03/2009		1.9	mg/L		
Chloride	MW-16	03/25/2010		1.7	mg/L		
Chloride	MW-16	06/24/2010		1.6	mg/L		
Chloride	MW-16	09/24/2010		1.7	mg/L		
Chloride	MW-16	12/09/2010		2.3	mg/L		
Chloride	MW-16	03/30/2011		3.6	mg/L		
Chloride	MW-16	06/07/2011		2.4	mg/L		
Chloride	MW-16	09/27/2011		3.9	mg/L		
Chloride	MW-16	12/13/2011		2.1	mg/L		
Chloride	MW-16	03/21/2012		2.2	mg/L		
Chloride	MW-16	06/08/2012		2.8	mg/L		
Chloride	MW-16	09/27/2012		1	mg/L		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Chloride	MW-16	12/04/2012		1.3	mg/L		
Chloride	MW-16	03/12/2013		1.3	mg/L		
Chloride	MW-16	06/04/2013		1.3	mg/L		
Chloride	MW-16	09/05/2013		1.3	mg/L		
Chloride	MW-16	12/16/2013	ND	1	mg/L	3	**
Chloride	MW-16	03/05/2014		1	mg/L		
Chloride	MW-16	06/02/2014		1.4	mg/L		
Chloride	MW-16	09/22/2014		1.1	mg/L		
Chloride	MW-16	11/18/2014		1.5	mg/L		
Chloride	MW-16	02/23/2015		1.2	mg/L		
Chloride	MW-16	05/20/2015		1.4	mg/L		
Chloride	MW-16	08/26/2015		1.1	mg/L		
Chloride	MW-16	11/11/2015	ND	1	mg/L	3	**
Chloride	MW-16	02/24/2016		1.2	mg/L		
Chloride	MW-16	05/16/2016		1.2	mg/L		
Chloride	MW-16	08/31/2016		1.1	mg/L		
Chloride	MW-16	11/14/2016		1	mg/L		
Chloride	MW-16	02/22/2017		1.3	mg/L		
Chloride	MW-16	05/24/2017		1.2	mg/L		
Chloride	MW-16	08/30/2017	ND	1	mg/L	3	**
Chloride	MW-16	11/13/2017	ND	1	mg/L	3	**
Chloride	MW-16	02/20/2018		1.6	mg/L		
Chloride	MW-16	05/17/2018		1.1	mg/L		
Chloride	MW-16	08/22/2018		1.7	mg/L		
Chloride	MW-16	11/12/2018		1.4	mg/L		
Chloride	MW-16	11/12/2019	ND	3	mg/L		
Chloride	MW-16	11/20/2020	ND	3	mg/L		
Chloride	MW-16	11/16/2021	ND	3	mg/L		
Chloride	MW-16	11/17/2022	ND	3	mg/L		
Chloride	MW-16	11/08/2023	ND	3	mg/L		
Chloride	MW-16	11/14/2024	ND	3	mg/L		
Chloride	MW-35	03/22/2005		2.2	mg/L		
Chloride	MW-35	06/14/2005		2.2	mg/L		
Chloride	MW-35	09/27/2005		2.6	mg/L		
Chloride	MW-35	12/15/2005		1.9	mg/L		
Chloride	MW-35	03/28/2006		2.9	mg/L		
Chloride	MW-35	06/21/2006		2.8	mg/L		
Chloride	MW-35	09/26/2006		2.5	mg/L		
Chloride	MW-35	12/12/2006		3	mg/L		
Chloride	MW-35	03/27/2007		2.8	mg/L		
Chloride	MW-35	06/20/2007		2.6	mg/L		
Chloride	MW-35	09/18/2007		2.4	mg/L		
Chloride	MW-35	12/20/2007		2.3	mg/L		
Chloride	MW-35	03/25/2008		2.4	mg/L		
Chloride	MW-35	06/18/2008		2.6	mg/L		
Chloride	MW-35	09/18/2008		2.4	mg/L		
Chloride	MW-35	12/19/2008		2.9	mg/L		
Chloride	MW-35	03/24/2009		2.3	mg/L		
Chloride	MW-35	06/16/2009		2.4	mg/L		
Chloride	MW-35	09/10/2009		2.5	mg/L		
Chloride	MW-35	12/03/2009		2.8	mg/L		
Chloride	MW-35	03/25/2010		2	mg/L		
Chloride	MW-35	06/23/2010		2.1	mg/L		
Chloride	MW-35	09/23/2010		2.6	mg/L		
Chloride	MW-35	12/09/2010		2.7	mg/L		
Chloride	MW-35	03/30/2011		3.2	mg/L		
Chloride	MW-35	06/06/2011		2.3	mg/L		
Chloride	MW-35	09/26/2011		3	mg/L		
Chloride	MW-35	12/13/2011		3.2	mg/L		
Chloride	MW-35	03/21/2012		2.9	mg/L		
Chloride	MW-35	06/06/2012		1.3	mg/L		
Chloride	MW-35	09/26/2012		2.4	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Chloride	MW-35	12/04/2012		1.9	mg/L		
Chloride	MW-35	03/13/2013		1.8	mg/L		
Chloride	MW-35	06/06/2013		1.7	mg/L		
Chloride	MW-35	09/05/2013		1.8	mg/L		
Chloride	MW-35	12/16/2013		1.7	mg/L		
Chloride	MW-35	03/04/2014		1.8	mg/L		
Chloride	MW-35	06/02/2014		2	mg/L		
Chloride	MW-35	09/22/2014		1.7	mg/L		
Chloride	MW-35	11/17/2014		1.8	mg/L		
Chloride	MW-35	02/25/2015		1.8	mg/L		
Chloride	MW-35	05/19/2015		1.9	mg/L		
Chloride	MW-35	08/26/2015		1.9	mg/L		
Chloride	MW-35	11/10/2015		1.8	mg/L		
Chloride	MW-35	02/22/2016		2.1	mg/L		
Chloride	MW-35	05/16/2016		1.9	mg/L		
Chloride	MW-35	08/31/2016		1.9	mg/L		
Chloride	MW-35	11/15/2016		1.8	mg/L		
Chloride	MW-35	02/22/2017		1.9	mg/L		
Chloride	MW-35	05/24/2017		1.9	mg/L		
Chloride	MW-35	08/30/2017		1.6	mg/L		
Chloride	MW-35	11/15/2017		1.7	mg/L		
Chloride	MW-35	02/20/2018		2.1	mg/L		
Chloride	MW-35	05/17/2018		1.9	mg/L		
Chloride	MW-35	08/22/2018		2.1	mg/L		
Chloride	MW-35	11/12/2018		1.9	mg/L		
Chloride	MW-35	11/12/2019	ND	3	mg/L		
Chloride	MW-35	11/19/2020	ND	3	mg/L		
Chloride	MW-35	11/16/2021	ND	3	mg/L		
Chloride	MW-35	11/17/2022	ND	3	mg/L		
Chloride	MW-35	11/08/2023	ND	3	mg/L		
Chloride	MW-35	11/14/2024	ND	3	mg/L		
Chromium, total	MW-13A	12/03/2013	ND	0.003	mg/L		
Chromium, total	MW-13A	03/04/2014	ND	0.003	mg/L		
Chromium, total	MW-13A	06/02/2014	ND	0.003	mg/L		
Chromium, total	MW-13A	09/22/2014	ND	0.003	mg/L		
Chromium, total	MW-13A	11/17/2014	ND	0.003	mg/L		
Chromium, total	MW-13A	02/23/2015	ND	0.003	mg/L		
Chromium, total	MW-13A	05/19/2015	ND	0.003	mg/L		
Chromium, total	MW-13A	08/26/2015	ND	0.003	mg/L		
Chromium, total	MW-13A	11/10/2015	ND	0.003	mg/L		
Chromium, total	MW-13A	02/22/2016	ND	0.003	mg/L		
Chromium, total	MW-13A	05/16/2016	ND	0.003	mg/L		
Chromium, total	MW-13A	08/31/2016	ND	0.003	mg/L		
Chromium, total	MW-13A	11/14/2016	ND	0.003	mg/L		
Chromium, total	MW-13A	02/22/2017	ND	0.003	mg/L		
Chromium, total	MW-13A	05/24/2017	ND	0.003	mg/L		
Chromium, total	MW-13A	08/30/2017	ND	0.003	mg/L		
Chromium, total	MW-13A	11/13/2017	ND	0.003	mg/L		
Chromium, total	MW-13A	02/20/2018	ND	0.003	mg/L		
Chromium, total	MW-13A	05/15/2018	ND	0.003	mg/L		
Chromium, total	MW-13A	08/21/2018	ND	0.003	mg/L		
Chromium, total	MW-13A	11/12/2018	ND	0.003	mg/L		
Chromium, total	MW-13A	11/11/2019	ND	0.003	mg/L		
Chromium, total	MW-13A	11/19/2020	ND	0.003	mg/L		
Chromium, total	MW-13A	11/16/2021	ND	0.003	mg/L		
Chromium, total	MW-13A	11/17/2022	ND	0.003	mg/L		
Chromium, total	MW-13A	11/08/2023	ND	0.003	mg/L		
Chromium, total	MW-13A	11/14/2024	ND	0.003	mg/L		
Chromium, total	MW-13B	12/03/2013		0.003	mg/L		
Chromium, total	MW-13B	03/04/2014		0.0032	mg/L		
Chromium, total	MW-13B	06/02/2014		0.0033	mg/L		
Chromium, total	MW-13B	09/22/2014	ND	0.003	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

Chromium, total	MW-13B	11/17/2014		0.0032	mg/L		
Chromium, total	MW-13B	02/23/2015	ND	0.003	mg/L		
Chromium, total	MW-13B	05/19/2015		0.003	mg/L		
Chromium, total	MW-13B	08/26/2015	ND	0.003	mg/L		
Chromium, total	MW-13B	11/10/2015		0.0033	mg/L		
Chromium, total	MW-13B	02/22/2016		0.0033	mg/L		
Chromium, total	MW-13B	05/16/2016		0.0032	mg/L		
Chromium, total	MW-13B	08/31/2016		0.0031	mg/L		
Chromium, total	MW-13B	11/14/2016		0.0036	mg/L		
Chromium, total	MW-13B	02/22/2017		0.0033	mg/L		
Chromium, total	MW-13B	05/24/2017	ND	0.003	mg/L		
Chromium, total	MW-13B	08/30/2017		0.0031	mg/L		
Chromium, total	MW-13B	11/13/2017		0.0034	mg/L		
Chromium, total	MW-13B	02/20/2018		0.0031	mg/L		
Chromium, total	MW-13B	05/15/2018	ND	0.003	mg/L		
Chromium, total	MW-13B	08/21/2018		0.0031	mg/L		
Chromium, total	MW-13B	11/12/2018		0.003	mg/L		
Chromium, total	MW-13B	11/11/2019	ND	0.003	mg/L		
Chromium, total	MW-13B	11/19/2020	ND	0.003	mg/L		
Chromium, total	MW-13B	11/16/2021		0.0034	mg/L		
Chromium, total	MW-13B	11/17/2022		0.0034	mg/L		
Chromium, total	MW-13B	11/08/2023		0.0034	mg/L		
Chromium, total	MW-13B	11/14/2024	ND	0.003	mg/L		
Chromium, total	MW-16	09/05/2013		0.0063	mg/L		
Chromium, total	MW-16	12/16/2013		0.008	mg/L		
Chromium, total	MW-16	03/05/2014		0.0085	mg/L		
Chromium, total	MW-16	06/02/2014		0.0087	mg/L		
Chromium, total	MW-16	09/22/2014		0.0073	mg/L		
Chromium, total	MW-16	11/18/2014		0.0077	mg/L		
Chromium, total	MW-16	02/23/2015		0.009	mg/L		
Chromium, total	MW-16	05/20/2015		0.007	mg/L		
Chromium, total	MW-16	08/26/2015		0.0064	mg/L		
Chromium, total	MW-16	11/11/2015		0.0071	mg/L		
Chromium, total	MW-16	02/24/2016		0.0077	mg/L		
Chromium, total	MW-16	05/16/2016		0.0066	mg/L		
Chromium, total	MW-16	08/31/2016		0.0092	mg/L		
Chromium, total	MW-16	11/14/2016		0.0085	mg/L		
Chromium, total	MW-16	02/22/2017		0.0088	mg/L		
Chromium, total	MW-16	05/24/2017		0.0079	mg/L		
Chromium, total	MW-16	08/30/2017		0.0075	mg/L		
Chromium, total	MW-16	11/13/2017		0.0073	mg/L		
Chromium, total	MW-16	02/20/2018		0.0072	mg/L		
Chromium, total	MW-16	05/17/2018		0.0091	mg/L		
Chromium, total	MW-16	08/22/2018		0.007	mg/L		
Chromium, total	MW-16	11/12/2018		0.0092	mg/L		
Chromium, total	MW-16	11/12/2019		0.0076	mg/L		
Chromium, total	MW-16	11/20/2020		0.019	mg/L		
Chromium, total	MW-16	11/16/2021		0.0088	mg/L		
Chromium, total	MW-16	11/17/2022		0.0085	mg/L		
Chromium, total	MW-16	11/08/2023		0.0081	mg/L		
Chromium, total	MW-16	11/14/2024		0.0081	mg/L		
Chromium, total	MW-35	09/05/2013	ND	0.003	mg/L		
Chromium, total	MW-35	12/16/2013	ND	0.003	mg/L		
Chromium, total	MW-35	03/04/2014	ND	0.003	mg/L		
Chromium, total	MW-35	06/02/2014	ND	0.003	mg/L		
Chromium, total	MW-35	09/22/2014	ND	0.003	mg/L		
Chromium, total	MW-35	11/17/2014	ND	0.003	mg/L		
Chromium, total	MW-35	02/25/2015	ND	0.003	mg/L		
Chromium, total	MW-35	05/19/2015	ND	0.003	mg/L		
Chromium, total	MW-35	08/26/2015	ND	0.003	mg/L		
Chromium, total	MW-35	11/10/2015	ND	0.003	mg/L		
Chromium, total	MW-35	02/22/2016	ND	0.003	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Chromium, total	MW-35	05/16/2016	ND	0.003	mg/L		
Chromium, total	MW-35	08/31/2016	ND	0.003	mg/L		
Chromium, total	MW-35	11/15/2016	ND	0.003	mg/L		
Chromium, total	MW-35	02/22/2017	ND	0.003	mg/L		
Chromium, total	MW-35	05/24/2017	ND	0.003	mg/L		
Chromium, total	MW-35	08/30/2017	ND	0.003	mg/L		
Chromium, total	MW-35	11/15/2017	ND	0.003	mg/L		
Chromium, total	MW-35	02/20/2018	ND	0.003	mg/L		
Chromium, total	MW-35	05/17/2018	ND	0.003	mg/L		
Chromium, total	MW-35	08/22/2018		0.0047	mg/L		
Chromium, total	MW-35	11/12/2018	ND	0.003	mg/L		
Chromium, total	MW-35	11/12/2019	ND	0.003	mg/L		
Chromium, total	MW-35	11/19/2020	ND	0.003	mg/L		
Chromium, total	MW-35	11/16/2021	ND	0.003	mg/L		
Chromium, total	MW-35	11/17/2022	ND	0.003	mg/L		
Chromium, total	MW-35	11/08/2023	ND	0.003	mg/L		
Chromium, total	MW-35	11/14/2024	ND	0.003	mg/L		
Cobalt, total	MW-13A	12/03/2013	ND	0.003	mg/L		
Cobalt, total	MW-13A	03/04/2014	ND	0.003	mg/L		
Cobalt, total	MW-13A	06/02/2014	ND	0.003	mg/L		
Cobalt, total	MW-13A	09/22/2014	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/17/2014	ND	0.003	mg/L		
Cobalt, total	MW-13A	02/23/2015	ND	0.003	mg/L		
Cobalt, total	MW-13A	05/19/2015	ND	0.003	mg/L		
Cobalt, total	MW-13A	08/26/2015	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/10/2015	ND	0.003	mg/L		
Cobalt, total	MW-13A	02/22/2016	ND	0.003	mg/L		
Cobalt, total	MW-13A	05/16/2016	ND	0.003	mg/L		
Cobalt, total	MW-13A	08/31/2016	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/14/2016	ND	0.003	mg/L		
Cobalt, total	MW-13A	02/22/2017	ND	0.003	mg/L		
Cobalt, total	MW-13A	05/24/2017	ND	0.003	mg/L		
Cobalt, total	MW-13A	08/30/2017	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/13/2017	ND	0.003	mg/L		
Cobalt, total	MW-13A	02/20/2018	ND	0.003	mg/L		
Cobalt, total	MW-13A	05/15/2018	ND	0.003	mg/L		
Cobalt, total	MW-13A	08/21/2018	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/12/2018	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/11/2019	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/19/2020	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/16/2021	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/17/2022	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/08/2023	ND	0.003	mg/L		
Cobalt, total	MW-13A	11/14/2024	ND	0.003	mg/L		
Cobalt, total	MW-13B	12/03/2013	ND	0.003	mg/L		
Cobalt, total	MW-13B	03/04/2014	ND	0.003	mg/L		
Cobalt, total	MW-13B	06/02/2014	ND	0.003	mg/L		
Cobalt, total	MW-13B	09/22/2014	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/17/2014	ND	0.003	mg/L		
Cobalt, total	MW-13B	02/23/2015	ND	0.003	mg/L		
Cobalt, total	MW-13B	05/19/2015	ND	0.003	mg/L		
Cobalt, total	MW-13B	08/26/2015	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/10/2015	ND	0.003	mg/L		
Cobalt, total	MW-13B	02/22/2016	ND	0.003	mg/L		
Cobalt, total	MW-13B	05/16/2016	ND	0.003	mg/L		
Cobalt, total	MW-13B	08/31/2016	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/14/2016	ND	0.003	mg/L		
Cobalt, total	MW-13B	02/22/2017	ND	0.003	mg/L		
Cobalt, total	MW-13B	05/24/2017	ND	0.003	mg/L		
Cobalt, total	MW-13B	08/30/2017	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/13/2017	ND	0.003	mg/L		
Cobalt, total	MW-13B	02/20/2018	ND	0.003	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Cobalt, total	MW-13B	05/15/2018	ND	0.003	mg/L		
Cobalt, total	MW-13B	08/21/2018	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/12/2018	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/11/2019	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/19/2020	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/16/2021	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/17/2022	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/08/2023	ND	0.003	mg/L		
Cobalt, total	MW-13B	11/14/2024	ND	0.003	mg/L		
Cobalt, total	MW-16	09/05/2013	ND	0.003	mg/L		
Cobalt, total	MW-16	12/16/2013	ND	0.003	mg/L		
Cobalt, total	MW-16	03/05/2014	ND	0.003	mg/L		
Cobalt, total	MW-16	06/02/2014	ND	0.003	mg/L		
Cobalt, total	MW-16	09/22/2014	ND	0.003	mg/L		
Cobalt, total	MW-16	11/18/2014	ND	0.003	mg/L		
Cobalt, total	MW-16	02/23/2015	ND	0.003	mg/L		
Cobalt, total	MW-16	05/20/2015	ND	0.003	mg/L		
Cobalt, total	MW-16	08/26/2015	ND	0.003	mg/L		
Cobalt, total	MW-16	11/11/2015	ND	0.003	mg/L		
Cobalt, total	MW-16	02/24/2016	ND	0.003	mg/L		
Cobalt, total	MW-16	05/16/2016	ND	0.003	mg/L		
Cobalt, total	MW-16	08/31/2016	ND	0.003	mg/L		
Cobalt, total	MW-16	11/14/2016	ND	0.003	mg/L		
Cobalt, total	MW-16	02/22/2017	ND	0.003	mg/L		
Cobalt, total	MW-16	05/24/2017	ND	0.003	mg/L		
Cobalt, total	MW-16	08/30/2017	ND	0.003	mg/L		
Cobalt, total	MW-16	11/13/2017	ND	0.003	mg/L		
Cobalt, total	MW-16	02/20/2018	ND	0.003	mg/L		
Cobalt, total	MW-16	05/17/2018	ND	0.003	mg/L		
Cobalt, total	MW-16	08/22/2018	ND	0.003	mg/L		
Cobalt, total	MW-16	11/12/2018	ND	0.003	mg/L		
Cobalt, total	MW-16	11/12/2019	ND	0.003	mg/L		
Cobalt, total	MW-16	11/20/2020	ND	0.003	mg/L		
Cobalt, total	MW-16	11/16/2021	ND	0.003	mg/L		
Cobalt, total	MW-16	11/17/2022	ND	0.003	mg/L		
Cobalt, total	MW-16	11/08/2023	ND	0.003	mg/L		
Cobalt, total	MW-16	11/14/2024	ND	0.003	mg/L		
Cobalt, total	MW-35	09/05/2013	ND	0.003	mg/L		
Cobalt, total	MW-35	12/16/2013	ND	0.003	mg/L		
Cobalt, total	MW-35	03/04/2014	ND	0.003	mg/L		
Cobalt, total	MW-35	06/02/2014	ND	0.003	mg/L		
Cobalt, total	MW-35	09/22/2014	ND	0.003	mg/L		
Cobalt, total	MW-35	11/17/2014	ND	0.003	mg/L		
Cobalt, total	MW-35	02/25/2015	ND	0.003	mg/L		
Cobalt, total	MW-35	05/19/2015	ND	0.003	mg/L		
Cobalt, total	MW-35	08/26/2015	ND	0.003	mg/L		
Cobalt, total	MW-35	11/10/2015	ND	0.003	mg/L		
Cobalt, total	MW-35	02/22/2016	ND	0.003	mg/L		
Cobalt, total	MW-35	05/16/2016	ND	0.003	mg/L		
Cobalt, total	MW-35	08/31/2016	ND	0.003	mg/L		
Cobalt, total	MW-35	11/15/2016	ND	0.003	mg/L		
Cobalt, total	MW-35	02/22/2017	ND	0.003	mg/L		
Cobalt, total	MW-35	05/24/2017	ND	0.003	mg/L		
Cobalt, total	MW-35	08/30/2017	ND	0.003	mg/L		
Cobalt, total	MW-35	11/15/2017	ND	0.003	mg/L		
Cobalt, total	MW-35	02/20/2018	ND	0.003	mg/L		
Cobalt, total	MW-35	05/17/2018	ND	0.003	mg/L		
Cobalt, total	MW-35	08/22/2018	ND	0.003	mg/L		
Cobalt, total	MW-35	11/12/2018	ND	0.003	mg/L		
Cobalt, total	MW-35	11/12/2019	ND	0.003	mg/L		
Cobalt, total	MW-35	11/19/2020	ND	0.003	mg/L		
Cobalt, total	MW-35	11/16/2021	ND	0.003	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Cobalt, total	MW-35	11/17/2022	ND	0.003	mg/L		
Cobalt, total	MW-35	11/08/2023	ND	0.003	mg/L		
Cobalt, total	MW-35	11/14/2024	ND	0.003	mg/L		
Copper, total	MW-13A	12/03/2013	ND	0.002	mg/L		
Copper, total	MW-13A	03/04/2014	ND	0.002	mg/L		
Copper, total	MW-13A	06/02/2014	ND	0.002	mg/L		
Copper, total	MW-13A	09/22/2014	ND	0.002	mg/L		
Copper, total	MW-13A	11/17/2014	ND	0.002	mg/L		
Copper, total	MW-13A	02/23/2015	ND	0.002	mg/L		
Copper, total	MW-13A	05/19/2015	ND	0.002	mg/L		
Copper, total	MW-13A	08/26/2015	ND	0.002	mg/L		
Copper, total	MW-13A	11/10/2015	ND	0.002	mg/L		
Copper, total	MW-13A	02/22/2016	ND	0.002	mg/L		
Copper, total	MW-13A	05/16/2016	ND	0.002	mg/L		
Copper, total	MW-13A	08/31/2016	ND	0.002	mg/L		
Copper, total	MW-13A	11/14/2016		0.0021	mg/L		
Copper, total	MW-13A	02/22/2017	ND	0.002	mg/L		
Copper, total	MW-13A	05/24/2017	ND	0.002	mg/L		
Copper, total	MW-13A	08/30/2017	ND	0.002	mg/L		
Copper, total	MW-13A	11/13/2017	ND	0.002	mg/L		
Copper, total	MW-13A	02/20/2018	ND	0.002	mg/L		
Copper, total	MW-13A	05/15/2018	ND	0.002	mg/L		
Copper, total	MW-13A	08/21/2018	ND	0.002	mg/L		
Copper, total	MW-13A	11/12/2018	ND	0.002	mg/L		
Copper, total	MW-13A	11/11/2019	ND	0.002	mg/L		
Copper, total	MW-13A	11/19/2020	ND	0.002	mg/L		
Copper, total	MW-13A	11/16/2021	ND	0.002	mg/L		
Copper, total	MW-13A	11/17/2022	ND	0.002	mg/L		
Copper, total	MW-13A	11/08/2023	ND	0.002	mg/L		
Copper, total	MW-13A	11/14/2024	ND	0.002	mg/L		
Copper, total	MW-13B	12/03/2013	ND	0.002	mg/L		
Copper, total	MW-13B	03/04/2014	ND	0.002	mg/L		
Copper, total	MW-13B	06/02/2014	ND	0.002	mg/L		
Copper, total	MW-13B	09/22/2014	ND	0.002	mg/L		
Copper, total	MW-13B	11/17/2014	ND	0.002	mg/L		
Copper, total	MW-13B	02/23/2015	ND	0.002	mg/L		
Copper, total	MW-13B	05/19/2015	ND	0.002	mg/L		
Copper, total	MW-13B	08/26/2015	ND	0.002	mg/L		
Copper, total	MW-13B	11/10/2015	ND	0.002	mg/L		
Copper, total	MW-13B	02/22/2016	ND	0.002	mg/L		
Copper, total	MW-13B	05/16/2016	ND	0.002	mg/L		
Copper, total	MW-13B	08/31/2016	ND	0.002	mg/L		
Copper, total	MW-13B	11/14/2016	ND	0.002	mg/L		
Copper, total	MW-13B	02/22/2017	ND	0.002	mg/L		
Copper, total	MW-13B	05/24/2017	ND	0.002	mg/L		
Copper, total	MW-13B	08/30/2017	ND	0.002	mg/L		
Copper, total	MW-13B	11/13/2017	ND	0.002	mg/L		
Copper, total	MW-13B	02/20/2018	ND	0.002	mg/L		
Copper, total	MW-13B	05/15/2018	ND	0.002	mg/L		
Copper, total	MW-13B	08/21/2018	ND	0.002	mg/L		
Copper, total	MW-13B	11/12/2018	ND	0.002	mg/L		
Copper, total	MW-13B	11/11/2019	ND	0.002	mg/L		
Copper, total	MW-13B	11/19/2020	ND	0.002	mg/L		
Copper, total	MW-13B	11/16/2021	ND	0.002	mg/L		
Copper, total	MW-13B	11/17/2022	ND	0.002	mg/L		
Copper, total	MW-13B	11/08/2023	ND	0.002	mg/L		
Copper, total	MW-13B	11/14/2024	ND	0.002	mg/L		
Copper, total	MW-16	09/05/2013	ND	0.002	mg/L		
Copper, total	MW-16	12/16/2013	ND	0.002	mg/L		
Copper, total	MW-16	03/05/2014	ND	0.002	mg/L		
Copper, total	MW-16	06/02/2014	ND	0.002	mg/L		
Copper, total	MW-16	09/22/2014	ND	0.002	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Copper, total	MW-16	11/18/2014	ND	0.002	mg/L		
Copper, total	MW-16	02/23/2015	ND	0.002	mg/L		
Copper, total	MW-16	05/20/2015	ND	0.002	mg/L		
Copper, total	MW-16	08/26/2015	ND	0.002	mg/L		
Copper, total	MW-16	11/11/2015	ND	0.002	mg/L		
Copper, total	MW-16	02/24/2016	ND	0.002	mg/L		
Copper, total	MW-16	05/16/2016	ND	0.002	mg/L		
Copper, total	MW-16	08/31/2016	ND	0.002	mg/L		
Copper, total	MW-16	11/14/2016	ND	0.002	mg/L		
Copper, total	MW-16	02/22/2017	ND	0.002	mg/L		
Copper, total	MW-16	05/24/2017	ND	0.002	mg/L		
Copper, total	MW-16	08/30/2017	ND	0.002	mg/L		
Copper, total	MW-16	11/13/2017	ND	0.002	mg/L		
Copper, total	MW-16	02/20/2018	ND	0.002	mg/L		
Copper, total	MW-16	05/17/2018	ND	0.002	mg/L		
Copper, total	MW-16	08/22/2018	ND	0.002	mg/L		
Copper, total	MW-16	11/12/2018	ND	0.002	mg/L		
Copper, total	MW-16	11/12/2019	ND	0.002	mg/L		
Copper, total	MW-16	11/20/2020	ND	0.002	mg/L		
Copper, total	MW-16	11/16/2021	ND	0.002	mg/L		
Copper, total	MW-16	11/17/2022	ND	0.002	mg/L		
Copper, total	MW-16	11/08/2023	ND	0.002	mg/L		
Copper, total	MW-16	11/14/2024	ND	0.002	mg/L		
Copper, total	MW-35	09/05/2013	ND	0.002	mg/L		
Copper, total	MW-35	12/16/2013	ND	0.002	mg/L		
Copper, total	MW-35	03/04/2014	ND	0.002	mg/L		
Copper, total	MW-35	06/02/2014	ND	0.002	mg/L		
Copper, total	MW-35	09/22/2014	ND	0.002	mg/L		
Copper, total	MW-35	11/17/2014	ND	0.002	mg/L		
Copper, total	MW-35	02/25/2015	ND	0.002	mg/L		
Copper, total	MW-35	05/19/2015	ND	0.002	mg/L		
Copper, total	MW-35	08/26/2015	ND	0.002	mg/L		
Copper, total	MW-35	11/10/2015	ND	0.002	mg/L		
Copper, total	MW-35	02/22/2016	ND	0.002	mg/L		
Copper, total	MW-35	05/16/2016	ND	0.002	mg/L		
Copper, total	MW-35	08/31/2016	ND	0.002	mg/L		
Copper, total	MW-35	11/15/2016	ND	0.002	mg/L		
Copper, total	MW-35	02/22/2017	ND	0.002	mg/L		
Copper, total	MW-35	05/24/2017	ND	0.002	mg/L		
Copper, total	MW-35	08/30/2017	ND	0.002	mg/L		
Copper, total	MW-35	11/15/2017	ND	0.002	mg/L		
Copper, total	MW-35	02/20/2018	ND	0.002	mg/L		
Copper, total	MW-35	05/17/2018	ND	0.002	mg/L		
Copper, total	MW-35	08/22/2018	ND	0.002	mg/L		
Copper, total	MW-35	11/12/2018	ND	0.002	mg/L		
Copper, total	MW-35	11/12/2019	ND	0.002	mg/L		
Copper, total	MW-35	11/19/2020	ND	0.002	mg/L		
Copper, total	MW-35	11/16/2021	ND	0.002	mg/L		
Copper, total	MW-35	11/17/2022	ND	0.002	mg/L		
Copper, total	MW-35	11/08/2023	ND	0.002	mg/L		
Copper, total	MW-35	11/14/2024	ND	0.002	mg/L		
Iron, total	MW-13A	12/03/2013	ND	0.06	mg/L		
Iron, total	MW-13A	03/04/2014	ND	0.06	mg/L		
Iron, total	MW-13A	06/02/2014	ND	0.06	mg/L		
Iron, total	MW-13A	09/22/2014	ND	0.06	mg/L		
Iron, total	MW-13A	11/17/2014	ND	0.06	mg/L		
Iron, total	MW-13A	02/23/2015	ND	0.06	mg/L		
Iron, total	MW-13A	05/19/2015	ND	0.06	mg/L		
Iron, total	MW-13A	08/26/2015	ND	0.06	mg/L		
Iron, total	MW-13A	11/10/2015	ND	0.06	mg/L		
Iron, total	MW-13A	02/22/2016	ND	0.06	mg/L		
Iron, total	MW-13A	05/16/2016	ND	0.06	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Iron, total	MW-13A	08/31/2016	ND	0.06	mg/L		
Iron, total	MW-13A	11/14/2016		0.073	mg/L		
Iron, total	MW-13A	02/22/2017	ND	0.06	mg/L		
Iron, total	MW-13A	05/24/2017		0.087	mg/L		
Iron, total	MW-13A	08/30/2017	ND	0.06	mg/L		
Iron, total	MW-13A	11/13/2017	ND	0.06	mg/L		
Iron, total	MW-13A	02/20/2018	ND	0.06	mg/L		
Iron, total	MW-13A	05/15/2018	ND	0.06	mg/L		
Iron, total	MW-13A	08/21/2018	ND	0.06	mg/L		
Iron, total	MW-13A	11/12/2018	ND	0.06	mg/L		
Iron, total	MW-13A	11/11/2019	ND	0.06	mg/L		
Iron, total	MW-13A	11/19/2020	ND	0.06	mg/L		
Iron, total	MW-13A	11/16/2021	ND	0.06	mg/L		
Iron, total	MW-13A	11/17/2022	ND	0.06	mg/L		
Iron, total	MW-13A	11/08/2023	ND	0.06	mg/L		
Iron, total	MW-13A	11/14/2024	ND	0.06	mg/L		
Iron, total	MW-13B	12/03/2013	ND	0.06	mg/L		
Iron, total	MW-13B	03/04/2014	ND	0.06	mg/L		
Iron, total	MW-13B	06/02/2014	ND	0.06	mg/L		
Iron, total	MW-13B	09/22/2014	ND	0.06	mg/L		
Iron, total	MW-13B	11/17/2014	ND	0.06	mg/L		
Iron, total	MW-13B	02/23/2015	ND	0.06	mg/L		
Iron, total	MW-13B	05/19/2015	ND	0.06	mg/L		
Iron, total	MW-13B	08/26/2015	ND	0.06	mg/L		
Iron, total	MW-13B	11/10/2015	ND	0.06	mg/L		
Iron, total	MW-13B	02/22/2016	ND	0.06	mg/L		
Iron, total	MW-13B	05/16/2016	ND	0.06	mg/L		
Iron, total	MW-13B	08/31/2016	ND	0.06	mg/L		
Iron, total	MW-13B	11/14/2016	ND	0.06	mg/L		
Iron, total	MW-13B	02/22/2017	ND	0.06	mg/L		
Iron, total	MW-13B	05/24/2017	ND	0.06	mg/L		
Iron, total	MW-13B	08/30/2017	ND	0.06	mg/L		
Iron, total	MW-13B	11/13/2017	ND	0.06	mg/L		
Iron, total	MW-13B	02/20/2018	ND	0.06	mg/L		
Iron, total	MW-13B	05/15/2018	ND	0.06	mg/L		
Iron, total	MW-13B	08/21/2018	ND	0.06	mg/L		
Iron, total	MW-13B	11/12/2018	ND	0.06	mg/L		
Iron, total	MW-13B	11/11/2019	ND	0.06	mg/L		
Iron, total	MW-13B	11/19/2020	ND	0.06	mg/L		
Iron, total	MW-13B	11/16/2021	ND	0.06	mg/L		
Iron, total	MW-13B	11/17/2022	ND	0.06	mg/L		
Iron, total	MW-13B	11/08/2023	ND	0.06	mg/L		
Iron, total	MW-13B	11/14/2024	ND	0.06	mg/L		
Iron, total	MW-16	09/05/2013		0.12	mg/L		
Iron, total	MW-16	12/16/2013		0.068	mg/L		
Iron, total	MW-16	03/05/2014		0.2	mg/L		
Iron, total	MW-16	06/02/2014	ND	0.06	mg/L		
Iron, total	MW-16	09/22/2014	ND	0.06	mg/L		
Iron, total	MW-16	11/18/2014		0.18	mg/L		
Iron, total	MW-16	02/23/2015		0.31	mg/L		
Iron, total	MW-16	05/20/2015	ND	0.06	mg/L		
Iron, total	MW-16	08/26/2015	ND	0.06	mg/L		
Iron, total	MW-16	11/11/2015	ND	0.06	mg/L		
Iron, total	MW-16	02/24/2016	ND	0.06	mg/L		
Iron, total	MW-16	05/16/2016	ND	0.06	mg/L		
Iron, total	MW-16	08/31/2016	ND	0.06	mg/L		
Iron, total	MW-16	11/14/2016		0.12	mg/L		
Iron, total	MW-16	02/22/2017	ND	0.06	mg/L		
Iron, total	MW-16	05/24/2017		0.068	mg/L		
Iron, total	MW-16	08/30/2017	ND	0.06	mg/L		
Iron, total	MW-16	11/13/2017	ND	0.06	mg/L		
Iron, total	MW-16	02/20/2018		0.067	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Iron, total	MW-16	05/17/2018	ND	0.06	mg/L		
Iron, total	MW-16	08/22/2018	ND	0.06	mg/L		
Iron, total	MW-16	11/12/2018		0.22	mg/L		
Iron, total	MW-16	11/12/2019		0.11	mg/L		
Iron, total	MW-16	11/20/2020		0.88	mg/L		*
Iron, total	MW-16	11/16/2021		0.11	mg/L		
Iron, total	MW-16	11/17/2022	ND	0.06	mg/L		
Iron, total	MW-16	11/08/2023	ND	0.06	mg/L		
Iron, total	MW-16	11/14/2024	ND	0.06	mg/L		
Iron, total	MW-35	09/05/2013	ND	0.06	mg/L		
Iron, total	MW-35	12/16/2013	ND	0.06	mg/L		
Iron, total	MW-35	03/04/2014	ND	0.06	mg/L		
Iron, total	MW-35	06/02/2014	ND	0.06	mg/L		
Iron, total	MW-35	09/22/2014	ND	0.06	mg/L		
Iron, total	MW-35	11/17/2014	ND	0.06	mg/L		
Iron, total	MW-35	02/25/2015	ND	0.06	mg/L		
Iron, total	MW-35	05/19/2015	ND	0.06	mg/L		
Iron, total	MW-35	08/26/2015	ND	0.06	mg/L		
Iron, total	MW-35	11/10/2015	ND	0.06	mg/L		
Iron, total	MW-35	02/22/2016	ND	0.06	mg/L		
Iron, total	MW-35	05/16/2016	ND	0.06	mg/L		
Iron, total	MW-35	08/31/2016	ND	0.06	mg/L		
Iron, total	MW-35	11/15/2016	ND	0.06	mg/L		
Iron, total	MW-35	02/22/2017	ND	0.06	mg/L		
Iron, total	MW-35	05/24/2017	ND	0.06	mg/L		
Iron, total	MW-35	08/30/2017	ND	0.06	mg/L		
Iron, total	MW-35	11/15/2017	ND	0.06	mg/L		
Iron, total	MW-35	02/20/2018	ND	0.06	mg/L		
Iron, total	MW-35	05/17/2018	ND	0.06	mg/L		
Iron, total	MW-35	08/22/2018	ND	0.06	mg/L		
Iron, total	MW-35	11/12/2018	ND	0.06	mg/L		
Iron, total	MW-35	11/12/2019	ND	0.06	mg/L		
Iron, total	MW-35	11/19/2020	ND	0.06	mg/L		
Iron, total	MW-35	11/16/2021	ND	0.06	mg/L		
Iron, total	MW-35	11/17/2022	ND	0.06	mg/L		
Iron, total	MW-35	11/08/2023	ND	0.06	mg/L		
Iron, total	MW-35	11/14/2024	ND	0.06	mg/L		
Lead, total	MW-13A	12/03/2013	ND	0.001	mg/L		
Lead, total	MW-13A	03/04/2014	ND	0.001	mg/L		
Lead, total	MW-13A	06/02/2014	ND	0.001	mg/L		
Lead, total	MW-13A	09/22/2014	ND	0.001	mg/L		
Lead, total	MW-13A	11/17/2014	ND	0.001	mg/L		
Lead, total	MW-13A	02/23/2015	ND	0.001	mg/L		
Lead, total	MW-13A	05/19/2015	ND	0.001	mg/L		
Lead, total	MW-13A	08/26/2015	ND	0.001	mg/L		
Lead, total	MW-13A	11/10/2015	ND	0.001	mg/L		
Lead, total	MW-13A	02/22/2016	ND	0.001	mg/L		
Lead, total	MW-13A	05/16/2016	ND	0.001	mg/L		
Lead, total	MW-13A	08/31/2016	ND	0.001	mg/L		
Lead, total	MW-13A	11/14/2016	ND	0.001	mg/L		
Lead, total	MW-13A	02/22/2017	ND	0.001	mg/L		
Lead, total	MW-13A	05/24/2017	ND	0.001	mg/L		
Lead, total	MW-13A	08/30/2017	ND	0.001	mg/L		
Lead, total	MW-13A	11/13/2017	ND	0.001	mg/L		
Lead, total	MW-13A	02/20/2018	ND	0.001	mg/L		
Lead, total	MW-13A	05/15/2018	ND	0.001	mg/L		
Lead, total	MW-13A	08/21/2018	ND	0.001	mg/L		
Lead, total	MW-13A	11/12/2018	ND	0.001	mg/L		
Lead, total	MW-13A	11/11/2019	ND	0.001	mg/L		
Lead, total	MW-13A	11/19/2020	ND	0.001	mg/L		
Lead, total	MW-13A	11/16/2021	ND	0.001	mg/L		
Lead, total	MW-13A	11/17/2022	ND	0.001	mg/L		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Lead, total	MW-13A	11/08/2023	ND	0.001	mg/L		
Lead, total	MW-13A	11/14/2024	ND	0.001	mg/L		
Lead, total	MW-13B	12/03/2013	ND	0.001	mg/L		
Lead, total	MW-13B	03/04/2014	ND	0.001	mg/L		
Lead, total	MW-13B	06/02/2014	ND	0.001	mg/L		
Lead, total	MW-13B	09/22/2014	ND	0.001	mg/L		
Lead, total	MW-13B	11/17/2014	ND	0.001	mg/L		
Lead, total	MW-13B	02/23/2015	ND	0.001	mg/L		
Lead, total	MW-13B	05/19/2015	ND	0.001	mg/L		
Lead, total	MW-13B	08/26/2015	ND	0.001	mg/L		
Lead, total	MW-13B	11/10/2015	ND	0.001	mg/L		
Lead, total	MW-13B	02/22/2016	ND	0.001	mg/L		
Lead, total	MW-13B	05/16/2016	ND	0.001	mg/L		
Lead, total	MW-13B	08/31/2016	ND	0.001	mg/L		
Lead, total	MW-13B	11/14/2016	ND	0.001	mg/L		
Lead, total	MW-13B	02/22/2017	ND	0.001	mg/L		
Lead, total	MW-13B	05/24/2017	ND	0.001	mg/L		
Lead, total	MW-13B	08/30/2017	ND	0.001	mg/L		
Lead, total	MW-13B	11/13/2017	ND	0.001	mg/L		
Lead, total	MW-13B	02/20/2018	ND	0.001	mg/L		
Lead, total	MW-13B	05/15/2018	ND	0.001	mg/L		
Lead, total	MW-13B	08/21/2018	ND	0.001	mg/L		
Lead, total	MW-13B	11/12/2018	ND	0.001	mg/L		
Lead, total	MW-13B	11/11/2019	ND	0.001	mg/L		
Lead, total	MW-13B	11/19/2020	ND	0.001	mg/L		
Lead, total	MW-13B	11/16/2021	ND	0.001	mg/L		
Lead, total	MW-13B	11/17/2022	ND	0.001	mg/L		
Lead, total	MW-13B	11/08/2023	ND	0.001	mg/L		
Lead, total	MW-13B	11/14/2024	ND	0.001	mg/L		
Lead, total	MW-16	09/05/2013	ND	0.001	mg/L		
Lead, total	MW-16	12/16/2013	ND	0.001	mg/L		
Lead, total	MW-16	03/05/2014	ND	0.001	mg/L		
Lead, total	MW-16	06/02/2014	ND	0.001	mg/L		
Lead, total	MW-16	09/22/2014		0.0014	mg/L		
Lead, total	MW-16	11/18/2014	ND	0.001	mg/L		
Lead, total	MW-16	02/23/2015	ND	0.001	mg/L		
Lead, total	MW-16	05/20/2015	ND	0.001	mg/L		
Lead, total	MW-16	08/26/2015	ND	0.001	mg/L		
Lead, total	MW-16	11/11/2015	ND	0.001	mg/L		
Lead, total	MW-16	02/24/2016	ND	0.001	mg/L		
Lead, total	MW-16	05/16/2016	ND	0.001	mg/L		
Lead, total	MW-16	08/31/2016	ND	0.001	mg/L		
Lead, total	MW-16	11/14/2016	ND	0.001	mg/L		
Lead, total	MW-16	02/22/2017	ND	0.001	mg/L		
Lead, total	MW-16	05/24/2017	ND	0.001	mg/L		
Lead, total	MW-16	08/30/2017	ND	0.001	mg/L		
Lead, total	MW-16	11/13/2017	ND	0.001	mg/L		
Lead, total	MW-16	02/20/2018	ND	0.001	mg/L		
Lead, total	MW-16	05/17/2018	ND	0.001	mg/L		
Lead, total	MW-16	08/22/2018	ND	0.001	mg/L		
Lead, total	MW-16	11/12/2018	ND	0.001	mg/L		
Lead, total	MW-16	11/12/2019	ND	0.001	mg/L		
Lead, total	MW-16	11/20/2020	ND	0.001	mg/L		
Lead, total	MW-16	11/16/2021	ND	0.001	mg/L		
Lead, total	MW-16	11/17/2022	ND	0.001	mg/L		
Lead, total	MW-16	11/08/2023	ND	0.001	mg/L		
Lead, total	MW-16	11/14/2024	ND	0.001	mg/L		
Lead, total	MW-35	09/05/2013	ND	0.001	mg/L		
Lead, total	MW-35	12/16/2013	ND	0.001	mg/L		
Lead, total	MW-35	03/04/2014	ND	0.001	mg/L		
Lead, total	MW-35	06/02/2014	ND	0.001	mg/L		
Lead, total	MW-35	09/22/2014	ND	0.001	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Lead, total	MW-35	11/17/2014	ND	0.001	mg/L		
Lead, total	MW-35	02/25/2015	ND	0.001	mg/L		
Lead, total	MW-35	05/19/2015	ND	0.001	mg/L		
Lead, total	MW-35	08/26/2015	ND	0.001	mg/L		
Lead, total	MW-35	11/10/2015	ND	0.001	mg/L		
Lead, total	MW-35	02/22/2016	ND	0.001	mg/L		
Lead, total	MW-35	05/16/2016	ND	0.001	mg/L		
Lead, total	MW-35	08/31/2016	ND	0.001	mg/L		
Lead, total	MW-35	11/15/2016	ND	0.001	mg/L		
Lead, total	MW-35	02/22/2017	ND	0.001	mg/L		
Lead, total	MW-35	05/24/2017	ND	0.001	mg/L		
Lead, total	MW-35	08/30/2017	ND	0.001	mg/L		
Lead, total	MW-35	11/15/2017	ND	0.001	mg/L		
Lead, total	MW-35	02/20/2018	ND	0.001	mg/L		
Lead, total	MW-35	05/17/2018	ND	0.001	mg/L		
Lead, total	MW-35	08/22/2018	ND	0.001	mg/L		
Lead, total	MW-35	11/12/2018	ND	0.001	mg/L		
Lead, total	MW-35	11/12/2019	ND	0.001	mg/L		
Lead, total	MW-35	11/19/2020	ND	0.001	mg/L		
Lead, total	MW-35	11/16/2021	ND	0.001	mg/L		
Lead, total	MW-35	11/17/2022	ND	0.001	mg/L		
Lead, total	MW-35	11/08/2023	ND	0.001	mg/L		
Lead, total	MW-35	11/14/2024	ND	0.001	mg/L		
Magnesium, dissolved	MW-13A	03/22/2005		9.2	mg/L		
Magnesium, dissolved	MW-13A	06/15/2005		8.2	mg/L		
Magnesium, dissolved	MW-13A	09/27/2005		8.4	mg/L		
Magnesium, dissolved	MW-13A	12/15/2005		8.6	mg/L		
Magnesium, dissolved	MW-13A	03/28/2006		9.2	mg/L		
Magnesium, dissolved	MW-13A	06/21/2006		9.1	mg/L		
Magnesium, dissolved	MW-13A	09/26/2006		9.2	mg/L		
Magnesium, dissolved	MW-13A	12/13/2006		9.3	mg/L		
Magnesium, dissolved	MW-13A	03/27/2007		9.3	mg/L		
Magnesium, dissolved	MW-13A	06/19/2007		9	mg/L		
Magnesium, dissolved	MW-13A	09/19/2007		9.4	mg/L		
Magnesium, dissolved	MW-13A	12/19/2007		8.6	mg/L		
Magnesium, dissolved	MW-13A	03/25/2008		9.1	mg/L		
Magnesium, dissolved	MW-13A	06/18/2008		9.3	mg/L		
Magnesium, dissolved	MW-13A	09/17/2008		9.2	mg/L		
Magnesium, dissolved	MW-13A	12/17/2008		9.3	mg/L		
Magnesium, dissolved	MW-13A	03/24/2009		9.6	mg/L		
Magnesium, dissolved	MW-13A	06/17/2009		9.6	mg/L		
Magnesium, dissolved	MW-13A	09/10/2009		9.3	mg/L		
Magnesium, dissolved	MW-13A	12/03/2009		9.1	mg/L		
Magnesium, dissolved	MW-13A	03/25/2010		8.7	mg/L		
Magnesium, dissolved	MW-13A	06/23/2010		9.7	mg/L		
Magnesium, dissolved	MW-13A	09/23/2010		9.4	mg/L		
Magnesium, dissolved	MW-13A	12/08/2010		8.1	mg/L		
Magnesium, dissolved	MW-13A	03/30/2011		9.6	mg/L		
Magnesium, dissolved	MW-13A	06/06/2011		10	mg/L		
Magnesium, dissolved	MW-13A	09/27/2011		9.7	mg/L		
Magnesium, dissolved	MW-13A	12/14/2011		9.3	mg/L		
Magnesium, dissolved	MW-13A	03/21/2012		9.9	mg/L		
Magnesium, dissolved	MW-13A	06/08/2012		8.9	mg/L		
Magnesium, dissolved	MW-13A	09/26/2012		9.6	mg/L		
Magnesium, dissolved	MW-13A	12/03/2012		9.2	mg/L		
Magnesium, dissolved	MW-13A	03/11/2013		9.4	mg/L		
Magnesium, dissolved	MW-13A	06/05/2013		9.8	mg/L		
Magnesium, dissolved	MW-13A	12/03/2013		9.4	mg/L		
Magnesium, dissolved	MW-13A	03/04/2014		9.8	mg/L		
Magnesium, dissolved	MW-13A	06/02/2014		9.2	mg/L		
Magnesium, dissolved	MW-13A	09/22/2014		8.7	mg/L		
Magnesium, dissolved	MW-13A	11/17/2014		9.3	mg/L		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Magnesium, dissolved	MW-13A	02/23/2015		9.2	mg/L		
Magnesium, dissolved	MW-13A	05/19/2015		9.5	mg/L		
Magnesium, dissolved	MW-13A	08/26/2015		9.3	mg/L		
Magnesium, dissolved	MW-13A	11/10/2015		9.1	mg/L		
Magnesium, dissolved	MW-13A	02/22/2016		9.7	mg/L		
Magnesium, dissolved	MW-13A	05/16/2016		9.5	mg/L		
Magnesium, dissolved	MW-13A	08/31/2016		8.6	mg/L		
Magnesium, dissolved	MW-13A	11/14/2016		10	mg/L		
Magnesium, dissolved	MW-13A	02/22/2017		10	mg/L		
Magnesium, dissolved	MW-13A	05/24/2017		8.9	mg/L		
Magnesium, dissolved	MW-13A	08/30/2017		8.8	mg/L		
Magnesium, dissolved	MW-13A	11/13/2017		8.6	mg/L		
Magnesium, dissolved	MW-13A	02/20/2018		8.2	mg/L		
Magnesium, dissolved	MW-13A	05/15/2018		8.5	mg/L		
Magnesium, dissolved	MW-13A	08/21/2018		8.3	mg/L		
Magnesium, dissolved	MW-13A	11/12/2018		8.3	mg/L		
Magnesium, dissolved	MW-13A	11/11/2019		8.6	mg/L		
Magnesium, dissolved	MW-13A	11/19/2020		8.7	mg/L		
Magnesium, dissolved	MW-13A	11/16/2021		8.8	mg/L		
Magnesium, dissolved	MW-13A	11/17/2022		8.9	mg/L		
Magnesium, dissolved	MW-13A	11/08/2023		9.1	mg/L		
Magnesium, dissolved	MW-13A	11/14/2024		9.6	mg/L		
Magnesium, dissolved	MW-13B	03/22/2005		8.6	mg/L		
Magnesium, dissolved	MW-13B	06/15/2005		8	mg/L		
Magnesium, dissolved	MW-13B	09/27/2005		8.7	mg/L		
Magnesium, dissolved	MW-13B	12/15/2005		8	mg/L		
Magnesium, dissolved	MW-13B	03/29/2006		8.1	mg/L		
Magnesium, dissolved	MW-13B	06/21/2006		8.3	mg/L		
Magnesium, dissolved	MW-13B	09/26/2006		8.5	mg/L		
Magnesium, dissolved	MW-13B	12/13/2006		8.7	mg/L		
Magnesium, dissolved	MW-13B	03/27/2007		8.4	mg/L		
Magnesium, dissolved	MW-13B	06/19/2007		7.9	mg/L		
Magnesium, dissolved	MW-13B	09/18/2007		8.7	mg/L		
Magnesium, dissolved	MW-13B	12/19/2007		7.6	mg/L		
Magnesium, dissolved	MW-13B	03/25/2008		8	mg/L		
Magnesium, dissolved	MW-13B	06/18/2008		8.2	mg/L		
Magnesium, dissolved	MW-13B	09/17/2008		8.3	mg/L		
Magnesium, dissolved	MW-13B	12/16/2008		8.3	mg/L		
Magnesium, dissolved	MW-13B	03/24/2009		8.5	mg/L		
Magnesium, dissolved	MW-13B	06/17/2009		8.5	mg/L		
Magnesium, dissolved	MW-13B	09/10/2009		8.3	mg/L		
Magnesium, dissolved	MW-13B	12/03/2009		8	mg/L		
Magnesium, dissolved	MW-13B	03/25/2010		8.1	mg/L		
Magnesium, dissolved	MW-13B	06/23/2010		8.7	mg/L		
Magnesium, dissolved	MW-13B	09/23/2010		8.3	mg/L		
Magnesium, dissolved	MW-13B	12/08/2010		9.3	mg/L		
Magnesium, dissolved	MW-13B	03/30/2011		8.2	mg/L		
Magnesium, dissolved	MW-13B	06/06/2011		9	mg/L		
Magnesium, dissolved	MW-13B	09/27/2011		8.4	mg/L		
Magnesium, dissolved	MW-13B	12/14/2011		8.1	mg/L		
Magnesium, dissolved	MW-13B	03/21/2012		8.5	mg/L		
Magnesium, dissolved	MW-13B	06/08/2012		8.1	mg/L		
Magnesium, dissolved	MW-13B	09/26/2012		8.6	mg/L		
Magnesium, dissolved	MW-13B	12/03/2012		8.2	mg/L		
Magnesium, dissolved	MW-13B	03/11/2013		8.6	mg/L		
Magnesium, dissolved	MW-13B	06/05/2013		8.9	mg/L		
Magnesium, dissolved	MW-13B	12/03/2013		8.9	mg/L		
Magnesium, dissolved	MW-13B	03/04/2014		8.7	mg/L		
Magnesium, dissolved	MW-13B	06/02/2014		8.3	mg/L		
Magnesium, dissolved	MW-13B	09/22/2014		7.7	mg/L		
Magnesium, dissolved	MW-13B	11/17/2014		8.7	mg/L		
Magnesium, dissolved	MW-13B	02/23/2015		8.6	mg/L		

* = outlier for that well/constituent
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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Magnesium, dissolved	MW-13B	05/19/2015		8.9	mg/L		
Magnesium, dissolved	MW-13B	08/26/2015		8.8	mg/L		
Magnesium, dissolved	MW-13B	11/10/2015		8.6	mg/L		
Magnesium, dissolved	MW-13B	02/22/2016		9.1	mg/L		
Magnesium, dissolved	MW-13B	05/16/2016		8.6	mg/L		
Magnesium, dissolved	MW-13B	08/31/2016		8.1	mg/L		
Magnesium, dissolved	MW-13B	11/14/2016		9.3	mg/L		
Magnesium, dissolved	MW-13B	02/22/2017		9.3	mg/L		
Magnesium, dissolved	MW-13B	05/24/2017		8.6	mg/L		
Magnesium, dissolved	MW-13B	08/30/2017		8.5	mg/L		
Magnesium, dissolved	MW-13B	11/13/2017		8.3	mg/L		
Magnesium, dissolved	MW-13B	02/20/2018		8.2	mg/L		
Magnesium, dissolved	MW-13B	05/15/2018		7.8	mg/L		
Magnesium, dissolved	MW-13B	08/21/2018		8.6	mg/L		
Magnesium, dissolved	MW-13B	11/12/2018		8.2	mg/L		
Magnesium, dissolved	MW-13B	11/11/2019		8.3	mg/L		
Magnesium, dissolved	MW-13B	11/19/2020		8	mg/L		
Magnesium, dissolved	MW-13B	11/16/2021		7.7	mg/L		
Magnesium, dissolved	MW-13B	11/17/2022		8.6	mg/L		
Magnesium, dissolved	MW-13B	11/08/2023		8	mg/L		
Magnesium, dissolved	MW-13B	11/14/2024		8.9	mg/L		
Magnesium, dissolved	MW-16	03/24/2009		7.2	mg/L		
Magnesium, dissolved	MW-16	06/16/2009		5.9	mg/L		
Magnesium, dissolved	MW-16	09/09/2009		6.9	mg/L		
Magnesium, dissolved	MW-16	12/03/2009		8	mg/L		
Magnesium, dissolved	MW-16	03/25/2010		5.1	mg/L		
Magnesium, dissolved	MW-16	06/24/2010		6.9	mg/L		
Magnesium, dissolved	MW-16	09/24/2010		7.4	mg/L		
Magnesium, dissolved	MW-16	12/09/2010		8.3	mg/L		
Magnesium, dissolved	MW-16	03/30/2011		5.8	mg/L		
Magnesium, dissolved	MW-16	06/07/2011		5.6	mg/L		
Magnesium, dissolved	MW-16	09/27/2011		6.6	mg/L		
Magnesium, dissolved	MW-16	12/13/2011		6.2	mg/L		
Magnesium, dissolved	MW-16	03/21/2012		5.5	mg/L		
Magnesium, dissolved	MW-16	06/08/2012		5	mg/L		
Magnesium, dissolved	MW-16	09/27/2012		6.4	mg/L		
Magnesium, dissolved	MW-16	12/04/2012		6.6	mg/L		
Magnesium, dissolved	MW-16	03/12/2013		5.6	mg/L		
Magnesium, dissolved	MW-16	06/04/2013		5.8	mg/L		
Magnesium, dissolved	MW-16	09/05/2013		6	mg/L		
Magnesium, dissolved	MW-16	12/16/2013		5.9	mg/L		
Magnesium, dissolved	MW-16	03/05/2014		6.6	mg/L		
Magnesium, dissolved	MW-16	06/02/2014		5	mg/L		
Magnesium, dissolved	MW-16	09/22/2014		5.5	mg/L		
Magnesium, dissolved	MW-16	11/18/2014		6.4	mg/L		
Magnesium, dissolved	MW-16	02/23/2015		5.7	mg/L		
Magnesium, dissolved	MW-16	05/20/2015		5.7	mg/L		
Magnesium, dissolved	MW-16	08/26/2015		5.9	mg/L		
Magnesium, dissolved	MW-16	11/11/2015		6.7	mg/L		
Magnesium, dissolved	MW-16	02/24/2016		4.5	mg/L		
Magnesium, dissolved	MW-16	05/16/2016		5	mg/L		
Magnesium, dissolved	MW-16	08/31/2016		5.4	mg/L		
Magnesium, dissolved	MW-16	11/14/2016		5.9	mg/L		
Magnesium, dissolved	MW-16	02/22/2017		5	mg/L		
Magnesium, dissolved	MW-16	05/24/2017		4.2	mg/L		
Magnesium, dissolved	MW-16	08/30/2017		4.9	mg/L		
Magnesium, dissolved	MW-16	11/13/2017		4.8	mg/L		
Magnesium, dissolved	MW-16	02/20/2018		4.3	mg/L		
Magnesium, dissolved	MW-16	05/17/2018		4.3	mg/L		
Magnesium, dissolved	MW-16	08/22/2018		4.6	mg/L		
Magnesium, dissolved	MW-16	11/12/2018		5.2	mg/L		
Magnesium, dissolved	MW-16	11/12/2019		6.9	mg/L		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Magnesium, dissolved	MW-16	11/20/2020		7.4	mg/L		
Magnesium, dissolved	MW-16	11/16/2021		6.8	mg/L		
Magnesium, dissolved	MW-16	11/17/2022		5.6	mg/L		
Magnesium, dissolved	MW-16	11/08/2023		5.9	mg/L		
Magnesium, dissolved	MW-16	11/14/2024		7.1	mg/L		
Magnesium, dissolved	MW-35	03/22/2005		8.6	mg/L		
Magnesium, dissolved	MW-35	06/14/2005		8.1	mg/L		
Magnesium, dissolved	MW-35	09/27/2005		9.2	mg/L		
Magnesium, dissolved	MW-35	12/15/2005		8	mg/L		
Magnesium, dissolved	MW-35	03/28/2006		8.3	mg/L		
Magnesium, dissolved	MW-35	06/21/2006		8.4	mg/L		
Magnesium, dissolved	MW-35	09/26/2006		8.2	mg/L		
Magnesium, dissolved	MW-35	12/12/2006		8.8	mg/L		
Magnesium, dissolved	MW-35	03/27/2007		8.6	mg/L		
Magnesium, dissolved	MW-35	06/20/2007		8.4	mg/L		
Magnesium, dissolved	MW-35	09/18/2007		9.1	mg/L		
Magnesium, dissolved	MW-35	12/20/2007		8.1	mg/L		
Magnesium, dissolved	MW-35	03/25/2008		8.2	mg/L		
Magnesium, dissolved	MW-35	06/18/2008		8.1	mg/L		
Magnesium, dissolved	MW-35	09/18/2008		8.1	mg/L		
Magnesium, dissolved	MW-35	12/19/2008		8.1	mg/L		
Magnesium, dissolved	MW-35	03/24/2009		8.7	mg/L		
Magnesium, dissolved	MW-35	06/16/2009		8.1	mg/L		
Magnesium, dissolved	MW-35	09/10/2009		8.1	mg/L		
Magnesium, dissolved	MW-35	12/03/2009		8.3	mg/L		
Magnesium, dissolved	MW-35	03/25/2010		7.9	mg/L		
Magnesium, dissolved	MW-35	06/23/2010		8.8	mg/L		
Magnesium, dissolved	MW-35	09/23/2010		8.7	mg/L		
Magnesium, dissolved	MW-35	12/09/2010		9.3	mg/L		
Magnesium, dissolved	MW-35	03/30/2011		8.8	mg/L		
Magnesium, dissolved	MW-35	06/06/2011		9	mg/L		
Magnesium, dissolved	MW-35	09/26/2011		8.7	mg/L		
Magnesium, dissolved	MW-35	12/13/2011		8.8	mg/L		
Magnesium, dissolved	MW-35	03/21/2012		9	mg/L		
Magnesium, dissolved	MW-35	06/06/2012		8.3	mg/L		
Magnesium, dissolved	MW-35	09/26/2012		8.9	mg/L		
Magnesium, dissolved	MW-35	12/04/2012		8.6	mg/L		
Magnesium, dissolved	MW-35	03/13/2013		9.2	mg/L		
Magnesium, dissolved	MW-35	06/06/2013		8.5	mg/L		
Magnesium, dissolved	MW-35	09/05/2013		8.1	mg/L		
Magnesium, dissolved	MW-35	12/16/2013		8.4	mg/L		
Magnesium, dissolved	MW-35	03/04/2014		9.2	mg/L		
Magnesium, dissolved	MW-35	06/02/2014		8.6	mg/L		
Magnesium, dissolved	MW-35	09/22/2014		8.2	mg/L		
Magnesium, dissolved	MW-35	11/17/2014		8.7	mg/L		
Magnesium, dissolved	MW-35	02/25/2015		9.3	mg/L		
Magnesium, dissolved	MW-35	05/19/2015		8.5	mg/L		
Magnesium, dissolved	MW-35	08/26/2015		9	mg/L		
Magnesium, dissolved	MW-35	11/10/2015		9.3	mg/L		
Magnesium, dissolved	MW-35	02/22/2016		9.3	mg/L		
Magnesium, dissolved	MW-35	05/16/2016		9	mg/L		
Magnesium, dissolved	MW-35	08/31/2016		8.1	mg/L		
Magnesium, dissolved	MW-35	11/15/2016		10	mg/L		
Magnesium, dissolved	MW-35	02/22/2017		9.9	mg/L		
Magnesium, dissolved	MW-35	05/24/2017		8.6	mg/L		
Magnesium, dissolved	MW-35	08/30/2017		8.9	mg/L		
Magnesium, dissolved	MW-35	11/15/2017		8.5	mg/L		
Magnesium, dissolved	MW-35	02/20/2018		8.2	mg/L		
Magnesium, dissolved	MW-35	05/17/2018		8.4	mg/L		
Magnesium, dissolved	MW-35	08/22/2018		8.6	mg/L		
Magnesium, dissolved	MW-35	11/12/2018		8.6	mg/L		
Magnesium, dissolved	MW-35	11/12/2019		9	mg/L		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Magnesium, dissolved	MW-35	11/19/2020		8.6	mg/L		
Magnesium, dissolved	MW-35	11/16/2021		8.9	mg/L		
Magnesium, dissolved	MW-35	11/17/2022		8.7	mg/L		
Magnesium, dissolved	MW-35	11/08/2023		8.9	mg/L		
Magnesium, dissolved	MW-35	11/14/2024		9.4	mg/L		
Manganese, total	MW-13A	12/03/2013	ND	0.001	mg/L		
Manganese, total	MW-13A	03/04/2014	ND	0.001	mg/L		
Manganese, total	MW-13A	06/02/2014	ND	0.001	mg/L		
Manganese, total	MW-13A	09/22/2014	ND	0.001	mg/L		
Manganese, total	MW-13A	11/17/2014	ND	0.001	mg/L		
Manganese, total	MW-13A	02/23/2015	ND	0.001	mg/L		
Manganese, total	MW-13A	05/19/2015	ND	0.001	mg/L		
Manganese, total	MW-13A	08/26/2015	ND	0.001	mg/L		
Manganese, total	MW-13A	11/10/2015	ND	0.001	mg/L		
Manganese, total	MW-13A	02/22/2016	ND	0.001	mg/L		
Manganese, total	MW-13A	05/16/2016	ND	0.001	mg/L		
Manganese, total	MW-13A	08/31/2016	ND	0.001	mg/L		
Manganese, total	MW-13A	11/14/2016	ND	0.001	mg/L		
Manganese, total	MW-13A	02/22/2017	ND	0.001	mg/L		
Manganese, total	MW-13A	05/24/2017	ND	0.001	mg/L		
Manganese, total	MW-13A	08/30/2017	ND	0.001	mg/L		
Manganese, total	MW-13A	11/13/2017	ND	0.001	mg/L		
Manganese, total	MW-13A	02/20/2018	ND	0.001	mg/L		
Manganese, total	MW-13A	05/15/2018	ND	0.001	mg/L		
Manganese, total	MW-13A	08/21/2018	ND	0.001	mg/L		
Manganese, total	MW-13A	11/12/2018	ND	0.001	mg/L		
Manganese, total	MW-13A	11/11/2019	ND	0.001	mg/L		
Manganese, total	MW-13A	11/19/2020	ND	0.001	mg/L		
Manganese, total	MW-13A	11/16/2021	ND	0.001	mg/L		
Manganese, total	MW-13A	11/17/2022		0.02	mg/L		
Manganese, total	MW-13A	11/08/2023	ND	0.001	mg/L		
Manganese, total	MW-13A	11/14/2024	ND	0.001	mg/L		
Manganese, total	MW-13B	12/03/2013	ND	0.001	mg/L		
Manganese, total	MW-13B	03/04/2014	ND	0.001	mg/L		
Manganese, total	MW-13B	06/02/2014		0.002	mg/L		
Manganese, total	MW-13B	09/22/2014	ND	0.001	mg/L		
Manganese, total	MW-13B	11/17/2014	ND	0.001	mg/L		
Manganese, total	MW-13B	02/23/2015	ND	0.001	mg/L		
Manganese, total	MW-13B	05/19/2015	ND	0.001	mg/L		
Manganese, total	MW-13B	08/26/2015	ND	0.001	mg/L		
Manganese, total	MW-13B	11/10/2015	ND	0.001	mg/L		
Manganese, total	MW-13B	02/22/2016	ND	0.001	mg/L		
Manganese, total	MW-13B	05/16/2016	ND	0.001	mg/L		
Manganese, total	MW-13B	08/31/2016	ND	0.001	mg/L		
Manganese, total	MW-13B	11/14/2016	ND	0.001	mg/L		
Manganese, total	MW-13B	02/22/2017	ND	0.001	mg/L		
Manganese, total	MW-13B	05/24/2017	ND	0.001	mg/L		
Manganese, total	MW-13B	08/30/2017	ND	0.001	mg/L		
Manganese, total	MW-13B	11/13/2017	ND	0.001	mg/L		
Manganese, total	MW-13B	02/20/2018		0.0018	mg/L		
Manganese, total	MW-13B	05/15/2018	ND	0.001	mg/L		
Manganese, total	MW-13B	08/21/2018	ND	0.001	mg/L		
Manganese, total	MW-13B	11/12/2018	ND	0.001	mg/L		
Manganese, total	MW-13B	11/11/2019	ND	0.001	mg/L		
Manganese, total	MW-13B	11/19/2020	ND	0.001	mg/L		
Manganese, total	MW-13B	11/16/2021		0.0019	mg/L		
Manganese, total	MW-13B	11/17/2022	ND	0.001	mg/L		
Manganese, total	MW-13B	11/08/2023	ND	0.001	mg/L		
Manganese, total	MW-13B	11/14/2024	ND	0.001	mg/L		
Manganese, total	MW-16	09/05/2013		0.016	mg/L		
Manganese, total	MW-16	12/16/2013		0.013	mg/L		
Manganese, total	MW-16	03/05/2014		0.02	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Manganese, total	MW-16	06/02/2014		0.0049	mg/L		
Manganese, total	MW-16	09/22/2014		0.014	mg/L		
Manganese, total	MW-16	11/18/2014		0.032	mg/L		
Manganese, total	MW-16	02/23/2015		0.062	mg/L		
Manganese, total	MW-16	05/20/2015		0.0035	mg/L		
Manganese, total	MW-16	08/26/2015		0.0012	mg/L		
Manganese, total	MW-16	11/11/2015		0.0014	mg/L		
Manganese, total	MW-16	02/24/2016		0.0019	mg/L		
Manganese, total	MW-16	05/16/2016	ND	0.001	mg/L		
Manganese, total	MW-16	08/31/2016		0.0024	mg/L		
Manganese, total	MW-16	11/14/2016		0.017	mg/L		
Manganese, total	MW-16	02/22/2017		0.0045	mg/L		
Manganese, total	MW-16	05/24/2017		0.01	mg/L		
Manganese, total	MW-16	08/30/2017		0.0016	mg/L		
Manganese, total	MW-16	11/13/2017		0.0011	mg/L		
Manganese, total	MW-16	02/20/2018		0.013	mg/L		
Manganese, total	MW-16	05/17/2018		0.0033	mg/L		
Manganese, total	MW-16	08/22/2018		0.002	mg/L		
Manganese, total	MW-16	11/12/2018		0.025	mg/L		
Manganese, total	MW-16	11/12/2019		0.018	mg/L		
Manganese, total	MW-16	11/20/2020		0.11	mg/L		
Manganese, total	MW-16	11/16/2021		0.0063	mg/L		
Manganese, total	MW-16	11/17/2022		0.0016	mg/L		
Manganese, total	MW-16	11/08/2023		0.0036	mg/L		
Manganese, total	MW-16	11/14/2024	ND	0.001	mg/L		
Manganese, total	MW-35	09/05/2013	ND	0.001	mg/L		
Manganese, total	MW-35	12/16/2013	ND	0.001	mg/L		
Manganese, total	MW-35	03/04/2014	ND	0.001	mg/L		
Manganese, total	MW-35	06/02/2014	ND	0.001	mg/L		
Manganese, total	MW-35	09/22/2014	ND	0.001	mg/L		
Manganese, total	MW-35	11/17/2014	ND	0.001	mg/L		
Manganese, total	MW-35	02/25/2015	ND	0.001	mg/L		
Manganese, total	MW-35	05/19/2015		0.0014	mg/L		
Manganese, total	MW-35	08/26/2015	ND	0.001	mg/L		
Manganese, total	MW-35	11/10/2015	ND	0.001	mg/L		
Manganese, total	MW-35	02/22/2016	ND	0.001	mg/L		
Manganese, total	MW-35	05/16/2016	ND	0.001	mg/L		
Manganese, total	MW-35	08/31/2016	ND	0.001	mg/L		
Manganese, total	MW-35	11/15/2016	ND	0.001	mg/L		
Manganese, total	MW-35	02/22/2017	ND	0.001	mg/L		
Manganese, total	MW-35	05/24/2017	ND	0.001	mg/L		
Manganese, total	MW-35	08/30/2017	ND	0.001	mg/L		
Manganese, total	MW-35	11/15/2017	ND	0.001	mg/L		
Manganese, total	MW-35	02/20/2018	ND	0.001	mg/L		
Manganese, total	MW-35	05/17/2018	ND	0.001	mg/L		
Manganese, total	MW-35	08/22/2018	ND	0.001	mg/L		
Manganese, total	MW-35	11/12/2018	ND	0.001	mg/L		
Manganese, total	MW-35	11/12/2019	ND	0.001	mg/L		
Manganese, total	MW-35	11/19/2020	ND	0.001	mg/L		
Manganese, total	MW-35	11/16/2021	ND	0.001	mg/L		
Manganese, total	MW-35	11/17/2022	ND	0.001	mg/L		
Manganese, total	MW-35	11/08/2023	ND	0.001	mg/L		
Manganese, total	MW-35	11/14/2024	ND	0.001	mg/L		
Nickel, total	MW-13A	12/03/2013	ND	0.004	mg/L		
Nickel, total	MW-13A	03/04/2014	ND	0.004	mg/L		
Nickel, total	MW-13A	06/02/2014	ND	0.004	mg/L		
Nickel, total	MW-13A	09/22/2014	ND	0.004	mg/L		
Nickel, total	MW-13A	11/17/2014	ND	0.004	mg/L		
Nickel, total	MW-13A	02/23/2015	ND	0.004	mg/L		
Nickel, total	MW-13A	05/19/2015	ND	0.004	mg/L		
Nickel, total	MW-13A	08/26/2015	ND	0.004	mg/L		
Nickel, total	MW-13A	11/10/2015	ND	0.004	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Nickel, total	MW-13A	02/22/2016	ND	0.004	mg/L		
Nickel, total	MW-13A	05/16/2016	ND	0.004	mg/L		
Nickel, total	MW-13A	08/31/2016	ND	0.004	mg/L		
Nickel, total	MW-13A	11/14/2016	ND	0.004	mg/L		
Nickel, total	MW-13A	02/22/2017	ND	0.004	mg/L		
Nickel, total	MW-13A	05/24/2017	ND	0.004	mg/L		
Nickel, total	MW-13A	08/30/2017	ND	0.004	mg/L		
Nickel, total	MW-13A	11/13/2017	ND	0.004	mg/L		
Nickel, total	MW-13A	02/20/2018	ND	0.004	mg/L		
Nickel, total	MW-13A	05/15/2018	ND	0.004	mg/L		
Nickel, total	MW-13A	08/21/2018	ND	0.004	mg/L		
Nickel, total	MW-13A	11/12/2018	ND	0.004	mg/L		
Nickel, total	MW-13A	11/11/2019	ND	0.004	mg/L		
Nickel, total	MW-13A	11/19/2020	ND	0.004	mg/L		
Nickel, total	MW-13A	11/16/2021	ND	0.004	mg/L		
Nickel, total	MW-13A	11/17/2022	ND	0.004	mg/L		
Nickel, total	MW-13A	11/08/2023	ND	0.004	mg/L		
Nickel, total	MW-13A	11/14/2024	ND	0.004	mg/L		
Nickel, total	MW-13B	12/03/2013	ND	0.004	mg/L		
Nickel, total	MW-13B	03/04/2014	ND	0.004	mg/L		
Nickel, total	MW-13B	06/02/2014	ND	0.004	mg/L		
Nickel, total	MW-13B	09/22/2014	ND	0.004	mg/L		
Nickel, total	MW-13B	11/17/2014	ND	0.004	mg/L		
Nickel, total	MW-13B	02/23/2015	ND	0.004	mg/L		
Nickel, total	MW-13B	05/19/2015	ND	0.004	mg/L		
Nickel, total	MW-13B	08/26/2015	ND	0.004	mg/L		
Nickel, total	MW-13B	11/10/2015	ND	0.004	mg/L		
Nickel, total	MW-13B	02/22/2016	ND	0.004	mg/L		
Nickel, total	MW-13B	05/16/2016	ND	0.004	mg/L		
Nickel, total	MW-13B	08/31/2016	ND	0.004	mg/L		
Nickel, total	MW-13B	11/14/2016	ND	0.004	mg/L		
Nickel, total	MW-13B	02/22/2017	ND	0.004	mg/L		
Nickel, total	MW-13B	05/24/2017	ND	0.004	mg/L		
Nickel, total	MW-13B	08/30/2017	ND	0.004	mg/L		
Nickel, total	MW-13B	11/13/2017	ND	0.004	mg/L		
Nickel, total	MW-13B	02/20/2018	ND	0.004	mg/L		
Nickel, total	MW-13B	05/15/2018	ND	0.004	mg/L		
Nickel, total	MW-13B	08/21/2018	ND	0.004	mg/L		
Nickel, total	MW-13B	11/12/2018	ND	0.004	mg/L		
Nickel, total	MW-13B	11/11/2019	ND	0.004	mg/L		
Nickel, total	MW-13B	11/19/2020	ND	0.004	mg/L		
Nickel, total	MW-13B	11/16/2021	ND	0.004	mg/L		
Nickel, total	MW-13B	11/17/2022	ND	0.004	mg/L		
Nickel, total	MW-13B	11/08/2023	ND	0.004	mg/L		
Nickel, total	MW-13B	11/14/2024	ND	0.004	mg/L		
Nickel, total	MW-16	09/05/2013	ND	0.004	mg/L		
Nickel, total	MW-16	12/16/2013	ND	0.004	mg/L		
Nickel, total	MW-16	03/05/2014	ND	0.004	mg/L		
Nickel, total	MW-16	06/02/2014	ND	0.004	mg/L		
Nickel, total	MW-16	09/22/2014	ND	0.004	mg/L		
Nickel, total	MW-16	11/18/2014	ND	0.004	mg/L		
Nickel, total	MW-16	02/23/2015		0.0041	mg/L		
Nickel, total	MW-16	05/20/2015	ND	0.004	mg/L		
Nickel, total	MW-16	08/26/2015	ND	0.004	mg/L		
Nickel, total	MW-16	11/11/2015	ND	0.004	mg/L		
Nickel, total	MW-16	02/24/2016	ND	0.004	mg/L		
Nickel, total	MW-16	05/16/2016	ND	0.004	mg/L		
Nickel, total	MW-16	08/31/2016	ND	0.004	mg/L		
Nickel, total	MW-16	11/14/2016	ND	0.004	mg/L		
Nickel, total	MW-16	02/22/2017	ND	0.004	mg/L		
Nickel, total	MW-16	05/24/2017	ND	0.004	mg/L		
Nickel, total	MW-16	08/30/2017	ND	0.004	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Nickel, total	MW-16	11/13/2017	ND	0.004	mg/L		
Nickel, total	MW-16	02/20/2018	ND	0.004	mg/L		
Nickel, total	MW-16	05/17/2018	ND	0.004	mg/L		
Nickel, total	MW-16	08/22/2018	ND	0.004	mg/L		
Nickel, total	MW-16	11/12/2018	ND	0.004	mg/L		
Nickel, total	MW-16	11/12/2019	ND	0.004	mg/L		
Nickel, total	MW-16	11/20/2020		0.0055	mg/L		
Nickel, total	MW-16	11/16/2021	ND	0.004	mg/L		
Nickel, total	MW-16	11/17/2022	ND	0.004	mg/L		
Nickel, total	MW-16	11/08/2023	ND	0.004	mg/L		
Nickel, total	MW-16	11/14/2024	ND	0.004	mg/L		
Nickel, total	MW-35	09/05/2013	ND	0.004	mg/L		
Nickel, total	MW-35	12/16/2013	ND	0.004	mg/L		
Nickel, total	MW-35	03/04/2014	ND	0.004	mg/L		
Nickel, total	MW-35	06/02/2014	ND	0.004	mg/L		
Nickel, total	MW-35	09/22/2014	ND	0.004	mg/L		
Nickel, total	MW-35	11/17/2014	ND	0.004	mg/L		
Nickel, total	MW-35	02/25/2015	ND	0.004	mg/L		
Nickel, total	MW-35	05/19/2015	ND	0.004	mg/L		
Nickel, total	MW-35	08/26/2015	ND	0.004	mg/L		
Nickel, total	MW-35	11/10/2015	ND	0.004	mg/L		
Nickel, total	MW-35	02/22/2016	ND	0.004	mg/L		
Nickel, total	MW-35	05/16/2016	ND	0.004	mg/L		
Nickel, total	MW-35	08/31/2016	ND	0.004	mg/L		
Nickel, total	MW-35	11/15/2016	ND	0.004	mg/L		
Nickel, total	MW-35	02/22/2017	ND	0.004	mg/L		
Nickel, total	MW-35	05/24/2017	ND	0.004	mg/L		
Nickel, total	MW-35	08/30/2017	ND	0.004	mg/L		
Nickel, total	MW-35	11/15/2017	ND	0.004	mg/L		
Nickel, total	MW-35	02/20/2018	ND	0.004	mg/L		
Nickel, total	MW-35	05/17/2018	ND	0.004	mg/L		
Nickel, total	MW-35	08/22/2018	ND	0.004	mg/L		
Nickel, total	MW-35	11/12/2018	ND	0.004	mg/L		
Nickel, total	MW-35	11/12/2019	ND	0.004	mg/L		
Nickel, total	MW-35	11/19/2020	ND	0.004	mg/L		
Nickel, total	MW-35	11/16/2021	ND	0.004	mg/L		
Nickel, total	MW-35	11/17/2022	ND	0.004	mg/L		
Nickel, total	MW-35	11/08/2023	ND	0.004	mg/L		
Nickel, total	MW-35	11/14/2024	ND	0.004	mg/L		
Nitrate (as n)	MW-13A	03/22/2005		0.51	mg/L		
Nitrate (as n)	MW-13A	06/15/2005		0.44	mg/L		
Nitrate (as n)	MW-13A	09/27/2005		1.8	mg/L		*
Nitrate (as n)	MW-13A	12/15/2005		0.47	mg/L		
Nitrate (as n)	MW-13A	03/28/2006		0.44	mg/L		
Nitrate (as n)	MW-13A	06/21/2006		0.54	mg/L		
Nitrate (as n)	MW-13A	09/26/2006		0.44	mg/L		
Nitrate (as n)	MW-13A	12/13/2006		0.46	mg/L		
Nitrate (as n)	MW-13A	03/27/2007		0.42	mg/L		
Nitrate (as n)	MW-13A	06/19/2007		0.46	mg/L		
Nitrate (as n)	MW-13A	09/19/2007		0.46	mg/L		
Nitrate (as n)	MW-13A	12/19/2007		0.41	mg/L		
Nitrate (as n)	MW-13A	03/25/2008		0.49	mg/L		
Nitrate (as n)	MW-13A	06/18/2008		0.51	mg/L		
Nitrate (as n)	MW-13A	09/17/2008		0.44	mg/L		
Nitrate (as n)	MW-13A	12/17/2008		0.48	mg/L		
Nitrate (as n)	MW-13A	03/24/2009		0.47	mg/L		
Nitrate (as n)	MW-13A	06/17/2009		0.49	mg/L		
Nitrate (as n)	MW-13A	09/10/2009		0.45	mg/L		
Nitrate (as n)	MW-13A	12/03/2009		0.41	mg/L		
Nitrate (as n)	MW-13A	03/25/2010		0.48	mg/L		
Nitrate (as n)	MW-13A	06/23/2010		0.47	mg/L		
Nitrate (as n)	MW-13A	09/23/2010		0.51	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Nitrate (as n)	MW-13A	12/08/2010		0.49	mg/L		
Nitrate (as n)	MW-13A	03/30/2011		0.53	mg/L		
Nitrate (as n)	MW-13A	06/06/2011		0.46	mg/L		
Nitrate (as n)	MW-13A	09/27/2011		0.48	mg/L		
Nitrate (as n)	MW-13A	12/14/2011		0.48	mg/L		
Nitrate (as n)	MW-13A	03/21/2012		9.4	mg/L		*
Nitrate (as n)	MW-13A	06/08/2012		0.45	mg/L		
Nitrate (as n)	MW-13A	09/26/2012		0.42	mg/L		
Nitrate (as n)	MW-13A	12/03/2012		0.54	mg/L		
Nitrate (as n)	MW-13A	03/11/2013		0.46	mg/L		
Nitrate (as n)	MW-13A	06/05/2013		0.49	mg/L		
Nitrate (as n)	MW-13A	12/03/2013		0.47	mg/L		
Nitrate (as n)	MW-13A	03/04/2014		0.48	mg/L		
Nitrate (as n)	MW-13A	06/02/2014		0.48	mg/L		
Nitrate (as n)	MW-13A	09/22/2014		0.44	mg/L		
Nitrate (as n)	MW-13A	11/17/2014		0.46	mg/L		
Nitrate (as n)	MW-13A	02/23/2015		0.47	mg/L		
Nitrate (as n)	MW-13A	05/19/2015		0.45	mg/L		
Nitrate (as n)	MW-13A	08/26/2015		0.41	mg/L		
Nitrate (as n)	MW-13A	11/10/2015		0.44	mg/L		
Nitrate (as n)	MW-13A	02/22/2016		0.42	mg/L		
Nitrate (as n)	MW-13A	05/16/2016		0.45	mg/L		
Nitrate (as n)	MW-13A	08/31/2016		0.45	mg/L		
Nitrate (as n)	MW-13A	11/14/2016		0.48	mg/L		
Nitrate (as n)	MW-13A	05/24/2017		0.45	mg/L		
Nitrate (as n)	MW-13A	11/13/2017		0.42	mg/L		
Nitrate (as n)	MW-13A	02/20/2018		0.41	mg/L		
Nitrate (as n)	MW-13A	05/15/2018		0.48	mg/L		
Nitrate (as n)	MW-13A	08/21/2018		0.39	mg/L		
Nitrate (as n)	MW-13A	11/12/2018		0.38	mg/L		
Nitrate (as n)	MW-13A	11/11/2019		0.41	mg/L		
Nitrate (as n)	MW-13A	11/19/2020		0.42	mg/L		
Nitrate (as n)	MW-13A	11/16/2021		0.44	mg/L		
Nitrate (as n)	MW-13A	11/17/2022		0.48	mg/L		
Nitrate (as n)	MW-13A	11/08/2023		0.44	mg/L		
Nitrate (as n)	MW-13A	11/14/2024		0.55	mg/L		
Nitrate (as n)	MW-13B	03/22/2005		0.5	mg/L		
Nitrate (as n)	MW-13B	06/15/2005		0.74	mg/L		
Nitrate (as n)	MW-13B	09/27/2005		0.46	mg/L		
Nitrate (as n)	MW-13B	12/15/2005		0.49	mg/L		
Nitrate (as n)	MW-13B	03/29/2006		0.44	mg/L		
Nitrate (as n)	MW-13B	06/21/2006		0.56	mg/L		
Nitrate (as n)	MW-13B	09/26/2006		0.44	mg/L		
Nitrate (as n)	MW-13B	12/13/2006		0.4	mg/L		
Nitrate (as n)	MW-13B	03/27/2007		0.43	mg/L		
Nitrate (as n)	MW-13B	06/19/2007		0.48	mg/L		
Nitrate (as n)	MW-13B	09/18/2007		0.48	mg/L		
Nitrate (as n)	MW-13B	12/19/2007		0.89	mg/L		
Nitrate (as n)	MW-13B	03/25/2008		0.48	mg/L		
Nitrate (as n)	MW-13B	06/18/2008		0.95	mg/L		
Nitrate (as n)	MW-13B	09/17/2008		0.46	mg/L		
Nitrate (as n)	MW-13B	12/16/2008		0.53	mg/L		
Nitrate (as n)	MW-13B	03/24/2009		0.46	mg/L		
Nitrate (as n)	MW-13B	06/17/2009		0.49	mg/L		
Nitrate (as n)	MW-13B	09/10/2009		0.46	mg/L		
Nitrate (as n)	MW-13B	12/03/2009		0.4	mg/L		
Nitrate (as n)	MW-13B	03/25/2010		0.46	mg/L		
Nitrate (as n)	MW-13B	06/23/2010		0.45	mg/L		
Nitrate (as n)	MW-13B	09/23/2010		0.48	mg/L		
Nitrate (as n)	MW-13B	12/08/2010		0.5	mg/L		
Nitrate (as n)	MW-13B	03/30/2011		0.51	mg/L		
Nitrate (as n)	MW-13B	06/06/2011		0.43	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Nitrate (as n)	MW-13B	09/27/2011		0.46	mg/L		
Nitrate (as n)	MW-13B	12/14/2011		0.47	mg/L		
Nitrate (as n)	MW-13B	03/21/2012		9.7	mg/L		*
Nitrate (as n)	MW-13B	06/08/2012		0.45	mg/L		
Nitrate (as n)	MW-13B	09/26/2012		0.4	mg/L		
Nitrate (as n)	MW-13B	12/03/2012		0.42	mg/L		
Nitrate (as n)	MW-13B	03/11/2013		0.43	mg/L		
Nitrate (as n)	MW-13B	06/05/2013		0.49	mg/L		
Nitrate (as n)	MW-13B	12/03/2013		0.51	mg/L		
Nitrate (as n)	MW-13B	03/04/2014		0.45	mg/L		
Nitrate (as n)	MW-13B	06/02/2014		0.53	mg/L		
Nitrate (as n)	MW-13B	09/22/2014		0.45	mg/L		
Nitrate (as n)	MW-13B	11/17/2014		0.47	mg/L		
Nitrate (as n)	MW-13B	02/23/2015		0.45	mg/L		
Nitrate (as n)	MW-13B	05/19/2015		0.45	mg/L		
Nitrate (as n)	MW-13B	08/26/2015		0.44	mg/L		
Nitrate (as n)	MW-13B	11/10/2015		0.45	mg/L		
Nitrate (as n)	MW-13B	02/22/2016		0.43	mg/L		
Nitrate (as n)	MW-13B	05/16/2016		0.46	mg/L		
Nitrate (as n)	MW-13B	08/31/2016		0.45	mg/L		
Nitrate (as n)	MW-13B	11/14/2016		0.64	mg/L		
Nitrate (as n)	MW-13B	05/24/2017		0.48	mg/L		
Nitrate (as n)	MW-13B	11/13/2017		0.44	mg/L		
Nitrate (as n)	MW-13B	02/20/2018		0.43	mg/L		
Nitrate (as n)	MW-13B	05/15/2018		0.43	mg/L		
Nitrate (as n)	MW-13B	08/21/2018		0.45	mg/L		
Nitrate (as n)	MW-13B	11/12/2018		0.4	mg/L		
Nitrate (as n)	MW-13B	11/11/2019		0.42	mg/L		
Nitrate (as n)	MW-13B	11/19/2020		0.35	mg/L		
Nitrate (as n)	MW-13B	11/16/2021		0.41	mg/L		
Nitrate (as n)	MW-13B	11/17/2022		0.41	mg/L		
Nitrate (as n)	MW-13B	11/08/2023		0.36	mg/L		
Nitrate (as n)	MW-13B	11/14/2024		0.45	mg/L		
Nitrate (as n)	MW-16	03/24/2009		0.28	mg/L		
Nitrate (as n)	MW-16	06/16/2009		0.33	mg/L		
Nitrate (as n)	MW-16	09/09/2009		0.31	mg/L		
Nitrate (as n)	MW-16	12/03/2009		0.4	mg/L		
Nitrate (as n)	MW-16	03/25/2010		0.29	mg/L		
Nitrate (as n)	MW-16	06/24/2010		0.16	mg/L		
Nitrate (as n)	MW-16	09/24/2010		0.51	mg/L		
Nitrate (as n)	MW-16	12/09/2010		0.9	mg/L		
Nitrate (as n)	MW-16	03/30/2011		0.52	mg/L		
Nitrate (as n)	MW-16	06/07/2011		0.46	mg/L		
Nitrate (as n)	MW-16	09/27/2011		0.73	mg/L		
Nitrate (as n)	MW-16	12/13/2011		1.1	mg/L		
Nitrate (as n)	MW-16	03/21/2012		0.89	mg/L		*
Nitrate (as n)	MW-16	06/08/2012		1.4	mg/L		
Nitrate (as n)	MW-16	09/27/2012		0.96	mg/L		
Nitrate (as n)	MW-16	12/04/2012		0.86	mg/L		
Nitrate (as n)	MW-16	03/12/2013		1.6	mg/L		
Nitrate (as n)	MW-16	06/04/2013		1.5	mg/L		
Nitrate (as n)	MW-16	09/05/2013		0.72	mg/L		
Nitrate (as n)	MW-16	12/16/2013		0.75	mg/L		
Nitrate (as n)	MW-16	03/05/2014		0.55	mg/L		
Nitrate (as n)	MW-16	06/02/2014		1.2	mg/L		
Nitrate (as n)	MW-16	09/22/2014		0.36	mg/L		
Nitrate (as n)	MW-16	11/18/2014		0.28	mg/L		
Nitrate (as n)	MW-16	02/23/2015		0.26	mg/L		
Nitrate (as n)	MW-16	05/20/2015		0.55	mg/L		
Nitrate (as n)	MW-16	08/26/2015		0.38	mg/L		
Nitrate (as n)	MW-16	11/11/2015		0.19	mg/L		
Nitrate (as n)	MW-16	02/24/2016		0.5	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

Nitrate (as n)	MW-16	05/16/2016		0.69	mg/L		
Nitrate (as n)	MW-16	08/31/2016		0.27	mg/L		
Nitrate (as n)	MW-16	11/14/2016		0.24	mg/L		
Nitrate (as n)	MW-16	05/24/2017		0.55	mg/L		
Nitrate (as n)	MW-16	11/13/2017		0.28	mg/L		
Nitrate (as n)	MW-16	02/20/2018		0.32	mg/L		
Nitrate (as n)	MW-16	05/17/2018		0.62	mg/L		
Nitrate (as n)	MW-16	08/22/2018		0.17	mg/L		
Nitrate (as n)	MW-16	11/12/2018		0.28	mg/L		
Nitrate (as n)	MW-16	11/12/2019		0.1	mg/L		
Nitrate (as n)	MW-16	11/20/2020	ND	0.05	mg/L		
Nitrate (as n)	MW-16	11/16/2021		0.1	mg/L		
Nitrate (as n)	MW-16	11/17/2022	ND	0.05	mg/L		
Nitrate (as n)	MW-16	11/08/2023	ND	0.05	mg/L		
Nitrate (as n)	MW-16	11/14/2024		0.13	mg/L		
Nitrate (as n)	MW-35	03/22/2005		0.37	mg/L		
Nitrate (as n)	MW-35	06/14/2005		0.33	mg/L		
Nitrate (as n)	MW-35	09/27/2005		0.96	mg/L		
Nitrate (as n)	MW-35	12/15/2005		0.29	mg/L		
Nitrate (as n)	MW-35	03/28/2006		0.34	mg/L		
Nitrate (as n)	MW-35	06/21/2006		0.4	mg/L		
Nitrate (as n)	MW-35	09/26/2006		0.31	mg/L		
Nitrate (as n)	MW-35	12/12/2006		0.35	mg/L		
Nitrate (as n)	MW-35	03/27/2007		0.3	mg/L		
Nitrate (as n)	MW-35	06/20/2007		0.34	mg/L		
Nitrate (as n)	MW-35	09/18/2007		0.32	mg/L		
Nitrate (as n)	MW-35	12/20/2007		0.32	mg/L		
Nitrate (as n)	MW-35	03/25/2008		0.3	mg/L		
Nitrate (as n)	MW-35	06/18/2008		1	mg/L		
Nitrate (as n)	MW-35	09/18/2008		0.35	mg/L		
Nitrate (as n)	MW-35	12/19/2008		0.37	mg/L		
Nitrate (as n)	MW-35	03/24/2009		0.35	mg/L		
Nitrate (as n)	MW-35	06/16/2009		0.37	mg/L		
Nitrate (as n)	MW-35	09/10/2009		0.35	mg/L		
Nitrate (as n)	MW-35	12/03/2009		0.52	mg/L		
Nitrate (as n)	MW-35	03/25/2010		0.36	mg/L		
Nitrate (as n)	MW-35	06/23/2010		0.32	mg/L		
Nitrate (as n)	MW-35	09/23/2010		0.4	mg/L		
Nitrate (as n)	MW-35	12/09/2010		0.39	mg/L		
Nitrate (as n)	MW-35	03/30/2011		0.39	mg/L		
Nitrate (as n)	MW-35	06/06/2011		0.39	mg/L		
Nitrate (as n)	MW-35	09/26/2011		0.4	mg/L		
Nitrate (as n)	MW-35	12/13/2011		0.39	mg/L		
Nitrate (as n)	MW-35	03/21/2012		0.45	mg/L		*
Nitrate (as n)	MW-35	06/06/2012		0.43	mg/L		
Nitrate (as n)	MW-35	09/26/2012		0.37	mg/L		
Nitrate (as n)	MW-35	12/04/2012		0.42	mg/L		
Nitrate (as n)	MW-35	03/13/2013		0.47	mg/L		
Nitrate (as n)	MW-35	06/06/2013		0.45	mg/L		
Nitrate (as n)	MW-35	09/05/2013		0.42	mg/L		
Nitrate (as n)	MW-35	12/16/2013		0.4	mg/L		
Nitrate (as n)	MW-35	03/04/2014		0.42	mg/L		
Nitrate (as n)	MW-35	06/02/2014		0.42	mg/L		
Nitrate (as n)	MW-35	09/22/2014		0.42	mg/L		
Nitrate (as n)	MW-35	11/17/2014		0.42	mg/L		
Nitrate (as n)	MW-35	02/25/2015		0.41	mg/L		
Nitrate (as n)	MW-35	05/19/2015		0.4	mg/L		
Nitrate (as n)	MW-35	08/26/2015		0.4	mg/L		
Nitrate (as n)	MW-35	11/10/2015		0.41	mg/L		
Nitrate (as n)	MW-35	02/22/2016		0.41	mg/L		
Nitrate (as n)	MW-35	05/16/2016		0.44	mg/L		
Nitrate (as n)	MW-35	08/31/2016		0.43	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Nitrate (as n)	MW-35	11/15/2016		0.47	mg/L		
Nitrate (as n)	MW-35	05/24/2017		0.49	mg/L		
Nitrate (as n)	MW-35	11/15/2017		0.51	mg/L		
Nitrate (as n)	MW-35	02/20/2018		0.44	mg/L		
Nitrate (as n)	MW-35	05/17/2018		0.44	mg/L		
Nitrate (as n)	MW-35	08/22/2018		0.42	mg/L		
Nitrate (as n)	MW-35	11/12/2018		0.41	mg/L		
Nitrate (as n)	MW-35	11/12/2019		0.36	mg/L		
Nitrate (as n)	MW-35	11/19/2020		0.43	mg/L		
Nitrate (as n)	MW-35	11/16/2021		0.45	mg/L		
Nitrate (as n)	MW-35	11/17/2022		0.39	mg/L		
Nitrate (as n)	MW-35	11/08/2023		0.36	mg/L		
Nitrate (as n)	MW-35	11/14/2024		0.43	mg/L		
pH	MW-13A	03/22/2005		7.01	pH Units		
pH	MW-13A	06/15/2005		7.21	pH Units		
pH	MW-13A	09/27/2005		7.1	pH Units		
pH	MW-13A	12/15/2005		6.34	pH Units		
pH	MW-13A	03/28/2006		6.9	pH Units		
pH	MW-13A	06/21/2006		7.25	pH Units		
pH	MW-13A	09/26/2006		7.25	pH Units		
pH	MW-13A	12/13/2006		6.87	pH Units		
pH	MW-13A	03/27/2007		7.32	pH Units		
pH	MW-13A	09/19/2007		6.68	pH Units		
pH	MW-13A	12/19/2007		7.29	pH Units		
pH	MW-13A	03/25/2008		7.12	pH Units		
pH	MW-13A	06/18/2008		7.19	pH Units		
pH	MW-13A	09/17/2008		7	pH Units		
pH	MW-13A	12/17/2008		6.51	pH Units		
pH	MW-13A	03/24/2009		6.85	pH Units		
pH	MW-13A	06/17/2009		7.07	pH Units		
pH	MW-13A	12/03/2009		7.03	pH Units		
pH	MW-13A	03/25/2010		6.96	pH Units		
pH	MW-13A	06/23/2010		6.99	pH Units		
pH	MW-13A	09/23/2010		6.78	pH Units		
pH	MW-13A	12/08/2010		7.48	pH Units		
pH	MW-13A	03/30/2011		6.95	pH Units		
pH	MW-13A	06/06/2011		7.45	pH Units		
pH	MW-13A	09/27/2011		6.91	pH Units		
pH	MW-13A	12/14/2011		7.13	pH Units		
pH	MW-13A	03/21/2012		6.78	pH Units		
pH	MW-13A	06/08/2012		6.72	pH Units		
pH	MW-13A	09/26/2012		7.35	pH Units		
pH	MW-13A	12/03/2012		6.95	pH Units		
pH	MW-13A	03/11/2013		7.18	pH Units		
pH	MW-13A	06/05/2013		7.33	pH Units		
pH	MW-13A	12/03/2013		7.16	pH Units		
pH	MW-13A	03/04/2014		7.48	pH Units		
pH	MW-13A	06/02/2014		7.26	pH Units		
pH	MW-13A	09/22/2014		7.26	pH Units		
pH	MW-13A	11/17/2014		6.99	pH Units		
pH	MW-13A	05/19/2015		7.03	pH Units		
pH	MW-13A	08/26/2015		7.07	pH Units		
pH	MW-13A	11/10/2015		6.68	pH Units		
pH	MW-13A	02/22/2016		6.69	pH Units		
pH	MW-13A	05/16/2016		6.87	pH Units		
pH	MW-13A	08/31/2016		6.65	pH Units		
pH	MW-13A	11/14/2016		6.5	pH Units		
pH	MW-13A	02/22/2017		6.97	pH Units		
pH	MW-13A	05/24/2017		7.17	pH Units		
pH	MW-13A	08/30/2017		7	pH Units		
pH	MW-13A	11/13/2017		6.79	pH Units		
pH	MW-13A	02/20/2018		6.87	pH Units		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

pH	MW-13A	05/15/2018		6.91	pH Units		
pH	MW-13A	08/21/2018		6.88	pH Units		
pH	MW-13A	11/12/2018		7.02	pH Units		
pH	MW-13A	05/28/2019		6.7	pH Units		
pH	MW-13A	11/11/2019		6.72	pH Units		
pH	MW-13A	05/26/2020		7.28	pH Units		
pH	MW-13A	11/19/2020		6.99	pH Units		
pH	MW-13A	05/17/2021		7.09	pH Units		
pH	MW-13A	11/16/2021		7.17	pH Units		
pH	MW-13A	05/10/2022		7.17	pH Units		
pH	MW-13A	11/17/2022		6.93	pH Units		
pH	MW-13A	05/23/2023		6.94	pH Units		
pH	MW-13A	11/08/2023		6.8	pH Units		
pH	MW-13A	05/14/2024		6.85	pH Units		
pH	MW-13A	11/14/2024		6.57	pH Units		
pH	MW-13B	03/22/2005		7.49	pH Units		
pH	MW-13B	06/15/2005		7.81	pH Units		
pH	MW-13B	09/27/2005		7.73	pH Units		
pH	MW-13B	12/15/2005		6.93	pH Units		
pH	MW-13B	03/29/2006		7.45	pH Units		
pH	MW-13B	06/21/2006		7.76	pH Units		
pH	MW-13B	09/26/2006		7.78	pH Units		
pH	MW-13B	12/13/2006		7.32	pH Units		
pH	MW-13B	03/27/2007		7.76	pH Units		
pH	MW-13B	09/18/2007		7.48	pH Units		
pH	MW-13B	12/19/2007		7.85	pH Units		
pH	MW-13B	03/25/2008		7.78	pH Units		
pH	MW-13B	06/18/2008		7.74	pH Units		
pH	MW-13B	09/17/2008		7.57	pH Units		
pH	MW-13B	12/16/2008		7.23	pH Units		
pH	MW-13B	03/24/2009		7.37	pH Units		
pH	MW-13B	06/17/2009		7.56	pH Units		
pH	MW-13B	12/03/2009		6.93	pH Units		
pH	MW-13B	03/25/2010		7.49	pH Units		
pH	MW-13B	06/23/2010		7.27	pH Units		
pH	MW-13B	09/23/2010		7.11	pH Units		
pH	MW-13B	12/08/2010		7.05	pH Units		
pH	MW-13B	03/30/2011		7.51	pH Units		
pH	MW-13B	06/06/2011		7.58	pH Units		
pH	MW-13B	09/27/2011		7.08	pH Units		
pH	MW-13B	12/14/2011		7.53	pH Units		
pH	MW-13B	03/21/2012		7.09	pH Units		
pH	MW-13B	06/08/2012		7.15	pH Units		
pH	MW-13B	09/26/2012		7.32	pH Units		
pH	MW-13B	12/03/2012		7.32	pH Units		
pH	MW-13B	03/11/2013		7.42	pH Units		
pH	MW-13B	06/05/2013		7.27	pH Units		
pH	MW-13B	12/03/2013		7.34	pH Units		
pH	MW-13B	03/04/2014		7.4	pH Units		
pH	MW-13B	06/02/2014		7.35	pH Units		
pH	MW-13B	09/22/2014		7.68	pH Units		
pH	MW-13B	11/17/2014		7.08	pH Units		
pH	MW-13B	05/19/2015		7.65	pH Units		
pH	MW-13B	08/26/2015		7.59	pH Units		
pH	MW-13B	11/10/2015		7.28	pH Units		
pH	MW-13B	02/22/2016		7.01	pH Units		
pH	MW-13B	05/16/2016		7.31	pH Units		
pH	MW-13B	08/31/2016		7.23	pH Units		
pH	MW-13B	11/14/2016		7.17	pH Units		
pH	MW-13B	02/22/2017		7.65	pH Units		
pH	MW-13B	05/24/2017		7.76	pH Units		
pH	MW-13B	08/30/2017		7.41	pH Units		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

pH	MW-13B	11/13/2017		7.49	pH Units		
pH	MW-13B	02/20/2018		7.35	pH Units		
pH	MW-13B	05/15/2018		7.35	pH Units		
pH	MW-13B	08/21/2018		7.31	pH Units		
pH	MW-13B	11/12/2018		7.65	pH Units		
pH	MW-13B	05/28/2019		7.09	pH Units		
pH	MW-13B	11/11/2019		7.03	pH Units		
pH	MW-13B	05/26/2020		7.76	pH Units		
pH	MW-13B	11/19/2020		7.64	pH Units		
pH	MW-13B	05/17/2021		7.53	pH Units		
pH	MW-13B	11/16/2021		7.69	pH Units		
pH	MW-13B	05/10/2022		7.66	pH Units		
pH	MW-13B	11/17/2022		7.36	pH Units		
pH	MW-13B	05/23/2023		7.52	pH Units		
pH	MW-13B	11/08/2023		7.38	pH Units		
pH	MW-13B	05/14/2024		7.64	pH Units		
pH	MW-13B	11/14/2024		7.21	pH Units		
pH	MW-16	03/24/2009		6.27	pH Units		
pH	MW-16	06/16/2009		6.33	pH Units		
pH	MW-16	12/03/2009		6.27	pH Units		
pH	MW-16	03/25/2010		6.26	pH Units		
pH	MW-16	06/24/2010		6.04	pH Units		
pH	MW-16	09/24/2010		5.9	pH Units		
pH	MW-16	12/09/2010		6.17	pH Units		
pH	MW-16	03/30/2011		6.31	pH Units		
pH	MW-16	06/07/2011		6.15	pH Units		
pH	MW-16	09/27/2011		6.44	pH Units		
pH	MW-16	12/13/2011		6.3	pH Units		
pH	MW-16	03/21/2012		6.32	pH Units		
pH	MW-16	06/08/2012		6.25	pH Units		
pH	MW-16	09/27/2012		6.26	pH Units		
pH	MW-16	12/04/2012		6.22	pH Units		
pH	MW-16	03/12/2013		6.35	pH Units		
pH	MW-16	06/04/2013		6.45	pH Units		
pH	MW-16	09/05/2013		6.62	pH Units		
pH	MW-16	12/16/2013		6.32	pH Units		
pH	MW-16	03/05/2014		6.5	pH Units		
pH	MW-16	06/02/2014		6.61	pH Units		
pH	MW-16	09/22/2014		6.4	pH Units		
pH	MW-16	11/18/2014		6.38	pH Units		
pH	MW-16	02/23/2015		6.48	pH Units		
pH	MW-16	05/20/2015		6.51	pH Units		
pH	MW-16	08/26/2015		6.35	pH Units		
pH	MW-16	11/11/2015		6.13	pH Units		
pH	MW-16	02/24/2016		6.49	pH Units		
pH	MW-16	05/16/2016		6.11	pH Units		
pH	MW-16	08/31/2016		5.93	pH Units		
pH	MW-16	11/14/2016		5.89	pH Units		
pH	MW-16	02/22/2017		6.42	pH Units		
pH	MW-16	05/24/2017		6.35	pH Units		
pH	MW-16	08/30/2017		6.17	pH Units		
pH	MW-16	11/13/2017		6.35	pH Units		
pH	MW-16	02/20/2018		6.11	pH Units		
pH	MW-16	05/17/2018		6.27	pH Units		
pH	MW-16	08/22/2018		6.1	pH Units		
pH	MW-16	11/12/2018		6.34	pH Units		
pH	MW-16	05/29/2019		5.98	pH Units		
pH	MW-16	11/12/2019		6.17	pH Units		
pH	MW-16	05/27/2020		6.5	pH Units		
pH	MW-16	11/20/2020		6.14	pH Units		
pH	MW-16	05/17/2021		6.5	pH Units		
pH	MW-16	11/16/2021		6.33	pH Units		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

pH	MW-16	05/11/2022		6.39	pH Units		
pH	MW-16	11/17/2022		6.64	pH Units		
pH	MW-16	05/23/2023		6.21	pH Units		
pH	MW-16	11/08/2023		6.21	pH Units		
pH	MW-16	05/14/2024		6.32	pH Units		
pH	MW-16	11/14/2024		6.11	pH Units		
pH	MW-35	03/22/2005		7.06	pH Units		
pH	MW-35	06/14/2005		7.43	pH Units		
pH	MW-35	09/27/2005		7.39	pH Units		
pH	MW-35	12/15/2005		6.41	pH Units		
pH	MW-35	03/28/2006		7.1	pH Units		
pH	MW-35	06/21/2006		7.46	pH Units		
pH	MW-35	09/26/2006		7.5	pH Units		
pH	MW-35	12/12/2006		6.99	pH Units		
pH	MW-35	03/27/2007		7.51	pH Units		
pH	MW-35	09/18/2007		6.97	pH Units		
pH	MW-35	12/20/2007		7.25	pH Units		
pH	MW-35	03/25/2008		7.4	pH Units		
pH	MW-35	06/18/2008		7.44	pH Units		
pH	MW-35	09/18/2008		7.42	pH Units		
pH	MW-35	12/19/2008		7.19	pH Units		
pH	MW-35	03/24/2009		7.21	pH Units		
pH	MW-35	06/16/2009		7.15	pH Units		
pH	MW-35	12/03/2009		7.22	pH Units		
pH	MW-35	03/25/2010		7.24	pH Units		
pH	MW-35	06/23/2010		7.37	pH Units		
pH	MW-35	09/23/2010		6.85	pH Units		
pH	MW-35	12/09/2010		7.39	pH Units		
pH	MW-35	03/30/2011		7.37	pH Units		
pH	MW-35	06/06/2011		7.23	pH Units		
pH	MW-35	09/26/2011		6.86	pH Units		
pH	MW-35	12/13/2011		7	pH Units		
pH	MW-35	03/21/2012		7.02	pH Units		
pH	MW-35	06/06/2012		6.98	pH Units		
pH	MW-35	09/26/2012		7.11	pH Units		
pH	MW-35	12/04/2012		7.16	pH Units		
pH	MW-35	03/13/2013		7.06	pH Units		
pH	MW-35	06/06/2013		7.37	pH Units		
pH	MW-35	09/05/2013		7.1	pH Units		
pH	MW-35	12/16/2013		7.15	pH Units		
pH	MW-35	03/04/2014		7.53	pH Units		
pH	MW-35	06/02/2014		7.17	pH Units		
pH	MW-35	09/22/2014		6.62	pH Units		
pH	MW-35	11/17/2014		7.48	pH Units		
pH	MW-35	02/25/2015		7.77	pH Units		
pH	MW-35	05/19/2015		6.72	pH Units		
pH	MW-35	08/26/2015		7.25	pH Units		
pH	MW-35	11/10/2015		6.92	pH Units		
pH	MW-35	02/22/2016		6.58	pH Units		
pH	MW-35	05/16/2016		6.95	pH Units		
pH	MW-35	08/31/2016		7.09	pH Units		
pH	MW-35	11/15/2016		6.61	pH Units		
pH	MW-35	02/22/2017		7.38	pH Units		
pH	MW-35	05/24/2017		7.23	pH Units		
pH	MW-35	08/30/2017		7.29	pH Units		
pH	MW-35	11/15/2017		6.98	pH Units		
pH	MW-35	02/20/2018		6.93	pH Units		
pH	MW-35	05/17/2018		6.95	pH Units		
pH	MW-35	08/22/2018		7.06	pH Units		
pH	MW-35	11/12/2018		7.4	pH Units		
pH	MW-35	05/29/2019		6.77	pH Units		
pH	MW-35	11/12/2019		6.61	pH Units		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

pH	MW-35	05/27/2020		7.49	pH Units		
pH	MW-35	11/19/2020		7.2	pH Units		
pH	MW-35	05/17/2021		7.55	pH Units		
pH	MW-35	11/16/2021		7.41	pH Units		
pH	MW-35	05/10/2022		7.45	pH Units		
pH	MW-35	11/17/2022		7.49	pH Units		
pH	MW-35	05/23/2023		7.2	pH Units		
pH	MW-35	11/08/2023		7.19	pH Units		
pH	MW-35	05/14/2024		7.2	pH Units		
pH	MW-35	11/14/2024		7.03	pH Units		
Potassium, dissolved	MW-13A	03/22/2005		0.57	mg/L		
Potassium, dissolved	MW-13A	06/15/2005		0.52	mg/L		
Potassium, dissolved	MW-13A	09/27/2005		0.48	mg/L		
Potassium, dissolved	MW-13A	12/15/2005		0.5	mg/L		
Potassium, dissolved	MW-13A	03/28/2006	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/21/2006	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/26/2006	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/13/2006	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/27/2007	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/19/2007	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/19/2007	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/19/2007	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/25/2008	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/18/2008	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/17/2008	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/17/2008	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/24/2009	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/17/2009	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/10/2009	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/03/2009	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/25/2010	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/23/2010	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/23/2010	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/08/2010	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/30/2011	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/06/2011	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/27/2011	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/14/2011	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/21/2012	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/08/2012	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/26/2012	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/03/2012	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/11/2013	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/05/2013	ND	1	mg/L		
Potassium, dissolved	MW-13A	12/03/2013	ND	1	mg/L		
Potassium, dissolved	MW-13A	03/04/2014	ND	1	mg/L		
Potassium, dissolved	MW-13A	06/02/2014	ND	1	mg/L		
Potassium, dissolved	MW-13A	09/22/2014	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/17/2014	ND	1	mg/L		
Potassium, dissolved	MW-13A	02/23/2015	ND	1	mg/L		
Potassium, dissolved	MW-13A	05/19/2015	ND	1	mg/L		
Potassium, dissolved	MW-13A	08/26/2015	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/10/2015	ND	1	mg/L		
Potassium, dissolved	MW-13A	02/22/2016	ND	1	mg/L		
Potassium, dissolved	MW-13A	05/16/2016	ND	1	mg/L		
Potassium, dissolved	MW-13A	08/31/2016	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/14/2016	ND	1	mg/L		
Potassium, dissolved	MW-13A	02/22/2017	ND	1	mg/L		
Potassium, dissolved	MW-13A	05/24/2017		1.4	mg/L		
Potassium, dissolved	MW-13A	08/30/2017	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/13/2017	ND	1	mg/L		
Potassium, dissolved	MW-13A	02/20/2018	ND	1	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Potassium, dissolved	MW-13A	05/15/2018	ND	1	mg/L		
Potassium, dissolved	MW-13A	08/21/2018	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/12/2018	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/11/2019	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/19/2020	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/16/2021	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/17/2022	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/08/2023	ND	1	mg/L		
Potassium, dissolved	MW-13A	11/14/2024	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/22/2005		0.6	mg/L		
Potassium, dissolved	MW-13B	06/15/2005		0.55	mg/L		
Potassium, dissolved	MW-13B	09/27/2005		0.55	mg/L		
Potassium, dissolved	MW-13B	12/15/2005		0.52	mg/L		
Potassium, dissolved	MW-13B	03/29/2006	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/21/2006	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/26/2006	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/13/2006	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/27/2007	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/19/2007	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/18/2007	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/19/2007	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/25/2008	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/18/2008	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/17/2008	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/16/2008	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/24/2009	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/17/2009	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/10/2009	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/03/2009	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/25/2010	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/23/2010	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/23/2010	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/08/2010	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/30/2011	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/06/2011	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/27/2011	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/14/2011	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/21/2012	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/08/2012	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/26/2012	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/03/2012	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/11/2013	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/05/2013	ND	1	mg/L		
Potassium, dissolved	MW-13B	12/03/2013	ND	1	mg/L		
Potassium, dissolved	MW-13B	03/04/2014	ND	1	mg/L		
Potassium, dissolved	MW-13B	06/02/2014	ND	1	mg/L		
Potassium, dissolved	MW-13B	09/22/2014	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/17/2014	ND	1	mg/L		
Potassium, dissolved	MW-13B	02/23/2015	ND	1	mg/L		
Potassium, dissolved	MW-13B	05/19/2015	ND	1	mg/L		
Potassium, dissolved	MW-13B	08/26/2015	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/10/2015	ND	1	mg/L		
Potassium, dissolved	MW-13B	02/22/2016	ND	1	mg/L		
Potassium, dissolved	MW-13B	05/16/2016	ND	1	mg/L		
Potassium, dissolved	MW-13B	08/31/2016	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/14/2016	ND	1	mg/L		
Potassium, dissolved	MW-13B	02/22/2017	ND	1	mg/L		
Potassium, dissolved	MW-13B	05/24/2017	ND	1	mg/L		
Potassium, dissolved	MW-13B	08/30/2017	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/13/2017	ND	1	mg/L		
Potassium, dissolved	MW-13B	02/20/2018	ND	1	mg/L		
Potassium, dissolved	MW-13B	05/15/2018	ND	1	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Potassium, dissolved	MW-13B	08/21/2018	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/12/2018	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/11/2019	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/19/2020	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/16/2021	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/17/2022	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/08/2023	ND	1	mg/L		
Potassium, dissolved	MW-13B	11/14/2024	ND	1	mg/L		
Potassium, dissolved	MW-16	03/24/2009	ND	1	mg/L		
Potassium, dissolved	MW-16	06/16/2009	ND	1	mg/L		
Potassium, dissolved	MW-16	09/09/2009	ND	1	mg/L		
Potassium, dissolved	MW-16	12/03/2009	ND	1	mg/L		
Potassium, dissolved	MW-16	03/25/2010	ND	1	mg/L		
Potassium, dissolved	MW-16	06/24/2010	ND	1	mg/L		
Potassium, dissolved	MW-16	09/24/2010	ND	1	mg/L		
Potassium, dissolved	MW-16	12/09/2010	ND	1	mg/L		
Potassium, dissolved	MW-16	03/30/2011	ND	1	mg/L		
Potassium, dissolved	MW-16	06/07/2011	ND	1	mg/L		
Potassium, dissolved	MW-16	09/27/2011	ND	1	mg/L		
Potassium, dissolved	MW-16	12/13/2011	ND	1	mg/L		
Potassium, dissolved	MW-16	03/21/2012	ND	1	mg/L		
Potassium, dissolved	MW-16	06/08/2012	ND	1	mg/L		
Potassium, dissolved	MW-16	09/27/2012	ND	1	mg/L		
Potassium, dissolved	MW-16	12/04/2012	ND	1	mg/L		
Potassium, dissolved	MW-16	03/12/2013	ND	1	mg/L		
Potassium, dissolved	MW-16	06/04/2013	ND	1	mg/L		
Potassium, dissolved	MW-16	09/05/2013	ND	1	mg/L		
Potassium, dissolved	MW-16	12/16/2013	ND	1	mg/L		
Potassium, dissolved	MW-16	03/05/2014	ND	1	mg/L		
Potassium, dissolved	MW-16	06/02/2014		1.2	mg/L		
Potassium, dissolved	MW-16	09/22/2014	ND	1	mg/L		
Potassium, dissolved	MW-16	11/18/2014	ND	1	mg/L		
Potassium, dissolved	MW-16	02/23/2015	ND	1	mg/L		
Potassium, dissolved	MW-16	05/20/2015	ND	1	mg/L		
Potassium, dissolved	MW-16	08/26/2015	ND	1	mg/L		
Potassium, dissolved	MW-16	11/11/2015	ND	1	mg/L		
Potassium, dissolved	MW-16	02/24/2016	ND	1	mg/L		
Potassium, dissolved	MW-16	05/16/2016	ND	1	mg/L		
Potassium, dissolved	MW-16	08/31/2016	ND	1	mg/L		
Potassium, dissolved	MW-16	11/14/2016	ND	1	mg/L		
Potassium, dissolved	MW-16	02/22/2017	ND	1	mg/L		
Potassium, dissolved	MW-16	05/24/2017	ND	1	mg/L		
Potassium, dissolved	MW-16	08/30/2017	ND	1	mg/L		
Potassium, dissolved	MW-16	11/13/2017	ND	1	mg/L		
Potassium, dissolved	MW-16	02/20/2018	ND	1	mg/L		
Potassium, dissolved	MW-16	05/17/2018	ND	1	mg/L		
Potassium, dissolved	MW-16	08/22/2018	ND	1	mg/L		
Potassium, dissolved	MW-16	11/12/2018	ND	1	mg/L		
Potassium, dissolved	MW-16	11/12/2019	ND	1	mg/L		
Potassium, dissolved	MW-16	11/20/2020	ND	1	mg/L		
Potassium, dissolved	MW-16	11/16/2021	ND	1	mg/L		
Potassium, dissolved	MW-16	11/17/2022	ND	1	mg/L		
Potassium, dissolved	MW-16	11/08/2023	ND	1	mg/L		
Potassium, dissolved	MW-16	11/14/2024		1	mg/L		
Potassium, dissolved	MW-35	03/22/2005		0.52	mg/L		
Potassium, dissolved	MW-35	06/14/2005		0.48	mg/L		
Potassium, dissolved	MW-35	09/27/2005		0.52	mg/L		
Potassium, dissolved	MW-35	12/15/2005		0.46	mg/L		
Potassium, dissolved	MW-35	03/28/2006	ND	1	mg/L		
Potassium, dissolved	MW-35	06/21/2006	ND	1	mg/L		
Potassium, dissolved	MW-35	09/26/2006	ND	1	mg/L		
Potassium, dissolved	MW-35	12/12/2006	ND	1	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Potassium, dissolved	MW-35	03/27/2007	ND	1	mg/L		
Potassium, dissolved	MW-35	06/20/2007	ND	1	mg/L		
Potassium, dissolved	MW-35	09/18/2007	ND	1	mg/L		
Potassium, dissolved	MW-35	12/20/2007	ND	1	mg/L		
Potassium, dissolved	MW-35	03/25/2008	ND	1	mg/L		
Potassium, dissolved	MW-35	06/18/2008	ND	1	mg/L		
Potassium, dissolved	MW-35	09/18/2008	ND	1	mg/L		
Potassium, dissolved	MW-35	12/19/2008	ND	1	mg/L		
Potassium, dissolved	MW-35	03/24/2009	ND	1	mg/L		
Potassium, dissolved	MW-35	06/16/2009	ND	1	mg/L		
Potassium, dissolved	MW-35	09/10/2009	ND	1	mg/L		
Potassium, dissolved	MW-35	12/03/2009	ND	1	mg/L		
Potassium, dissolved	MW-35	03/25/2010	ND	1	mg/L		
Potassium, dissolved	MW-35	06/23/2010	ND	1	mg/L		
Potassium, dissolved	MW-35	09/23/2010	ND	1	mg/L		
Potassium, dissolved	MW-35	12/09/2010	ND	1	mg/L		
Potassium, dissolved	MW-35	03/30/2011	ND	1	mg/L		
Potassium, dissolved	MW-35	06/06/2011	ND	1	mg/L		
Potassium, dissolved	MW-35	09/26/2011	ND	1	mg/L		
Potassium, dissolved	MW-35	12/13/2011	ND	1	mg/L		
Potassium, dissolved	MW-35	03/21/2012	ND	1	mg/L		
Potassium, dissolved	MW-35	06/06/2012	ND	1	mg/L		
Potassium, dissolved	MW-35	09/26/2012	ND	1	mg/L		
Potassium, dissolved	MW-35	12/04/2012	ND	1	mg/L		
Potassium, dissolved	MW-35	03/13/2013	ND	1	mg/L		
Potassium, dissolved	MW-35	06/06/2013	ND	1	mg/L		
Potassium, dissolved	MW-35	09/05/2013	ND	1	mg/L		
Potassium, dissolved	MW-35	12/16/2013	ND	1	mg/L		
Potassium, dissolved	MW-35	03/04/2014	ND	1	mg/L		
Potassium, dissolved	MW-35	06/02/2014	ND	1	mg/L		
Potassium, dissolved	MW-35	09/22/2014	ND	1	mg/L		
Potassium, dissolved	MW-35	11/17/2014	ND	1	mg/L		
Potassium, dissolved	MW-35	02/25/2015	ND	1	mg/L		
Potassium, dissolved	MW-35	05/19/2015	ND	1	mg/L		
Potassium, dissolved	MW-35	08/26/2015	ND	1	mg/L		
Potassium, dissolved	MW-35	11/10/2015	ND	1	mg/L		
Potassium, dissolved	MW-35	02/22/2016	ND	1	mg/L		
Potassium, dissolved	MW-35	05/16/2016	ND	1	mg/L		
Potassium, dissolved	MW-35	08/31/2016	ND	1	mg/L		
Potassium, dissolved	MW-35	11/15/2016	ND	1	mg/L		
Potassium, dissolved	MW-35	02/22/2017	ND	1	mg/L		
Potassium, dissolved	MW-35	05/24/2017	ND	1	mg/L		
Potassium, dissolved	MW-35	08/30/2017	ND	1	mg/L		
Potassium, dissolved	MW-35	11/15/2017	ND	1	mg/L		
Potassium, dissolved	MW-35	02/20/2018	ND	1	mg/L		
Potassium, dissolved	MW-35	05/17/2018	ND	1	mg/L		
Potassium, dissolved	MW-35	08/22/2018	ND	1	mg/L		
Potassium, dissolved	MW-35	11/12/2018	ND	1	mg/L		
Potassium, dissolved	MW-35	11/12/2019	ND	1	mg/L		
Potassium, dissolved	MW-35	11/19/2020	ND	1	mg/L		
Potassium, dissolved	MW-35	11/16/2021	ND	1	mg/L		
Potassium, dissolved	MW-35	11/17/2022	ND	1	mg/L		
Potassium, dissolved	MW-35	11/08/2023	ND	1	mg/L		
Potassium, dissolved	MW-35	11/14/2024	ND	1	mg/L		
Selenium, total	MW-13A	12/03/2013	ND	0.001	mg/L		
Selenium, total	MW-13A	03/04/2014	ND	0.001	mg/L		
Selenium, total	MW-13A	06/02/2014	ND	0.001	mg/L		
Selenium, total	MW-13A	09/22/2014	ND	0.001	mg/L		
Selenium, total	MW-13A	11/17/2014	ND	0.001	mg/L		
Selenium, total	MW-13A	02/23/2015	ND	0.001	mg/L		
Selenium, total	MW-13A	05/19/2015	ND	0.001	mg/L		
Selenium, total	MW-13A	08/26/2015	ND	0.001	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Selenium, total	MW-13A	11/10/2015	ND	0.001	mg/L		
Selenium, total	MW-13A	02/22/2016	ND	0.001	mg/L		
Selenium, total	MW-13A	05/16/2016	ND	0.001	mg/L		
Selenium, total	MW-13A	08/31/2016	ND	0.001	mg/L		
Selenium, total	MW-13A	11/14/2016	ND	0.001	mg/L		
Selenium, total	MW-13A	02/22/2017	ND	0.001	mg/L		
Selenium, total	MW-13A	05/24/2017	ND	0.001	mg/L		
Selenium, total	MW-13A	08/30/2017	ND	0.001	mg/L		
Selenium, total	MW-13A	11/13/2017	ND	0.001	mg/L		
Selenium, total	MW-13A	02/20/2018	ND	0.001	mg/L		
Selenium, total	MW-13A	05/15/2018	ND	0.001	mg/L		
Selenium, total	MW-13A	08/21/2018	ND	0.001	mg/L		
Selenium, total	MW-13A	11/12/2018	ND	0.001	mg/L		
Selenium, total	MW-13A	11/11/2019	ND	0.001	mg/L		
Selenium, total	MW-13A	11/19/2020	ND	0.001	mg/L		
Selenium, total	MW-13A	11/16/2021	ND	0.001	mg/L		
Selenium, total	MW-13A	11/17/2022	ND	0.001	mg/L		
Selenium, total	MW-13A	11/08/2023	ND	0.001	mg/L		
Selenium, total	MW-13A	11/14/2024	ND	0.001	mg/L		
Selenium, total	MW-13B	12/03/2013	ND	0.001	mg/L		
Selenium, total	MW-13B	03/04/2014	ND	0.001	mg/L		
Selenium, total	MW-13B	06/02/2014	ND	0.001	mg/L		
Selenium, total	MW-13B	09/22/2014	ND	0.001	mg/L		
Selenium, total	MW-13B	11/17/2014	ND	0.001	mg/L		
Selenium, total	MW-13B	02/23/2015	ND	0.001	mg/L		
Selenium, total	MW-13B	05/19/2015	ND	0.001	mg/L		
Selenium, total	MW-13B	08/26/2015	ND	0.001	mg/L		
Selenium, total	MW-13B	11/10/2015	ND	0.001	mg/L		
Selenium, total	MW-13B	02/22/2016	ND	0.001	mg/L		
Selenium, total	MW-13B	05/16/2016	ND	0.001	mg/L		
Selenium, total	MW-13B	08/31/2016	ND	0.001	mg/L		
Selenium, total	MW-13B	11/14/2016	ND	0.001	mg/L		
Selenium, total	MW-13B	02/22/2017	ND	0.001	mg/L		
Selenium, total	MW-13B	05/24/2017	ND	0.001	mg/L		
Selenium, total	MW-13B	08/30/2017	ND	0.001	mg/L		
Selenium, total	MW-13B	11/13/2017	ND	0.001	mg/L		
Selenium, total	MW-13B	02/20/2018	ND	0.001	mg/L		
Selenium, total	MW-13B	05/15/2018	ND	0.001	mg/L		
Selenium, total	MW-13B	08/21/2018	ND	0.001	mg/L		
Selenium, total	MW-13B	11/12/2018	ND	0.001	mg/L		
Selenium, total	MW-13B	11/11/2019	ND	0.001	mg/L		
Selenium, total	MW-13B	11/19/2020	ND	0.001	mg/L		
Selenium, total	MW-13B	11/16/2021	ND	0.001	mg/L		
Selenium, total	MW-13B	11/17/2022	ND	0.001	mg/L		
Selenium, total	MW-13B	11/08/2023	ND	0.001	mg/L		
Selenium, total	MW-13B	11/14/2024	ND	0.001	mg/L		
Selenium, total	MW-16	09/05/2013	ND	0.001	mg/L		
Selenium, total	MW-16	12/16/2013	ND	0.001	mg/L		
Selenium, total	MW-16	03/05/2014	ND	0.001	mg/L		
Selenium, total	MW-16	06/02/2014	ND	0.001	mg/L		
Selenium, total	MW-16	09/22/2014	ND	0.001	mg/L		
Selenium, total	MW-16	11/18/2014	ND	0.001	mg/L		
Selenium, total	MW-16	02/23/2015	ND	0.001	mg/L		
Selenium, total	MW-16	05/20/2015	ND	0.001	mg/L		
Selenium, total	MW-16	08/26/2015	ND	0.001	mg/L		
Selenium, total	MW-16	11/11/2015	ND	0.001	mg/L		
Selenium, total	MW-16	02/24/2016	ND	0.001	mg/L		
Selenium, total	MW-16	05/16/2016	ND	0.001	mg/L		
Selenium, total	MW-16	08/31/2016	ND	0.001	mg/L		
Selenium, total	MW-16	11/14/2016	ND	0.001	mg/L		
Selenium, total	MW-16	02/22/2017	ND	0.001	mg/L		
Selenium, total	MW-16	05/24/2017	ND	0.001	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Selenium, total	MW-16	08/30/2017	ND	0.001	mg/L		
Selenium, total	MW-16	11/13/2017	ND	0.001	mg/L		
Selenium, total	MW-16	02/20/2018	ND	0.001	mg/L		
Selenium, total	MW-16	05/17/2018	ND	0.001	mg/L		
Selenium, total	MW-16	08/22/2018	ND	0.001	mg/L		
Selenium, total	MW-16	11/12/2018	ND	0.001	mg/L		
Selenium, total	MW-16	11/12/2019	ND	0.001	mg/L		
Selenium, total	MW-16	11/20/2020	ND	0.001	mg/L		
Selenium, total	MW-16	11/16/2021	ND	0.001	mg/L		
Selenium, total	MW-16	11/17/2022	ND	0.001	mg/L		
Selenium, total	MW-16	11/08/2023	ND	0.001	mg/L		
Selenium, total	MW-16	11/14/2024	ND	0.001	mg/L		
Selenium, total	MW-35	09/05/2013	ND	0.001	mg/L		
Selenium, total	MW-35	12/16/2013	ND	0.001	mg/L		
Selenium, total	MW-35	03/04/2014	ND	0.001	mg/L		
Selenium, total	MW-35	06/02/2014	ND	0.001	mg/L		
Selenium, total	MW-35	09/22/2014	ND	0.001	mg/L		
Selenium, total	MW-35	11/17/2014	ND	0.001	mg/L		
Selenium, total	MW-35	02/25/2015	ND	0.001	mg/L		
Selenium, total	MW-35	05/19/2015	ND	0.001	mg/L		
Selenium, total	MW-35	08/26/2015	ND	0.001	mg/L		
Selenium, total	MW-35	11/10/2015	ND	0.001	mg/L		
Selenium, total	MW-35	02/22/2016	ND	0.001	mg/L		
Selenium, total	MW-35	05/16/2016	ND	0.001	mg/L		
Selenium, total	MW-35	08/31/2016	ND	0.001	mg/L		
Selenium, total	MW-35	11/15/2016	ND	0.001	mg/L		
Selenium, total	MW-35	02/22/2017	ND	0.001	mg/L		
Selenium, total	MW-35	05/24/2017	ND	0.001	mg/L		
Selenium, total	MW-35	08/30/2017	ND	0.001	mg/L		
Selenium, total	MW-35	11/15/2017	ND	0.001	mg/L		
Selenium, total	MW-35	02/20/2018	ND	0.001	mg/L		
Selenium, total	MW-35	05/17/2018	ND	0.001	mg/L		
Selenium, total	MW-35	08/22/2018	ND	0.001	mg/L		
Selenium, total	MW-35	11/12/2018	ND	0.001	mg/L		
Selenium, total	MW-35	11/12/2019	ND	0.001	mg/L		
Selenium, total	MW-35	11/19/2020	ND	0.001	mg/L		
Selenium, total	MW-35	11/16/2021	ND	0.001	mg/L		
Selenium, total	MW-35	11/17/2022	ND	0.001	mg/L		
Selenium, total	MW-35	11/08/2023	ND	0.001	mg/L		
Selenium, total	MW-35	11/14/2024	ND	0.001	mg/L		
Silver, total	MW-13A	12/03/2013	ND	0.002	mg/L		
Silver, total	MW-13A	03/04/2014	ND	0.002	mg/L		
Silver, total	MW-13A	06/02/2014	ND	0.002	mg/L		
Silver, total	MW-13A	09/22/2014	ND	0.002	mg/L		
Silver, total	MW-13A	11/17/2014	ND	0.002	mg/L		
Silver, total	MW-13A	02/23/2015	ND	0.002	mg/L		
Silver, total	MW-13A	05/19/2015	ND	0.002	mg/L		
Silver, total	MW-13A	08/26/2015	ND	0.002	mg/L		
Silver, total	MW-13A	11/10/2015	ND	0.002	mg/L		
Silver, total	MW-13A	02/22/2016	ND	0.002	mg/L		
Silver, total	MW-13A	05/16/2016	ND	0.002	mg/L		
Silver, total	MW-13A	08/31/2016	ND	0.002	mg/L		
Silver, total	MW-13A	11/14/2016	ND	0.002	mg/L		
Silver, total	MW-13A	02/22/2017	ND	0.002	mg/L		
Silver, total	MW-13A	05/24/2017	ND	0.002	mg/L		
Silver, total	MW-13A	08/30/2017	ND	0.002	mg/L		
Silver, total	MW-13A	11/13/2017	ND	0.002	mg/L		
Silver, total	MW-13A	02/20/2018	ND	0.002	mg/L		
Silver, total	MW-13A	05/15/2018	ND	0.002	mg/L		
Silver, total	MW-13A	08/21/2018	ND	0.002	mg/L		
Silver, total	MW-13A	11/12/2018	ND	0.002	mg/L		
Silver, total	MW-13A	11/11/2019	ND	0.002	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Silver, total	MW-13A	11/19/2020	ND	0.002	mg/L		
Silver, total	MW-13A	11/16/2021	ND	0.002	mg/L		
Silver, total	MW-13A	11/17/2022	ND	0.002	mg/L		
Silver, total	MW-13A	11/08/2023	ND	0.002	mg/L		
Silver, total	MW-13A	11/14/2024	ND	0.002	mg/L		
Silver, total	MW-13B	12/03/2013	ND	0.002	mg/L		
Silver, total	MW-13B	03/04/2014	ND	0.002	mg/L		
Silver, total	MW-13B	06/02/2014	ND	0.002	mg/L		
Silver, total	MW-13B	09/22/2014	ND	0.002	mg/L		
Silver, total	MW-13B	11/17/2014	ND	0.002	mg/L		
Silver, total	MW-13B	02/23/2015	ND	0.002	mg/L		
Silver, total	MW-13B	05/19/2015	ND	0.002	mg/L		
Silver, total	MW-13B	08/26/2015	ND	0.002	mg/L		
Silver, total	MW-13B	11/10/2015	ND	0.002	mg/L		
Silver, total	MW-13B	02/22/2016	ND	0.002	mg/L		
Silver, total	MW-13B	05/16/2016	ND	0.002	mg/L		
Silver, total	MW-13B	08/31/2016	ND	0.002	mg/L		
Silver, total	MW-13B	11/14/2016	ND	0.002	mg/L		
Silver, total	MW-13B	02/22/2017	ND	0.002	mg/L		
Silver, total	MW-13B	05/24/2017	ND	0.002	mg/L		
Silver, total	MW-13B	08/30/2017	ND	0.002	mg/L		
Silver, total	MW-13B	11/13/2017	ND	0.002	mg/L		
Silver, total	MW-13B	02/20/2018	ND	0.002	mg/L		
Silver, total	MW-13B	05/15/2018	ND	0.002	mg/L		
Silver, total	MW-13B	08/21/2018	ND	0.002	mg/L		
Silver, total	MW-13B	11/12/2018	ND	0.002	mg/L		
Silver, total	MW-13B	11/11/2019	ND	0.002	mg/L		
Silver, total	MW-13B	11/19/2020	ND	0.002	mg/L		
Silver, total	MW-13B	11/16/2021	ND	0.002	mg/L		
Silver, total	MW-13B	11/17/2022	ND	0.002	mg/L		
Silver, total	MW-13B	11/08/2023	ND	0.002	mg/L		
Silver, total	MW-13B	11/14/2024	ND	0.002	mg/L		
Silver, total	MW-16	09/05/2013	ND	0.002	mg/L		
Silver, total	MW-16	12/16/2013	ND	0.002	mg/L		
Silver, total	MW-16	03/05/2014	ND	0.002	mg/L		
Silver, total	MW-16	06/02/2014	ND	0.002	mg/L		
Silver, total	MW-16	09/22/2014	ND	0.002	mg/L		
Silver, total	MW-16	11/18/2014	ND	0.002	mg/L		
Silver, total	MW-16	02/23/2015	ND	0.002	mg/L		
Silver, total	MW-16	05/20/2015	ND	0.002	mg/L		
Silver, total	MW-16	08/26/2015	ND	0.002	mg/L		
Silver, total	MW-16	11/11/2015	ND	0.002	mg/L		
Silver, total	MW-16	02/24/2016	ND	0.002	mg/L		
Silver, total	MW-16	05/16/2016	ND	0.002	mg/L		
Silver, total	MW-16	08/31/2016	ND	0.002	mg/L		
Silver, total	MW-16	11/14/2016	ND	0.002	mg/L		
Silver, total	MW-16	02/22/2017	ND	0.002	mg/L		
Silver, total	MW-16	05/24/2017	ND	0.002	mg/L		
Silver, total	MW-16	08/30/2017	ND	0.002	mg/L		
Silver, total	MW-16	11/13/2017	ND	0.002	mg/L		
Silver, total	MW-16	02/20/2018	ND	0.002	mg/L		
Silver, total	MW-16	05/17/2018	ND	0.002	mg/L		
Silver, total	MW-16	08/22/2018	ND	0.002	mg/L		
Silver, total	MW-16	11/12/2018	ND	0.002	mg/L		
Silver, total	MW-16	11/12/2019	ND	0.002	mg/L		
Silver, total	MW-16	11/20/2020	ND	0.002	mg/L		
Silver, total	MW-16	11/16/2021	ND	0.002	mg/L		
Silver, total	MW-16	11/17/2022	ND	0.002	mg/L		
Silver, total	MW-16	11/08/2023	ND	0.002	mg/L		
Silver, total	MW-16	11/14/2024	ND	0.002	mg/L		
Silver, total	MW-35	09/05/2013	ND	0.002	mg/L		
Silver, total	MW-35	12/16/2013	ND	0.002	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Silver, total	MW-35	03/04/2014	ND	0.002	mg/L		
Silver, total	MW-35	06/02/2014	ND	0.002	mg/L		
Silver, total	MW-35	09/22/2014	ND	0.002	mg/L		
Silver, total	MW-35	11/17/2014	ND	0.002	mg/L		
Silver, total	MW-35	02/25/2015	ND	0.002	mg/L		
Silver, total	MW-35	05/19/2015	ND	0.002	mg/L		
Silver, total	MW-35	08/26/2015	ND	0.002	mg/L		
Silver, total	MW-35	11/10/2015	ND	0.002	mg/L		
Silver, total	MW-35	02/22/2016	ND	0.002	mg/L		
Silver, total	MW-35	05/16/2016	ND	0.002	mg/L		
Silver, total	MW-35	08/31/2016	ND	0.002	mg/L		
Silver, total	MW-35	11/15/2016	ND	0.002	mg/L		
Silver, total	MW-35	02/22/2017	ND	0.002	mg/L		
Silver, total	MW-35	05/24/2017	ND	0.002	mg/L		
Silver, total	MW-35	08/30/2017	ND	0.002	mg/L		
Silver, total	MW-35	11/15/2017	ND	0.002	mg/L		
Silver, total	MW-35	02/20/2018	ND	0.002	mg/L		
Silver, total	MW-35	05/17/2018	ND	0.002	mg/L		
Silver, total	MW-35	08/22/2018	ND	0.002	mg/L		
Silver, total	MW-35	11/12/2018	ND	0.002	mg/L		
Silver, total	MW-35	11/12/2019	ND	0.002	mg/L		
Silver, total	MW-35	11/19/2020	ND	0.002	mg/L		
Silver, total	MW-35	11/16/2021	ND	0.002	mg/L		
Silver, total	MW-35	11/17/2022	ND	0.002	mg/L		
Silver, total	MW-35	11/08/2023	ND	0.002	mg/L		
Silver, total	MW-35	11/14/2024	ND	0.002	mg/L		
Sodium, dissolved	MW-13A	03/22/2005		5.4	mg/L		
Sodium, dissolved	MW-13A	06/15/2005		4.4	mg/L		
Sodium, dissolved	MW-13A	09/27/2005		4.5	mg/L		
Sodium, dissolved	MW-13A	12/15/2005		4.8	mg/L		
Sodium, dissolved	MW-13A	03/28/2006		5.4	mg/L		
Sodium, dissolved	MW-13A	06/21/2006		5.2	mg/L		
Sodium, dissolved	MW-13A	09/26/2006		5.5	mg/L		
Sodium, dissolved	MW-13A	12/13/2006		4.8	mg/L		
Sodium, dissolved	MW-13A	03/27/2007		5.4	mg/L		
Sodium, dissolved	MW-13A	06/19/2007		5.5	mg/L		
Sodium, dissolved	MW-13A	09/19/2007		5.4	mg/L		
Sodium, dissolved	MW-13A	12/19/2007		4.9	mg/L		
Sodium, dissolved	MW-13A	03/25/2008		5.5	mg/L		
Sodium, dissolved	MW-13A	06/18/2008		5.5	mg/L		
Sodium, dissolved	MW-13A	09/17/2008		5.2	mg/L		
Sodium, dissolved	MW-13A	12/17/2008		5.5	mg/L		
Sodium, dissolved	MW-13A	03/24/2009		5.3	mg/L		
Sodium, dissolved	MW-13A	06/17/2009		5.4	mg/L		
Sodium, dissolved	MW-13A	09/10/2009		5.2	mg/L		
Sodium, dissolved	MW-13A	12/03/2009		5.6	mg/L		
Sodium, dissolved	MW-13A	03/25/2010		6.1	mg/L		
Sodium, dissolved	MW-13A	06/23/2010		5.7	mg/L		
Sodium, dissolved	MW-13A	09/23/2010		5	mg/L		
Sodium, dissolved	MW-13A	12/08/2010		5.2	mg/L		
Sodium, dissolved	MW-13A	03/30/2011		5.4	mg/L		
Sodium, dissolved	MW-13A	06/06/2011		5.4	mg/L		
Sodium, dissolved	MW-13A	09/27/2011		5.6	mg/L		
Sodium, dissolved	MW-13A	12/14/2011		5.5	mg/L		
Sodium, dissolved	MW-13A	03/21/2012		5.3	mg/L		
Sodium, dissolved	MW-13A	06/08/2012		5.2	mg/L		
Sodium, dissolved	MW-13A	09/26/2012		5.2	mg/L		
Sodium, dissolved	MW-13A	12/03/2012		5.5	mg/L		
Sodium, dissolved	MW-13A	03/11/2013		5.7	mg/L		
Sodium, dissolved	MW-13A	06/05/2013		5.6	mg/L		
Sodium, dissolved	MW-13A	12/03/2013		5.5	mg/L		
Sodium, dissolved	MW-13A	03/04/2014		5.4	mg/L		

* = outlier for that well/constituent
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ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Sodium, dissolved	MW-13A	06/02/2014		5.2	mg/L		
Sodium, dissolved	MW-13A	09/22/2014		5.2	mg/L		
Sodium, dissolved	MW-13A	11/17/2014		5.4	mg/L		
Sodium, dissolved	MW-13A	02/23/2015		5.2	mg/L		
Sodium, dissolved	MW-13A	05/19/2015		5.5	mg/L		
Sodium, dissolved	MW-13A	08/26/2015		5.3	mg/L		
Sodium, dissolved	MW-13A	11/10/2015		5.4	mg/L		
Sodium, dissolved	MW-13A	02/22/2016		5.9	mg/L		
Sodium, dissolved	MW-13A	05/16/2016		5.5	mg/L		
Sodium, dissolved	MW-13A	08/31/2016		5.4	mg/L		
Sodium, dissolved	MW-13A	11/14/2016		5.4	mg/L		
Sodium, dissolved	MW-13A	02/22/2017		5.4	mg/L		
Sodium, dissolved	MW-13A	05/24/2017		7.7	mg/L		
Sodium, dissolved	MW-13A	08/30/2017		5.4	mg/L		
Sodium, dissolved	MW-13A	11/13/2017		5.1	mg/L		
Sodium, dissolved	MW-13A	02/20/2018		4.6	mg/L		
Sodium, dissolved	MW-13A	05/15/2018		4.8	mg/L		
Sodium, dissolved	MW-13A	08/21/2018		4.9	mg/L		
Sodium, dissolved	MW-13A	11/12/2018		5.2	mg/L		
Sodium, dissolved	MW-13A	11/11/2019		5	mg/L		
Sodium, dissolved	MW-13A	11/19/2020		5.3	mg/L		
Sodium, dissolved	MW-13A	11/16/2021		5.4	mg/L		
Sodium, dissolved	MW-13A	11/17/2022		5.4	mg/L		
Sodium, dissolved	MW-13A	11/08/2023		5.1	mg/L		
Sodium, dissolved	MW-13A	11/14/2024		5.3	mg/L		
Sodium, dissolved	MW-13B	03/22/2005		5.3	mg/L		
Sodium, dissolved	MW-13B	06/15/2005		4.8	mg/L		
Sodium, dissolved	MW-13B	09/27/2005		5	mg/L		
Sodium, dissolved	MW-13B	12/15/2005		4.8	mg/L		
Sodium, dissolved	MW-13B	03/29/2006		4.9	mg/L		
Sodium, dissolved	MW-13B	06/21/2006		5	mg/L		
Sodium, dissolved	MW-13B	09/26/2006		5.5	mg/L		
Sodium, dissolved	MW-13B	12/13/2006		4.8	mg/L		
Sodium, dissolved	MW-13B	03/27/2007		5.2	mg/L		
Sodium, dissolved	MW-13B	06/19/2007		5.2	mg/L		
Sodium, dissolved	MW-13B	09/18/2007		5.2	mg/L		
Sodium, dissolved	MW-13B	12/19/2007		4.9	mg/L		
Sodium, dissolved	MW-13B	03/25/2008		5.3	mg/L		
Sodium, dissolved	MW-13B	06/18/2008		5.3	mg/L		
Sodium, dissolved	MW-13B	09/17/2008		5	mg/L		
Sodium, dissolved	MW-13B	12/16/2008		5.1	mg/L		
Sodium, dissolved	MW-13B	03/24/2009		5.1	mg/L		
Sodium, dissolved	MW-13B	06/17/2009		5.3	mg/L		
Sodium, dissolved	MW-13B	09/10/2009		5.1	mg/L		
Sodium, dissolved	MW-13B	12/03/2009		5.3	mg/L		
Sodium, dissolved	MW-13B	03/25/2010		5.3	mg/L		
Sodium, dissolved	MW-13B	06/23/2010		5.3	mg/L		
Sodium, dissolved	MW-13B	09/23/2010		4.8	mg/L		
Sodium, dissolved	MW-13B	12/08/2010		5.6	mg/L		
Sodium, dissolved	MW-13B	03/30/2011		5.1	mg/L		
Sodium, dissolved	MW-13B	06/06/2011		5.2	mg/L		
Sodium, dissolved	MW-13B	09/27/2011		5.2	mg/L		
Sodium, dissolved	MW-13B	12/14/2011		5.1	mg/L		
Sodium, dissolved	MW-13B	03/21/2012		4.9	mg/L		
Sodium, dissolved	MW-13B	06/08/2012		5.1	mg/L		
Sodium, dissolved	MW-13B	09/26/2012		5	mg/L		
Sodium, dissolved	MW-13B	12/03/2012		5.7	mg/L		
Sodium, dissolved	MW-13B	03/11/2013		5.3	mg/L		
Sodium, dissolved	MW-13B	06/05/2013		5.4	mg/L		
Sodium, dissolved	MW-13B	12/03/2013		5.4	mg/L		
Sodium, dissolved	MW-13B	03/04/2014		5.1	mg/L		
Sodium, dissolved	MW-13B	06/02/2014		4.9	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Sodium, dissolved	MW-13B	09/22/2014		5	mg/L		
Sodium, dissolved	MW-13B	11/17/2014		5.3	mg/L		
Sodium, dissolved	MW-13B	02/23/2015		5	mg/L		
Sodium, dissolved	MW-13B	05/19/2015		5.5	mg/L		
Sodium, dissolved	MW-13B	08/26/2015		5.2	mg/L		
Sodium, dissolved	MW-13B	11/10/2015		5.2	mg/L		
Sodium, dissolved	MW-13B	02/22/2016		5.8	mg/L		
Sodium, dissolved	MW-13B	05/16/2016		5.2	mg/L		
Sodium, dissolved	MW-13B	08/31/2016		5.8	mg/L		
Sodium, dissolved	MW-13B	11/14/2016		5.1	mg/L		
Sodium, dissolved	MW-13B	02/22/2017		4.9	mg/L		
Sodium, dissolved	MW-13B	05/24/2017		5.4	mg/L		
Sodium, dissolved	MW-13B	08/30/2017		5.4	mg/L		
Sodium, dissolved	MW-13B	11/13/2017		5.1	mg/L		
Sodium, dissolved	MW-13B	02/20/2018		5	mg/L		
Sodium, dissolved	MW-13B	05/15/2018		4.6	mg/L		
Sodium, dissolved	MW-13B	08/21/2018		5.1	mg/L		
Sodium, dissolved	MW-13B	11/12/2018		5.3	mg/L		
Sodium, dissolved	MW-13B	11/11/2019		5	mg/L		
Sodium, dissolved	MW-13B	11/19/2020		5.3	mg/L		
Sodium, dissolved	MW-13B	11/16/2021		5	mg/L		
Sodium, dissolved	MW-13B	11/17/2022		5.4	mg/L		
Sodium, dissolved	MW-13B	11/08/2023		4.7	mg/L		
Sodium, dissolved	MW-13B	11/14/2024		5.2	mg/L		
Sodium, dissolved	MW-16	03/24/2009		5.4	mg/L		
Sodium, dissolved	MW-16	06/16/2009		5.3	mg/L		
Sodium, dissolved	MW-16	09/09/2009		5.4	mg/L		
Sodium, dissolved	MW-16	12/03/2009		6.2	mg/L		
Sodium, dissolved	MW-16	03/25/2010		4.9	mg/L		
Sodium, dissolved	MW-16	06/24/2010		5.7	mg/L		
Sodium, dissolved	MW-16	09/24/2010		5.7	mg/L		
Sodium, dissolved	MW-16	12/09/2010		5.2	mg/L		
Sodium, dissolved	MW-16	03/30/2011		4.7	mg/L		
Sodium, dissolved	MW-16	06/07/2011		5	mg/L		
Sodium, dissolved	MW-16	09/27/2011		5.8	mg/L		
Sodium, dissolved	MW-16	12/13/2011		5.3	mg/L		
Sodium, dissolved	MW-16	03/21/2012		4.7	mg/L		
Sodium, dissolved	MW-16	06/08/2012		4.8	mg/L		
Sodium, dissolved	MW-16	09/27/2012		5.4	mg/L		
Sodium, dissolved	MW-16	12/04/2012		4.7	mg/L		
Sodium, dissolved	MW-16	03/12/2013		5.1	mg/L		
Sodium, dissolved	MW-16	06/04/2013		5.3	mg/L		
Sodium, dissolved	MW-16	09/05/2013		6.2	mg/L		
Sodium, dissolved	MW-16	12/16/2013		5.7	mg/L		
Sodium, dissolved	MW-16	03/05/2014		4.9	mg/L		
Sodium, dissolved	MW-16	06/02/2014		4.5	mg/L		
Sodium, dissolved	MW-16	09/22/2014		4.9	mg/L		
Sodium, dissolved	MW-16	11/18/2014		4.8	mg/L		
Sodium, dissolved	MW-16	02/23/2015		4.7	mg/L		
Sodium, dissolved	MW-16	05/20/2015		4.6	mg/L		
Sodium, dissolved	MW-16	08/26/2015		4.9	mg/L		
Sodium, dissolved	MW-16	11/11/2015		5.7	mg/L		
Sodium, dissolved	MW-16	02/24/2016		4.4	mg/L		
Sodium, dissolved	MW-16	05/16/2016		4.8	mg/L		
Sodium, dissolved	MW-16	08/31/2016		5.4	mg/L		
Sodium, dissolved	MW-16	11/14/2016		5	mg/L		
Sodium, dissolved	MW-16	02/22/2017		4.2	mg/L		
Sodium, dissolved	MW-16	05/24/2017		4.4	mg/L		
Sodium, dissolved	MW-16	08/30/2017		4.9	mg/L		
Sodium, dissolved	MW-16	11/13/2017		4.9	mg/L		
Sodium, dissolved	MW-16	02/20/2018		4.2	mg/L		
Sodium, dissolved	MW-16	05/17/2018		4.2	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Sodium, dissolved	MW-16	08/22/2018		4.4	mg/L		
Sodium, dissolved	MW-16	11/12/2018		5.1	mg/L		
Sodium, dissolved	MW-16	11/12/2019		5.5	mg/L		
Sodium, dissolved	MW-16	11/20/2020		5.6	mg/L		
Sodium, dissolved	MW-16	11/16/2021		5.6	mg/L		
Sodium, dissolved	MW-16	11/17/2022		5.2	mg/L		
Sodium, dissolved	MW-16	11/08/2023		4.8	mg/L		
Sodium, dissolved	MW-16	11/14/2024		5.4	mg/L		
Sodium, dissolved	MW-35	03/22/2005		5.1	mg/L		
Sodium, dissolved	MW-35	06/14/2005		4.5	mg/L		
Sodium, dissolved	MW-35	09/27/2005		5.1	mg/L		
Sodium, dissolved	MW-35	12/15/2005		4.6	mg/L		
Sodium, dissolved	MW-35	03/28/2006		5	mg/L		
Sodium, dissolved	MW-35	06/21/2006		4.9	mg/L		
Sodium, dissolved	MW-35	09/26/2006		5.1	mg/L		
Sodium, dissolved	MW-35	12/12/2006		4.7	mg/L		
Sodium, dissolved	MW-35	03/27/2007		5.1	mg/L		
Sodium, dissolved	MW-35	06/20/2007		5.2	mg/L		
Sodium, dissolved	MW-35	09/18/2007		5.2	mg/L		
Sodium, dissolved	MW-35	12/20/2007		4.8	mg/L		
Sodium, dissolved	MW-35	03/25/2008		5.1	mg/L		
Sodium, dissolved	MW-35	06/18/2008		4.9	mg/L		
Sodium, dissolved	MW-35	09/18/2008		4.8	mg/L		
Sodium, dissolved	MW-35	12/19/2008		4.7	mg/L		
Sodium, dissolved	MW-35	03/24/2009		5	mg/L		
Sodium, dissolved	MW-35	06/16/2009		5.1	mg/L		
Sodium, dissolved	MW-35	09/10/2009		4.9	mg/L		
Sodium, dissolved	MW-35	12/03/2009		5.3	mg/L		
Sodium, dissolved	MW-35	03/25/2010		5	mg/L		
Sodium, dissolved	MW-35	06/23/2010		5.1	mg/L		
Sodium, dissolved	MW-35	09/23/2010		4.7	mg/L		
Sodium, dissolved	MW-35	12/09/2010		4.8	mg/L		
Sodium, dissolved	MW-35	03/30/2011		4.9	mg/L		
Sodium, dissolved	MW-35	06/06/2011		5.1	mg/L		
Sodium, dissolved	MW-35	09/26/2011		5.2	mg/L		
Sodium, dissolved	MW-35	12/13/2011		5.1	mg/L		
Sodium, dissolved	MW-35	03/21/2012		5	mg/L		
Sodium, dissolved	MW-35	06/06/2012		4.8	mg/L		
Sodium, dissolved	MW-35	09/26/2012		4.9	mg/L		
Sodium, dissolved	MW-35	12/04/2012		4.5	mg/L		
Sodium, dissolved	MW-35	03/13/2013		4.9	mg/L		
Sodium, dissolved	MW-35	06/06/2013		4.9	mg/L		
Sodium, dissolved	MW-35	09/05/2013		4.9	mg/L		
Sodium, dissolved	MW-35	12/16/2013		5.9	mg/L		
Sodium, dissolved	MW-35	03/04/2014		5.1	mg/L		
Sodium, dissolved	MW-35	06/02/2014		4.9	mg/L		
Sodium, dissolved	MW-35	09/22/2014		5.1	mg/L		
Sodium, dissolved	MW-35	11/17/2014		5.2	mg/L		
Sodium, dissolved	MW-35	02/25/2015		5.2	mg/L		
Sodium, dissolved	MW-35	05/19/2015		4.8	mg/L		
Sodium, dissolved	MW-35	08/26/2015		5.1	mg/L		
Sodium, dissolved	MW-35	11/10/2015		5.5	mg/L		
Sodium, dissolved	MW-35	02/22/2016		5.6	mg/L		
Sodium, dissolved	MW-35	05/16/2016		5.2	mg/L		
Sodium, dissolved	MW-35	08/31/2016		5.1	mg/L		
Sodium, dissolved	MW-35	11/15/2016		6.3	mg/L		
Sodium, dissolved	MW-35	02/22/2017		4.9	mg/L		
Sodium, dissolved	MW-35	05/24/2017		5	mg/L		
Sodium, dissolved	MW-35	08/30/2017		5.4	mg/L		
Sodium, dissolved	MW-35	11/15/2017		5	mg/L		
Sodium, dissolved	MW-35	02/20/2018		4.8	mg/L		
Sodium, dissolved	MW-35	05/17/2018		4.8	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Sodium, dissolved	MW-35	08/22/2018		4.8	mg/L		
Sodium, dissolved	MW-35	11/12/2018		5.2	mg/L		
Sodium, dissolved	MW-35	11/12/2019		5.6	mg/L		
Sodium, dissolved	MW-35	11/19/2020		5.2	mg/L		
Sodium, dissolved	MW-35	11/16/2021		5.4	mg/L		
Sodium, dissolved	MW-35	11/17/2022		5.2	mg/L		
Sodium, dissolved	MW-35	11/08/2023		5.1	mg/L		
Sodium, dissolved	MW-35	11/14/2024		5.3	mg/L		
Specific conductivity	MW-13A	03/22/2005		0.158	mS/cm		
Specific conductivity	MW-13A	06/15/2005		0.167	mS/cm		
Specific conductivity	MW-13A	09/27/2005		0.161	mS/cm		
Specific conductivity	MW-13A	12/15/2005		0.159	mS/cm		
Specific conductivity	MW-13A	03/28/2006		0.152	mS/cm		
Specific conductivity	MW-13A	06/21/2006		0.169	mS/cm		
Specific conductivity	MW-13A	09/26/2006		0.171	mS/cm		
Specific conductivity	MW-13A	12/13/2006		0.17	mS/cm		
Specific conductivity	MW-13A	03/27/2007		0.167	mS/cm		
Specific conductivity	MW-13A	09/19/2007		0.167	mS/cm		
Specific conductivity	MW-13A	12/19/2007		0.169	mS/cm		
Specific conductivity	MW-13A	03/25/2008		0.166	mS/cm		
Specific conductivity	MW-13A	06/18/2008		0.17	mS/cm		
Specific conductivity	MW-13A	09/17/2008		0.168	mS/cm		
Specific conductivity	MW-13A	12/17/2008		0.139	mS/cm		
Specific conductivity	MW-13A	03/24/2009		0.168	mS/cm		
Specific conductivity	MW-13A	06/17/2009		0.174	mS/cm		
Specific conductivity	MW-13A	12/03/2009		0.173	mS/cm		
Specific conductivity	MW-13A	03/25/2010		0.093	mS/cm		
Specific conductivity	MW-13A	06/23/2010		0.145	mS/cm		
Specific conductivity	MW-13A	09/23/2010		0.17	mS/cm		
Specific conductivity	MW-13A	12/08/2010		0.07	mS/cm		
Specific conductivity	MW-13A	03/30/2011		0.151	mS/cm		
Specific conductivity	MW-13A	06/06/2011		0.158	mS/cm		
Specific conductivity	MW-13A	09/27/2011		0.158	mS/cm		
Specific conductivity	MW-13A	12/14/2011		0.176	mS/cm		
Specific conductivity	MW-13A	03/21/2012		0.171	mS/cm		
Specific conductivity	MW-13A	06/08/2012		0.18	mS/cm		
Specific conductivity	MW-13A	09/26/2012		0.15	mS/cm		
Specific conductivity	MW-13A	12/03/2012		0.107	mS/cm		
Specific conductivity	MW-13A	03/11/2013		0.145	mS/cm		
Specific conductivity	MW-13A	06/05/2013		0.147	mS/cm		
Specific conductivity	MW-13A	12/03/2013		0.156	mS/cm		
Specific conductivity	MW-13A	03/04/2014		0.141	mS/cm		
Specific conductivity	MW-13A	06/02/2014		0.154	mS/cm		
Specific conductivity	MW-13A	09/22/2014		0.166	mS/cm		
Specific conductivity	MW-13A	11/17/2014		0.172	mS/cm		
Specific conductivity	MW-13A	02/23/2015		0.165	mS/cm		
Specific conductivity	MW-13A	05/19/2015		0.164	mS/cm		
Specific conductivity	MW-13A	08/26/2015		0.166	mS/cm		
Specific conductivity	MW-13A	11/10/2015		0.169	mS/cm		
Specific conductivity	MW-13A	02/22/2016		0.177	mS/cm		
Specific conductivity	MW-13A	05/16/2016		0.169	mS/cm		
Specific conductivity	MW-13A	08/31/2016		0.171	mS/cm		
Specific conductivity	MW-13A	11/14/2016		0.169	mS/cm		
Specific conductivity	MW-13A	02/22/2017		0.17	mS/cm		
Specific conductivity	MW-13A	05/24/2017		0.175	mS/cm		
Specific conductivity	MW-13A	08/30/2017		0.175	mS/cm		
Specific conductivity	MW-13A	11/13/2017		0.171	mS/cm		
Specific conductivity	MW-13A	02/20/2018		0.17	mS/cm		
Specific conductivity	MW-13A	05/15/2018		0.17	mS/cm		
Specific conductivity	MW-13A	08/21/2018		0.171	mS/cm		
Specific conductivity	MW-13A	11/12/2018		0.169	mS/cm		
Specific conductivity	MW-13A	05/28/2019		0.169	mS/cm		

* = outlier for that well/constituent
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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Specific conductivity	MW-13A	11/11/2019		0.169	mS/cm		
Specific conductivity	MW-13A	05/26/2020		0.17	mS/cm		
Specific conductivity	MW-13A	11/19/2020		0.168	mS/cm		
Specific conductivity	MW-13A	05/17/2021		0.171	mS/cm		
Specific conductivity	MW-13A	11/16/2021		0.168	mS/cm		
Specific conductivity	MW-13A	05/10/2022		0.166	mS/cm		
Specific conductivity	MW-13A	11/17/2022		0.166	mS/cm		
Specific conductivity	MW-13A	05/23/2023		0.175	mS/cm		
Specific conductivity	MW-13A	11/08/2023		0.175	mS/cm		
Specific conductivity	MW-13A	05/14/2024		0.17	mS/cm		
Specific conductivity	MW-13A	11/14/2024		0.239	mS/cm		
Specific conductivity	MW-13B	03/22/2005		0.155	mS/cm		
Specific conductivity	MW-13B	06/15/2005		0.165	mS/cm		
Specific conductivity	MW-13B	09/27/2005		0.159	mS/cm		
Specific conductivity	MW-13B	12/15/2005		0.157	mS/cm		
Specific conductivity	MW-13B	03/29/2006		0.151	mS/cm		
Specific conductivity	MW-13B	06/21/2006		0.165	mS/cm		
Specific conductivity	MW-13B	09/26/2006		0.168	mS/cm		
Specific conductivity	MW-13B	12/13/2006		0.165	mS/cm		
Specific conductivity	MW-13B	03/27/2007		0.161	mS/cm		
Specific conductivity	MW-13B	09/18/2007		0.168	mS/cm		
Specific conductivity	MW-13B	12/19/2007		0.164	mS/cm		
Specific conductivity	MW-13B	03/25/2008		0.162	mS/cm		
Specific conductivity	MW-13B	06/18/2008		0.165	mS/cm		
Specific conductivity	MW-13B	09/17/2008		0.164	mS/cm		
Specific conductivity	MW-13B	12/16/2008		0.163	mS/cm		
Specific conductivity	MW-13B	03/24/2009		0.167	mS/cm		
Specific conductivity	MW-13B	06/17/2009		0.169	mS/cm		
Specific conductivity	MW-13B	12/03/2009		0.167	mS/cm		
Specific conductivity	MW-13B	03/25/2010		0.09	mS/cm		
Specific conductivity	MW-13B	06/23/2010		0.141	mS/cm		
Specific conductivity	MW-13B	09/23/2010		0.162	mS/cm		
Specific conductivity	MW-13B	12/08/2010		0.073	mS/cm		
Specific conductivity	MW-13B	03/30/2011		0.144	mS/cm		
Specific conductivity	MW-13B	06/06/2011		0.135	mS/cm		
Specific conductivity	MW-13B	09/27/2011		0.151	mS/cm		
Specific conductivity	MW-13B	12/14/2011		0.169	mS/cm		
Specific conductivity	MW-13B	03/21/2012		0.165	mS/cm		
Specific conductivity	MW-13B	06/08/2012		0.175	mS/cm		
Specific conductivity	MW-13B	09/26/2012		0.148	mS/cm		
Specific conductivity	MW-13B	12/03/2012		0.14	mS/cm		
Specific conductivity	MW-13B	03/11/2013		0.144	mS/cm		
Specific conductivity	MW-13B	06/05/2013		0.144	mS/cm		
Specific conductivity	MW-13B	12/03/2013		0.154	mS/cm		
Specific conductivity	MW-13B	03/04/2014		0.139	mS/cm		
Specific conductivity	MW-13B	06/02/2014		0.154	mS/cm		
Specific conductivity	MW-13B	09/22/2014		0.167	mS/cm		
Specific conductivity	MW-13B	11/17/2014		0.172	mS/cm		
Specific conductivity	MW-13B	02/23/2015		0.164	mS/cm		
Specific conductivity	MW-13B	05/19/2015		0.165	mS/cm		
Specific conductivity	MW-13B	08/26/2015		0.164	mS/cm		
Specific conductivity	MW-13B	11/10/2015		0.169	mS/cm		
Specific conductivity	MW-13B	02/22/2016		0.176	mS/cm		
Specific conductivity	MW-13B	05/16/2016		0.168	mS/cm		
Specific conductivity	MW-13B	08/31/2016		0.171	mS/cm		
Specific conductivity	MW-13B	11/14/2016		0.171	mS/cm		
Specific conductivity	MW-13B	02/22/2017		0.171	mS/cm		
Specific conductivity	MW-13B	05/24/2017		0.175	mS/cm		
Specific conductivity	MW-13B	08/30/2017		0.178	mS/cm		
Specific conductivity	MW-13B	11/13/2017		0.17	mS/cm		
Specific conductivity	MW-13B	02/20/2018		0.17	mS/cm		
Specific conductivity	MW-13B	05/15/2018		0.171	mS/cm		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Specific conductivity	MW-13B	08/21/2018		0.175	mS/cm		
Specific conductivity	MW-13B	11/12/2018		0.174	mS/cm		
Specific conductivity	MW-13B	05/28/2019		0.176	mS/cm		
Specific conductivity	MW-13B	11/11/2019		0.175	mS/cm		
Specific conductivity	MW-13B	05/26/2020		0.175	mS/cm		
Specific conductivity	MW-13B	11/19/2020		0.17	mS/cm		
Specific conductivity	MW-13B	05/17/2021		0.172	mS/cm		
Specific conductivity	MW-13B	11/16/2021		0.167	mS/cm		
Specific conductivity	MW-13B	05/10/2022		0.165	mS/cm		
Specific conductivity	MW-13B	11/17/2022		0.162	mS/cm		
Specific conductivity	MW-13B	05/23/2023		0.173	mS/cm		
Specific conductivity	MW-13B	11/08/2023		0.173	mS/cm		
Specific conductivity	MW-13B	05/14/2024		0.169	mS/cm		
Specific conductivity	MW-13B	11/14/2024		0.236	mS/cm		
Specific conductivity	MW-16	03/24/2009		0.135	mS/cm		
Specific conductivity	MW-16	06/16/2009		0.123	mS/cm		
Specific conductivity	MW-16	12/03/2009		0.16	mS/cm		
Specific conductivity	MW-16	03/25/2010		0.118	mS/cm		
Specific conductivity	MW-16	06/24/2010		0.155	mS/cm		
Specific conductivity	MW-16	09/24/2010		0.148	mS/cm		
Specific conductivity	MW-16	12/09/2010		0.15	mS/cm		
Specific conductivity	MW-16	03/30/2011		0.102	mS/cm		
Specific conductivity	MW-16	06/07/2011		0.096	mS/cm		
Specific conductivity	MW-16	09/27/2011		0.068	mS/cm		
Specific conductivity	MW-16	12/13/2011		0.12	mS/cm		
Specific conductivity	MW-16	03/21/2012		0.079	mS/cm		
Specific conductivity	MW-16	06/08/2012		0.118	mS/cm		
Specific conductivity	MW-16	09/27/2012		0.106	mS/cm		
Specific conductivity	MW-16	12/04/2012		0.085	mS/cm		
Specific conductivity	MW-16	03/12/2013		0.118	mS/cm		
Specific conductivity	MW-16	06/04/2013		0.103	mS/cm		
Specific conductivity	MW-16	09/05/2013		0.11	mS/cm		
Specific conductivity	MW-16	12/16/2013		0.096	mS/cm		
Specific conductivity	MW-16	03/05/2014		0.099	mS/cm		
Specific conductivity	MW-16	06/02/2014		0.094	mS/cm		
Specific conductivity	MW-16	09/22/2014		0.122	mS/cm		
Specific conductivity	MW-16	11/18/2014		0.126	mS/cm		
Specific conductivity	MW-16	02/23/2015		0.08	mS/cm		
Specific conductivity	MW-16	05/20/2015		0.101	mS/cm		
Specific conductivity	MW-16	08/26/2015		0.097	mS/cm		
Specific conductivity	MW-16	11/11/2015		0.136	mS/cm		
Specific conductivity	MW-16	02/24/2016		0.091	mS/cm		
Specific conductivity	MW-16	05/16/2016		0.102	mS/cm		
Specific conductivity	MW-16	08/31/2016		0.123	mS/cm		
Specific conductivity	MW-16	11/14/2016		0.11	mS/cm		
Specific conductivity	MW-16	02/22/2017		0.097	mS/cm		
Specific conductivity	MW-16	05/24/2017		0.047	mS/cm		
Specific conductivity	MW-16	08/30/2017		0.114	mS/cm		
Specific conductivity	MW-16	11/13/2017		0.104	mS/cm		
Specific conductivity	MW-16	02/20/2018		0.095	mS/cm		
Specific conductivity	MW-16	05/17/2018		0.097	mS/cm		
Specific conductivity	MW-16	08/22/2018		0.106	mS/cm		
Specific conductivity	MW-16	11/12/2018		0.112	mS/cm		
Specific conductivity	MW-16	05/29/2019		0.108	mS/cm		
Specific conductivity	MW-16	11/12/2019		0.136	mS/cm		
Specific conductivity	MW-16	05/27/2020		0.121	mS/cm		
Specific conductivity	MW-16	11/20/2020		0.151	mS/cm		
Specific conductivity	MW-16	05/17/2021		0.123	mS/cm		
Specific conductivity	MW-16	11/16/2021		0.147	mS/cm		
Specific conductivity	MW-16	05/11/2022		0.112	mS/cm		
Specific conductivity	MW-16	11/17/2022		0.115	mS/cm		
Specific conductivity	MW-16	05/23/2023		0.123	mS/cm		

* = outlier for that well/constituent
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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Specific conductivity	MW-16	11/08/2023		0.124	mS/cm		
Specific conductivity	MW-16	05/14/2024		0.103	mS/cm		
Specific conductivity	MW-16	11/14/2024		0.189	mS/cm		
Specific conductivity	MW-35	03/22/2005		0.143	mS/cm		
Specific conductivity	MW-35	06/14/2005		0.153	mS/cm		
Specific conductivity	MW-35	09/27/2005		0.148	mS/cm		
Specific conductivity	MW-35	12/15/2005		0.145	mS/cm		
Specific conductivity	MW-35	03/28/2006		0.136	mS/cm		
Specific conductivity	MW-35	06/21/2006		0.152	mS/cm		
Specific conductivity	MW-35	09/26/2006		0.155	mS/cm		
Specific conductivity	MW-35	12/12/2006		0.151	mS/cm		
Specific conductivity	MW-35	03/27/2007		0.148	mS/cm		
Specific conductivity	MW-35	09/18/2007		0.152	mS/cm		
Specific conductivity	MW-35	12/20/2007		0.152	mS/cm		
Specific conductivity	MW-35	03/25/2008		0.147	mS/cm		
Specific conductivity	MW-35	06/18/2008		0.151	mS/cm		
Specific conductivity	MW-35	09/18/2008		0.142	mS/cm		
Specific conductivity	MW-35	12/19/2008		0.144	mS/cm		
Specific conductivity	MW-35	03/24/2009		0.15	mS/cm		
Specific conductivity	MW-35	06/16/2009		0.155	mS/cm		
Specific conductivity	MW-35	12/03/2009		0.152	mS/cm		
Specific conductivity	MW-35	03/25/2010		0.084	mS/cm		
Specific conductivity	MW-35	06/23/2010		0.128	mS/cm		
Specific conductivity	MW-35	09/23/2010		0.151	mS/cm		
Specific conductivity	MW-35	12/09/2010		0.15	mS/cm		
Specific conductivity	MW-35	03/30/2011		0.132	mS/cm		
Specific conductivity	MW-35	06/06/2011		0.123	mS/cm		
Specific conductivity	MW-35	09/26/2011		0.131	mS/cm		
Specific conductivity	MW-35	12/13/2011		0.148	mS/cm		
Specific conductivity	MW-35	03/21/2012		0.152	mS/cm		
Specific conductivity	MW-35	06/06/2012		0.138	mS/cm		
Specific conductivity	MW-35	09/26/2012		0.135	mS/cm		
Specific conductivity	MW-35	12/04/2012		0.148	mS/cm		
Specific conductivity	MW-35	03/13/2013		0.132	mS/cm		
Specific conductivity	MW-35	06/06/2013		0.133	mS/cm		
Specific conductivity	MW-35	09/05/2013		0.132	mS/cm		
Specific conductivity	MW-35	12/16/2013		0.121	mS/cm		
Specific conductivity	MW-35	03/04/2014		0.129	mS/cm		
Specific conductivity	MW-35	06/02/2014		0.14	mS/cm		
Specific conductivity	MW-35	09/22/2014		0.161	mS/cm		
Specific conductivity	MW-35	11/17/2014		0.16	mS/cm		
Specific conductivity	MW-35	02/25/2015		0.152	mS/cm		
Specific conductivity	MW-35	05/19/2015		0.135	mS/cm		
Specific conductivity	MW-35	08/26/2015		0.153	mS/cm		
Specific conductivity	MW-35	11/10/2015		0.156	mS/cm		
Specific conductivity	MW-35	02/22/2016		0.164	mS/cm		
Specific conductivity	MW-35	05/16/2016		0.156	mS/cm		
Specific conductivity	MW-35	08/31/2016		0.159	mS/cm		
Specific conductivity	MW-35	11/15/2016		0.158	mS/cm		
Specific conductivity	MW-35	02/22/2017		0.161	mS/cm		
Specific conductivity	MW-35	05/24/2017		0.166	mS/cm		
Specific conductivity	MW-35	08/30/2017		0.167	mS/cm		
Specific conductivity	MW-35	11/15/2017		0.161	mS/cm		
Specific conductivity	MW-35	02/20/2018		0.161	mS/cm		
Specific conductivity	MW-35	05/17/2018		0.164	mS/cm		
Specific conductivity	MW-35	08/22/2018		0.16	mS/cm		
Specific conductivity	MW-35	11/12/2018		0.164	mS/cm		
Specific conductivity	MW-35	05/29/2019		0.169	mS/cm		
Specific conductivity	MW-35	11/12/2019		0.166	mS/cm		
Specific conductivity	MW-35	05/27/2020		0.168	mS/cm		
Specific conductivity	MW-35	11/19/2020		0.156	mS/cm		
Specific conductivity	MW-35	05/17/2021		0.159	mS/cm		

* = outlier for that well/constituent
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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Specific conductivity	MW-35	11/16/2021		0.169	mS/cm		
Specific conductivity	MW-35	05/10/2022		0.169	mS/cm		
Specific conductivity	MW-35	11/17/2022		0.156	mS/cm		
Specific conductivity	MW-35	05/23/2023		0.186	mS/cm		
Specific conductivity	MW-35	11/08/2023		0.16	mS/cm		
Specific conductivity	MW-35	05/14/2024		0.161	mS/cm		
Specific conductivity	MW-35	11/14/2024		0.226	mS/cm		
Sulfate	MW-13A	03/22/2005		2.8	mg/L		
Sulfate	MW-13A	06/15/2005		2.9	mg/L		
Sulfate	MW-13A	09/27/2005		3.2	mg/L		
Sulfate	MW-13A	12/15/2005		2.1	mg/L		
Sulfate	MW-13A	03/28/2006		3.2	mg/L		
Sulfate	MW-13A	06/21/2006		3.1	mg/L		
Sulfate	MW-13A	09/26/2006		2.5	mg/L		
Sulfate	MW-13A	12/13/2006		2.3	mg/L		
Sulfate	MW-13A	03/27/2007		2.5	mg/L		
Sulfate	MW-13A	06/19/2007		2.5	mg/L		
Sulfate	MW-13A	09/19/2007		2.5	mg/L		
Sulfate	MW-13A	12/19/2007		2.5	mg/L		
Sulfate	MW-13A	03/25/2008		2.4	mg/L		
Sulfate	MW-13A	06/18/2008		2.6	mg/L		
Sulfate	MW-13A	09/17/2008		2.4	mg/L		
Sulfate	MW-13A	12/17/2008		2.4	mg/L		
Sulfate	MW-13A	03/24/2009		2.5	mg/L		
Sulfate	MW-13A	06/17/2009		2.1	mg/L		
Sulfate	MW-13A	09/10/2009		2.2	mg/L		
Sulfate	MW-13A	12/03/2009		2.3	mg/L		
Sulfate	MW-13A	03/25/2010		2.3	mg/L		
Sulfate	MW-13A	06/23/2010		2.1	mg/L		
Sulfate	MW-13A	09/23/2010		2.3	mg/L		
Sulfate	MW-13A	12/08/2010		3.7	mg/L		
Sulfate	MW-13A	03/30/2011		2.2	mg/L		
Sulfate	MW-13A	06/06/2011		2.2	mg/L		
Sulfate	MW-13A	09/27/2011		2.3	mg/L		
Sulfate	MW-13A	12/14/2011		2.5	mg/L		
Sulfate	MW-13A	03/21/2012		1.9	mg/L		
Sulfate	MW-13A	06/08/2012		2.1	mg/L		
Sulfate	MW-13A	09/26/2012		2.1	mg/L		
Sulfate	MW-13A	12/03/2012		2.2	mg/L		
Sulfate	MW-13A	03/11/2013		1.9	mg/L		
Sulfate	MW-13A	06/05/2013		1.7	mg/L		
Sulfate	MW-13A	12/03/2013		1.6	mg/L		
Sulfate	MW-13A	03/04/2014		2.1	mg/L		
Sulfate	MW-13A	06/02/2014		2.2	mg/L		
Sulfate	MW-13A	09/22/2014		2.2	mg/L		
Sulfate	MW-13A	11/17/2014		2.1	mg/L		
Sulfate	MW-13A	02/23/2015		2.1	mg/L		
Sulfate	MW-13A	05/19/2015		2.1	mg/L		
Sulfate	MW-13A	08/26/2015		2.3	mg/L		
Sulfate	MW-13A	11/10/2015		2.1	mg/L		
Sulfate	MW-13A	02/22/2016		2.1	mg/L		
Sulfate	MW-13A	05/16/2016		2.2	mg/L		
Sulfate	MW-13A	08/31/2016		2.3	mg/L		
Sulfate	MW-13A	11/14/2016		2	mg/L		
Sulfate	MW-13A	02/22/2017		2	mg/L		
Sulfate	MW-13A	05/24/2017		2.1	mg/L		
Sulfate	MW-13A	08/30/2017		1.8	mg/L		
Sulfate	MW-13A	11/13/2017		1.8	mg/L		
Sulfate	MW-13A	02/20/2018		2.1	mg/L		
Sulfate	MW-13A	05/15/2018		2	mg/L		
Sulfate	MW-13A	08/21/2018		1.8	mg/L		
Sulfate	MW-13A	11/12/2018		2.1	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Sulfate	MW-13A	11/11/2019	ND	5	mg/L		
Sulfate	MW-13A	11/19/2020	ND	5	mg/L		
Sulfate	MW-13A	11/16/2021	ND	5	mg/L		
Sulfate	MW-13A	11/17/2022	ND	5	mg/L		
Sulfate	MW-13A	11/08/2023	ND	5	mg/L		
Sulfate	MW-13A	11/14/2024	ND	5	mg/L		
Sulfate	MW-13B	03/22/2005		4.6	mg/L		
Sulfate	MW-13B	06/15/2005		4.7	mg/L		
Sulfate	MW-13B	09/27/2005		4.5	mg/L		
Sulfate	MW-13B	12/15/2005		3.6	mg/L		
Sulfate	MW-13B	03/29/2006		4.5	mg/L		
Sulfate	MW-13B	06/21/2006		4.4	mg/L		
Sulfate	MW-13B	09/26/2006		4.1	mg/L		
Sulfate	MW-13B	12/13/2006		3.9	mg/L		
Sulfate	MW-13B	03/27/2007		4.1	mg/L		
Sulfate	MW-13B	06/19/2007		4.1	mg/L		
Sulfate	MW-13B	09/18/2007		4.2	mg/L		
Sulfate	MW-13B	12/19/2007		4.1	mg/L		
Sulfate	MW-13B	03/25/2008		4	mg/L		
Sulfate	MW-13B	06/18/2008		4.1	mg/L		
Sulfate	MW-13B	09/17/2008		4.2	mg/L		
Sulfate	MW-13B	12/16/2008		4.2	mg/L		
Sulfate	MW-13B	03/24/2009		4.2	mg/L		
Sulfate	MW-13B	06/17/2009		3.7	mg/L		
Sulfate	MW-13B	09/10/2009		3.7	mg/L		
Sulfate	MW-13B	12/03/2009		4.1	mg/L		
Sulfate	MW-13B	03/25/2010		3.9	mg/L		
Sulfate	MW-13B	06/23/2010		3.6	mg/L		
Sulfate	MW-13B	09/23/2010		3.8	mg/L		
Sulfate	MW-13B	12/08/2010		2.4	mg/L		
Sulfate	MW-13B	03/30/2011		4.4	mg/L		
Sulfate	MW-13B	06/06/2011		3.7	mg/L		
Sulfate	MW-13B	09/27/2011		3.7	mg/L		
Sulfate	MW-13B	12/14/2011		3.5	mg/L		
Sulfate	MW-13B	03/21/2012		3.2	mg/L		
Sulfate	MW-13B	06/08/2012		3.5	mg/L		
Sulfate	MW-13B	09/26/2012		3.6	mg/L		
Sulfate	MW-13B	12/03/2012		3.5	mg/L		
Sulfate	MW-13B	03/11/2013		3	mg/L		
Sulfate	MW-13B	06/05/2013		3.5	mg/L		
Sulfate	MW-13B	12/03/2013		3.1	mg/L		
Sulfate	MW-13B	03/04/2014		3.7	mg/L		
Sulfate	MW-13B	06/02/2014		3.6	mg/L		
Sulfate	MW-13B	09/22/2014		4.1	mg/L		
Sulfate	MW-13B	11/17/2014		3.7	mg/L		
Sulfate	MW-13B	02/23/2015		3.4	mg/L		
Sulfate	MW-13B	05/19/2015		3.1	mg/L		
Sulfate	MW-13B	08/26/2015		3.7	mg/L		
Sulfate	MW-13B	11/10/2015		3.2	mg/L		
Sulfate	MW-13B	02/22/2016		3.4	mg/L		
Sulfate	MW-13B	05/16/2016		3.5	mg/L		
Sulfate	MW-13B	08/31/2016		3.7	mg/L		
Sulfate	MW-13B	11/14/2016		3	mg/L		
Sulfate	MW-13B	02/22/2017		3.5	mg/L		
Sulfate	MW-13B	05/24/2017		3.4	mg/L		
Sulfate	MW-13B	08/30/2017		3.8	mg/L		
Sulfate	MW-13B	11/13/2017		2.9	mg/L		
Sulfate	MW-13B	02/20/2018		3	mg/L		
Sulfate	MW-13B	05/15/2018		3.1	mg/L		
Sulfate	MW-13B	08/21/2018		2.9	mg/L		
Sulfate	MW-13B	11/12/2018		3	mg/L		
Sulfate	MW-13B	11/11/2019	ND	5	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Sulfate	MW-13B	11/19/2020	ND	5	mg/L		
Sulfate	MW-13B	11/16/2021	ND	5	mg/L		
Sulfate	MW-13B	11/17/2022	ND	5	mg/L		
Sulfate	MW-13B	11/08/2023	ND	5	mg/L		
Sulfate	MW-13B	11/14/2024	ND	5	mg/L		
Sulfate	MW-16	03/24/2009		3	mg/L		
Sulfate	MW-16	06/16/2009		2.2	mg/L		
Sulfate	MW-16	09/09/2009		4.3	mg/L		
Sulfate	MW-16	12/03/2009		3.6	mg/L		
Sulfate	MW-16	03/25/2010		9.9	mg/L		
Sulfate	MW-16	06/24/2010		2.5	mg/L		
Sulfate	MW-16	09/24/2010		2.3	mg/L		
Sulfate	MW-16	12/09/2010		2.7	mg/L		
Sulfate	MW-16	03/30/2011		7.1	mg/L		
Sulfate	MW-16	06/07/2011		2.4	mg/L		
Sulfate	MW-16	09/27/2011		4.1	mg/L		
Sulfate	MW-16	12/13/2011		2.3	mg/L		
Sulfate	MW-16	03/21/2012		1.6	mg/L		
Sulfate	MW-16	06/08/2012		3	mg/L		
Sulfate	MW-16	09/27/2012		3.1	mg/L		
Sulfate	MW-16	12/04/2012		3	mg/L		
Sulfate	MW-16	03/12/2013		1.9	mg/L		
Sulfate	MW-16	06/04/2013		2.7	mg/L		
Sulfate	MW-16	09/05/2013		1.7	mg/L		
Sulfate	MW-16	12/16/2013		2.3	mg/L		
Sulfate	MW-16	03/05/2014		2.8	mg/L		
Sulfate	MW-16	06/02/2014		3.8	mg/L		
Sulfate	MW-16	09/22/2014		2.9	mg/L		
Sulfate	MW-16	11/18/2014		3.3	mg/L		
Sulfate	MW-16	02/23/2015		2.9	mg/L		
Sulfate	MW-16	05/20/2015		2.1	mg/L		
Sulfate	MW-16	08/26/2015		3.4	mg/L		
Sulfate	MW-16	11/11/2015		2.8	mg/L		
Sulfate	MW-16	02/24/2016		2.9	mg/L		
Sulfate	MW-16	05/16/2016		2.6	mg/L		
Sulfate	MW-16	08/31/2016		1.7	mg/L		
Sulfate	MW-16	11/14/2016		1.6	mg/L		
Sulfate	MW-16	02/22/2017		2.5	mg/L		
Sulfate	MW-16	05/24/2017		2.7	mg/L		
Sulfate	MW-16	08/30/2017		1.6	mg/L		
Sulfate	MW-16	11/13/2017		1	mg/L		
Sulfate	MW-16	02/20/2018		2.2	mg/L		
Sulfate	MW-16	05/17/2018		2.3	mg/L		
Sulfate	MW-16	08/22/2018		2.1	mg/L		
Sulfate	MW-16	11/12/2018		1.6	mg/L		
Sulfate	MW-16	11/12/2019	ND	5	mg/L		
Sulfate	MW-16	11/20/2020	ND	5	mg/L		
Sulfate	MW-16	11/16/2021	ND	5	mg/L		
Sulfate	MW-16	11/17/2022	ND	5	mg/L		
Sulfate	MW-16	11/08/2023	ND	5	mg/L		
Sulfate	MW-16	11/14/2024	ND	5	mg/L		
Sulfate	MW-35	03/22/2005		2.5	mg/L		
Sulfate	MW-35	06/14/2005		1.6	mg/L		
Sulfate	MW-35	09/27/2005		1.3	mg/L		
Sulfate	MW-35	12/15/2005	ND	1	mg/L	5	**
Sulfate	MW-35	03/28/2006		3	mg/L		
Sulfate	MW-35	06/21/2006		3	mg/L		
Sulfate	MW-35	09/26/2006		2.4	mg/L		
Sulfate	MW-35	12/12/2006		2.2	mg/L		
Sulfate	MW-35	03/27/2007		2.5	mg/L		
Sulfate	MW-35	06/20/2007		2.4	mg/L		
Sulfate	MW-35	09/18/2007		2.6	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Sulfate	MW-35	12/20/2007		2.4	mg/L		
Sulfate	MW-35	03/25/2008		2.4	mg/L		
Sulfate	MW-35	06/18/2008		2.6	mg/L		
Sulfate	MW-35	09/18/2008		2.3	mg/L		
Sulfate	MW-35	12/19/2008		2.6	mg/L		
Sulfate	MW-35	03/24/2009		2.7	mg/L		
Sulfate	MW-35	06/16/2009		2.2	mg/L		
Sulfate	MW-35	09/10/2009		2.4	mg/L		
Sulfate	MW-35	12/03/2009		2.5	mg/L		
Sulfate	MW-35	03/25/2010		2.6	mg/L		
Sulfate	MW-35	06/23/2010		2.3	mg/L		
Sulfate	MW-35	09/23/2010		2.5	mg/L		
Sulfate	MW-35	12/09/2010		2.2	mg/L		
Sulfate	MW-35	03/30/2011		2.6	mg/L		
Sulfate	MW-35	06/06/2011		2.5	mg/L		
Sulfate	MW-35	09/26/2011		2.6	mg/L		
Sulfate	MW-35	12/13/2011		2.5	mg/L		
Sulfate	MW-35	03/21/2012		2.1	mg/L		
Sulfate	MW-35	06/06/2012		2.4	mg/L		
Sulfate	MW-35	09/26/2012		2.4	mg/L		
Sulfate	MW-35	12/04/2012		2.5	mg/L		
Sulfate	MW-35	03/13/2013		2.3	mg/L		
Sulfate	MW-35	06/06/2013		2	mg/L		
Sulfate	MW-35	09/05/2013		2.1	mg/L		
Sulfate	MW-35	12/16/2013		2.6	mg/L		
Sulfate	MW-35	03/04/2014		2.7	mg/L		
Sulfate	MW-35	06/02/2014		2.5	mg/L		
Sulfate	MW-35	09/22/2014		3.2	mg/L		
Sulfate	MW-35	11/17/2014		2.5	mg/L		
Sulfate	MW-35	02/25/2015		2.4	mg/L		
Sulfate	MW-35	05/19/2015		2.3	mg/L		
Sulfate	MW-35	08/26/2015		2.4	mg/L		
Sulfate	MW-35	11/10/2015		2.5	mg/L		
Sulfate	MW-35	02/22/2016		2.6	mg/L		
Sulfate	MW-35	05/16/2016		2.5	mg/L		
Sulfate	MW-35	08/31/2016		2.8	mg/L		
Sulfate	MW-35	11/15/2016		2.2	mg/L		
Sulfate	MW-35	02/22/2017		2.5	mg/L		
Sulfate	MW-35	05/24/2017		2.3	mg/L		
Sulfate	MW-35	08/30/2017		2.2	mg/L		
Sulfate	MW-35	11/15/2017		2.8	mg/L		
Sulfate	MW-35	02/20/2018		2.3	mg/L		
Sulfate	MW-35	05/17/2018		2.2	mg/L		
Sulfate	MW-35	08/22/2018		2.6	mg/L		
Sulfate	MW-35	11/12/2018		2.3	mg/L		
Sulfate	MW-35	11/12/2019	ND	5	mg/L		
Sulfate	MW-35	11/19/2020	ND	5	mg/L		
Sulfate	MW-35	11/16/2021	ND	5	mg/L		
Sulfate	MW-35	11/17/2022	ND	5	mg/L		
Sulfate	MW-35	11/08/2023	ND	5	mg/L		
Sulfate	MW-35	11/14/2024	ND	5	mg/L		
Temperature	MW-13A	03/22/2005		9.08	deg C		
Temperature	MW-13A	06/15/2005		9.37	deg C		
Temperature	MW-13A	09/27/2005		9.65	deg C		
Temperature	MW-13A	12/15/2005		8.6	deg C		
Temperature	MW-13A	03/28/2006		9.44	deg C		
Temperature	MW-13A	06/21/2006		9.41	deg C		
Temperature	MW-13A	09/26/2006		9.71	deg C		
Temperature	MW-13A	12/13/2006		8.79	deg C		
Temperature	MW-13A	03/27/2007		9.14	deg C		
Temperature	MW-13A	09/19/2007		9.26	deg C		
Temperature	MW-13A	12/19/2007		8.17	deg C		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Temperature	MW-13A	03/25/2008		8.47	deg C		
Temperature	MW-13A	06/18/2008		9.3	deg C		
Temperature	MW-13A	09/17/2008		8.8	deg C		
Temperature	MW-13A	12/17/2008		8.75	deg C		
Temperature	MW-13A	03/24/2009		8.32	deg C		
Temperature	MW-13A	06/17/2009		9.85	deg C		
Temperature	MW-13A	12/03/2009		8.92	deg C		
Temperature	MW-13A	03/25/2010		9.22	deg C		
Temperature	MW-13A	06/23/2010		9.58	deg C		
Temperature	MW-13A	09/23/2010		9.42	deg C		
Temperature	MW-13A	12/08/2010		9.45	deg C		
Temperature	MW-13A	03/30/2011		9.37	deg C		
Temperature	MW-13A	06/06/2011		10.4	deg C		
Temperature	MW-13A	09/27/2011		9.58	deg C		
Temperature	MW-13A	12/14/2011		8.92	deg C		
Temperature	MW-13A	03/21/2012		8.74	deg C		
Temperature	MW-13A	06/08/2012		9.3	deg C		
Temperature	MW-13A	09/26/2012		10.04	deg C		
Temperature	MW-13A	12/03/2012		9.2	deg C		
Temperature	MW-13A	03/11/2013		9.22	deg C		
Temperature	MW-13A	06/05/2013		11.96	deg C		
Temperature	MW-13A	12/03/2013		8.93	deg C		
Temperature	MW-13A	03/04/2014		8.98	deg C		
Temperature	MW-13A	06/02/2014		11.15	deg C		
Temperature	MW-13A	09/22/2014		10.58	deg C		
Temperature	MW-13A	11/17/2014		9.4	deg C		
Temperature	MW-13A	02/23/2015		9.41	deg C		
Temperature	MW-13A	05/19/2015		9.89	deg C		
Temperature	MW-13A	08/26/2015		10.69	deg C		
Temperature	MW-13A	11/10/2015		9.49	deg C		
Temperature	MW-13A	02/22/2016		9.59	deg C		
Temperature	MW-13A	05/16/2016		9.77	deg C		
Temperature	MW-13A	08/31/2016		9.98	deg C		
Temperature	MW-13A	11/14/2016		9.57	deg C		
Temperature	MW-13A	02/22/2017		9.11	deg C		
Temperature	MW-13A	05/24/2017		4.59	deg C		
Temperature	MW-13A	08/30/2017		9.85	deg C		
Temperature	MW-13A	11/13/2017		9.41	deg C		
Temperature	MW-13A	02/20/2018		9.07	deg C		
Temperature	MW-13A	05/15/2018		9.63	deg C		
Temperature	MW-13A	08/21/2018		9.58	deg C		
Temperature	MW-13A	11/12/2018		9.5	deg C		
Temperature	MW-13A	05/28/2019		9.5	deg C		
Temperature	MW-13A	11/11/2019		9.24	deg C		
Temperature	MW-13A	05/26/2020		9.45	deg C		
Temperature	MW-13A	11/19/2020		9.4	deg C		
Temperature	MW-13A	05/17/2021		9.6	deg C		
Temperature	MW-13A	11/16/2021		9.4	deg C		
Temperature	MW-13A	05/10/2022		9.7	deg C		
Temperature	MW-13A	11/17/2022		9.6	deg C		
Temperature	MW-13A	05/23/2023		9.8	deg C		
Temperature	MW-13A	11/08/2023		9.3	deg C		
Temperature	MW-13A	05/14/2024		9.6	deg C		
Temperature	MW-13A	11/14/2024		9.1	deg C		
Temperature	MW-13B	03/22/2005		9.55	deg C		
Temperature	MW-13B	06/15/2005		9.92	deg C		
Temperature	MW-13B	09/27/2005		10.79	deg C		
Temperature	MW-13B	12/15/2005		8.11	deg C		
Temperature	MW-13B	03/29/2006		8.8	deg C		
Temperature	MW-13B	06/21/2006		9.76	deg C		
Temperature	MW-13B	09/26/2006		10.32	deg C		
Temperature	MW-13B	12/13/2006		8.85	deg C		

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Temperature	MW-13B	03/27/2007		9.04	deg C		
Temperature	MW-13B	09/18/2007		10.01	deg C		
Temperature	MW-13B	12/19/2007		8.08	deg C		
Temperature	MW-13B	03/25/2008		8.09	deg C		
Temperature	MW-13B	06/18/2008		9.23	deg C		
Temperature	MW-13B	09/17/2008		9.01	deg C		
Temperature	MW-13B	12/16/2008		8.43	deg C		
Temperature	MW-13B	03/24/2009		8.37	deg C		
Temperature	MW-13B	06/17/2009		10.81	deg C		
Temperature	MW-13B	12/03/2009		8.79	deg C		
Temperature	MW-13B	03/25/2010		9.23	deg C		
Temperature	MW-13B	06/23/2010		9.97	deg C		
Temperature	MW-13B	09/23/2010		9.6	deg C		
Temperature	MW-13B	12/08/2010		9.25	deg C		
Temperature	MW-13B	03/30/2011		9.32	deg C		
Temperature	MW-13B	06/06/2011		11.3	deg C		
Temperature	MW-13B	09/27/2011		10.57	deg C		
Temperature	MW-13B	12/14/2011		8.76	deg C		
Temperature	MW-13B	03/21/2012		8.5	deg C		
Temperature	MW-13B	06/08/2012		9.4	deg C		
Temperature	MW-13B	09/26/2012		10.59	deg C		
Temperature	MW-13B	12/03/2012		9.2	deg C		
Temperature	MW-13B	03/11/2013		9.15	deg C		
Temperature	MW-13B	06/05/2013		11.41	deg C		
Temperature	MW-13B	12/03/2013		9.44	deg C		
Temperature	MW-13B	03/04/2014		9	deg C		
Temperature	MW-13B	06/02/2014		14.32	deg C		
Temperature	MW-13B	09/22/2014		11.02	deg C		
Temperature	MW-13B	11/17/2014		9.4	deg C		
Temperature	MW-13B	02/23/2015		9.76	deg C		
Temperature	MW-13B	05/19/2015		10.23	deg C		
Temperature	MW-13B	08/26/2015		10.53	deg C		
Temperature	MW-13B	11/10/2015		9.59	deg C		
Temperature	MW-13B	02/22/2016		9.3	deg C		
Temperature	MW-13B	05/16/2016		9.93	deg C		
Temperature	MW-13B	08/31/2016		10.43	deg C		
Temperature	MW-13B	11/14/2016		10.41	deg C		
Temperature	MW-13B	02/22/2017		9.06	deg C		
Temperature	MW-13B	05/24/2017		9.76	deg C		
Temperature	MW-13B	08/30/2017		10.27	deg C		
Temperature	MW-13B	11/13/2017		9.54	deg C		
Temperature	MW-13B	02/20/2018		8.82	deg C		
Temperature	MW-13B	05/15/2018		9.98	deg C		
Temperature	MW-13B	08/21/2018		10.14	deg C		
Temperature	MW-13B	11/12/2018		10	deg C		
Temperature	MW-13B	05/28/2019		10.13	deg C		
Temperature	MW-13B	11/11/2019		9.66	deg C		
Temperature	MW-13B	05/26/2020		9.97	deg C		
Temperature	MW-13B	11/19/2020		9.5	deg C		
Temperature	MW-13B	05/17/2021		9.9	deg C		
Temperature	MW-13B	11/16/2021		9.42	deg C		
Temperature	MW-13B	05/10/2022		9.9	deg C		
Temperature	MW-13B	11/17/2022		9.9	deg C		
Temperature	MW-13B	05/23/2023		9.9	deg C		
Temperature	MW-13B	11/08/2023		9.4	deg C		
Temperature	MW-13B	05/14/2024		10	deg C		
Temperature	MW-13B	11/14/2024		9.2	deg C		
Temperature	MW-16	03/24/2009		9.08	deg C		
Temperature	MW-16	06/16/2009		9.98	deg C		
Temperature	MW-16	12/03/2009		9.08	deg C		
Temperature	MW-16	03/25/2010		9.11	deg C		
Temperature	MW-16	06/24/2010		9.39	deg C		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Temperature	MW-16	09/24/2010		9.44	deg C		
Temperature	MW-16	12/09/2010		9.13	deg C		
Temperature	MW-16	03/30/2011		9.14	deg C		
Temperature	MW-16	06/07/2011		9.46	deg C		
Temperature	MW-16	09/27/2011		9.43	deg C		
Temperature	MW-16	12/13/2011		8.84	deg C		
Temperature	MW-16	03/21/2012		8.82	deg C		
Temperature	MW-16	06/08/2012		9.2	deg C		
Temperature	MW-16	09/27/2012		9.06	deg C		
Temperature	MW-16	12/04/2012		9.1	deg C		
Temperature	MW-16	03/12/2013		9.02	deg C		
Temperature	MW-16	06/04/2013		9.47	deg C		
Temperature	MW-16	09/05/2013		9.36	deg C		
Temperature	MW-16	12/16/2013		9.04	deg C		
Temperature	MW-16	03/05/2014		9.4	deg C		
Temperature	MW-16	06/02/2014		9.56	deg C		
Temperature	MW-16	09/22/2014		10.73	deg C		
Temperature	MW-16	11/18/2014		8.9	deg C		
Temperature	MW-16	02/23/2015		9.02	deg C		
Temperature	MW-16	05/20/2015		9.3	deg C		
Temperature	MW-16	08/26/2015		9.48	deg C		
Temperature	MW-16	11/11/2015		9.01	deg C		
Temperature	MW-16	02/24/2016		9.02	deg C		
Temperature	MW-16	05/16/2016		9.38	deg C		
Temperature	MW-16	08/31/2016		9.66	deg C		
Temperature	MW-16	11/14/2016		9.81	deg C		
Temperature	MW-16	02/22/2017		9.01	deg C		
Temperature	MW-16	05/24/2017		9.35	deg C		
Temperature	MW-16	08/30/2017		9.7	deg C		
Temperature	MW-16	11/13/2017		9.3	deg C		
Temperature	MW-16	02/20/2018		8.86	deg C		
Temperature	MW-16	05/17/2018		9.36	deg C		
Temperature	MW-16	08/22/2018		9.86	deg C		
Temperature	MW-16	11/12/2018		9.6	deg C		
Temperature	MW-16	05/29/2019		9.65	deg C		
Temperature	MW-16	11/12/2019		8.95	deg C		
Temperature	MW-16	05/27/2020		9.71	deg C		
Temperature	MW-16	11/20/2020		8.57	deg C		
Temperature	MW-16	05/17/2021		9.49	deg C		
Temperature	MW-16	11/16/2021		9.3	deg C		
Temperature	MW-16	05/11/2022		9.3	deg C		
Temperature	MW-16	11/17/2022		9.2	deg C		
Temperature	MW-16	05/23/2023		9.4	deg C		
Temperature	MW-16	11/08/2023		9.9	deg C		
Temperature	MW-16	05/14/2024		10.4	deg C		
Temperature	MW-16	11/14/2024		9.2	deg C		
Temperature	MW-35	03/22/2005		9.8	deg C		
Temperature	MW-35	06/14/2005		10.28	deg C		
Temperature	MW-35	09/27/2005		10.49	deg C		
Temperature	MW-35	12/15/2005		8.86	deg C		
Temperature	MW-35	03/28/2006		9.53	deg C		
Temperature	MW-35	06/21/2006		10.31	deg C		
Temperature	MW-35	09/26/2006		10.62	deg C		
Temperature	MW-35	12/12/2006		9.26	deg C		
Temperature	MW-35	03/27/2007		9.4	deg C		
Temperature	MW-35	09/18/2007		10.24	deg C		
Temperature	MW-35	12/20/2007		8.69	deg C		
Temperature	MW-35	03/25/2008		8.75	deg C		
Temperature	MW-35	06/18/2008		9.73	deg C		
Temperature	MW-35	09/18/2008		9.98	deg C		
Temperature	MW-35	12/19/2008		8.5	deg C		
Temperature	MW-35	03/24/2009		9.32	deg C		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Temperature	MW-35	06/16/2009		11.76	deg C		
Temperature	MW-35	12/03/2009		9.57	deg C		
Temperature	MW-35	03/25/2010		9.82	deg C		
Temperature	MW-35	06/23/2010		10.07	deg C		
Temperature	MW-35	09/23/2010		10.09	deg C		
Temperature	MW-35	12/09/2010		9.85	deg C		
Temperature	MW-35	03/30/2011		9.72	deg C		
Temperature	MW-35	06/06/2011		10.2	deg C		
Temperature	MW-35	09/26/2011		10.14	deg C		
Temperature	MW-35	12/13/2011		9.41	deg C		
Temperature	MW-35	03/21/2012		9.78	deg C		
Temperature	MW-35	06/06/2012		10.3	deg C		
Temperature	MW-35	09/26/2012		10.2	deg C		
Temperature	MW-35	12/04/2012		9.8	deg C		
Temperature	MW-35	03/13/2013		9.75	deg C		
Temperature	MW-35	06/06/2013		10.83	deg C		
Temperature	MW-35	09/05/2013		10.09	deg C		
Temperature	MW-35	12/16/2013		9.84	deg C		
Temperature	MW-35	03/04/2014		9.76	deg C		
Temperature	MW-35	06/02/2014		11.79	deg C		
Temperature	MW-35	09/22/2014		13.7	deg C		
Temperature	MW-35	11/17/2014		10.4	deg C		
Temperature	MW-35	02/25/2015		9.9	deg C		
Temperature	MW-35	05/19/2015		10.3	deg C		
Temperature	MW-35	08/26/2015		13.09	deg C		
Temperature	MW-35	11/10/2015		10.34	deg C		
Temperature	MW-35	02/22/2016		10.31	deg C		
Temperature	MW-35	05/16/2016		10.12	deg C		
Temperature	MW-35	08/31/2016		10.78	deg C		
Temperature	MW-35	11/15/2016		10.41	deg C		
Temperature	MW-35	02/22/2017		9.95	deg C		
Temperature	MW-35	05/24/2017		9.99	deg C		
Temperature	MW-35	08/30/2017		11.63	deg C		
Temperature	MW-35	11/15/2017		9.83	deg C		
Temperature	MW-35	02/20/2018		9.52	deg C		
Temperature	MW-35	05/17/2018		10.07	deg C		
Temperature	MW-35	08/22/2018		10.48	deg C		
Temperature	MW-35	11/12/2018		10.3	deg C		
Temperature	MW-35	05/29/2019		10.42	deg C		
Temperature	MW-35	11/12/2019		9.73	deg C		
Temperature	MW-35	05/27/2020		9.98	deg C		
Temperature	MW-35	11/19/2020		9.58	deg C		
Temperature	MW-35	05/17/2021		10.16	deg C		
Temperature	MW-35	11/16/2021		10.4	deg C		
Temperature	MW-35	05/10/2022		10.4	deg C		
Temperature	MW-35	11/17/2022		10	deg C		
Temperature	MW-35	05/23/2023		10.5	deg C		
Temperature	MW-35	11/08/2023		10.7	deg C		
Temperature	MW-35	05/14/2024		11.9	deg C		
Temperature	MW-35	11/14/2024		10.1	deg C		
Thallium, total	MW-13A	12/03/2013	ND	0.001	mg/L		
Thallium, total	MW-13A	03/04/2014	ND	0.001	mg/L		
Thallium, total	MW-13A	06/02/2014	ND	0.001	mg/L		
Thallium, total	MW-13A	09/22/2014	ND	0.001	mg/L		
Thallium, total	MW-13A	11/17/2014	ND	0.001	mg/L		
Thallium, total	MW-13A	02/23/2015	ND	0.001	mg/L		
Thallium, total	MW-13A	05/19/2015	ND	0.001	mg/L		
Thallium, total	MW-13A	08/26/2015	ND	0.001	mg/L		
Thallium, total	MW-13A	11/10/2015	ND	0.001	mg/L		
Thallium, total	MW-13A	02/22/2016	ND	0.001	mg/L		
Thallium, total	MW-13A	05/16/2016	ND	0.001	mg/L		
Thallium, total	MW-13A	08/31/2016	ND	0.001	mg/L		

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Thallium, total	MW-13A	11/14/2016	ND	0.001	mg/L		
Thallium, total	MW-13A	02/22/2017	ND	0.001	mg/L		
Thallium, total	MW-13A	05/24/2017	ND	0.001	mg/L		
Thallium, total	MW-13A	08/30/2017	ND	0.001	mg/L		
Thallium, total	MW-13A	11/13/2017	ND	0.001	mg/L		
Thallium, total	MW-13A	02/20/2018	ND	0.001	mg/L		
Thallium, total	MW-13A	05/15/2018	ND	0.001	mg/L		
Thallium, total	MW-13A	08/21/2018	ND	0.001	mg/L		
Thallium, total	MW-13A	11/12/2018	ND	0.001	mg/L		
Thallium, total	MW-13A	11/11/2019	ND	0.001	mg/L		
Thallium, total	MW-13A	11/19/2020	ND	0.001	mg/L		
Thallium, total	MW-13A	11/16/2021	ND	0.001	mg/L		
Thallium, total	MW-13A	11/17/2022	ND	0.001	mg/L		
Thallium, total	MW-13A	11/08/2023	ND	0.001	mg/L		
Thallium, total	MW-13A	11/14/2024	ND	0.001	mg/L		
Thallium, total	MW-13B	12/03/2013	ND	0.001	mg/L		
Thallium, total	MW-13B	03/04/2014	ND	0.001	mg/L		
Thallium, total	MW-13B	06/02/2014	ND	0.001	mg/L		
Thallium, total	MW-13B	09/22/2014	ND	0.001	mg/L		
Thallium, total	MW-13B	11/17/2014	ND	0.001	mg/L		
Thallium, total	MW-13B	02/23/2015	ND	0.001	mg/L		
Thallium, total	MW-13B	05/19/2015	ND	0.001	mg/L		
Thallium, total	MW-13B	08/26/2015	ND	0.001	mg/L		
Thallium, total	MW-13B	11/10/2015	ND	0.001	mg/L		
Thallium, total	MW-13B	02/22/2016	ND	0.001	mg/L		
Thallium, total	MW-13B	05/16/2016	ND	0.001	mg/L		
Thallium, total	MW-13B	08/31/2016	ND	0.001	mg/L		
Thallium, total	MW-13B	11/14/2016	ND	0.001	mg/L		
Thallium, total	MW-13B	02/22/2017	ND	0.001	mg/L		
Thallium, total	MW-13B	05/24/2017	ND	0.001	mg/L		
Thallium, total	MW-13B	08/30/2017	ND	0.001	mg/L		
Thallium, total	MW-13B	11/13/2017	ND	0.001	mg/L		
Thallium, total	MW-13B	02/20/2018	ND	0.001	mg/L		
Thallium, total	MW-13B	05/15/2018	ND	0.001	mg/L		
Thallium, total	MW-13B	08/21/2018	ND	0.001	mg/L		
Thallium, total	MW-13B	11/12/2018	ND	0.001	mg/L		
Thallium, total	MW-13B	11/11/2019	ND	0.001	mg/L		
Thallium, total	MW-13B	11/19/2020	ND	0.001	mg/L		
Thallium, total	MW-13B	11/16/2021	ND	0.001	mg/L		
Thallium, total	MW-13B	11/17/2022	ND	0.001	mg/L		
Thallium, total	MW-13B	11/08/2023	ND	0.001	mg/L		
Thallium, total	MW-13B	11/14/2024	ND	0.001	mg/L		
Thallium, total	MW-16	09/05/2013	ND	0.001	mg/L		
Thallium, total	MW-16	12/16/2013	ND	0.001	mg/L		
Thallium, total	MW-16	03/05/2014	ND	0.001	mg/L		
Thallium, total	MW-16	06/02/2014	ND	0.001	mg/L		
Thallium, total	MW-16	09/22/2014	ND	0.001	mg/L		
Thallium, total	MW-16	11/18/2014	ND	0.001	mg/L		
Thallium, total	MW-16	02/23/2015	ND	0.001	mg/L		
Thallium, total	MW-16	05/20/2015	ND	0.001	mg/L		
Thallium, total	MW-16	08/26/2015	ND	0.001	mg/L		
Thallium, total	MW-16	11/11/2015	ND	0.001	mg/L		
Thallium, total	MW-16	02/24/2016	ND	0.001	mg/L		
Thallium, total	MW-16	05/16/2016	ND	0.001	mg/L		
Thallium, total	MW-16	08/31/2016	ND	0.001	mg/L		
Thallium, total	MW-16	11/14/2016	ND	0.001	mg/L		
Thallium, total	MW-16	02/22/2017	ND	0.001	mg/L		
Thallium, total	MW-16	05/24/2017	ND	0.001	mg/L		
Thallium, total	MW-16	08/30/2017	ND	0.001	mg/L		
Thallium, total	MW-16	11/13/2017	ND	0.001	mg/L		
Thallium, total	MW-16	02/20/2018	ND	0.001	mg/L		
Thallium, total	MW-16	05/17/2018	ND	0.001	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Thallium, total	MW-16	08/22/2018	ND	0.001	mg/L		
Thallium, total	MW-16	11/12/2018	ND	0.001	mg/L		
Thallium, total	MW-16	11/12/2019	ND	0.001	mg/L		
Thallium, total	MW-16	11/20/2020	ND	0.001	mg/L		
Thallium, total	MW-16	11/16/2021	ND	0.001	mg/L		
Thallium, total	MW-16	11/17/2022	ND	0.001	mg/L		
Thallium, total	MW-16	11/08/2023	ND	0.001	mg/L		
Thallium, total	MW-16	11/14/2024	ND	0.001	mg/L		
Thallium, total	MW-35	09/05/2013	ND	0.001	mg/L		
Thallium, total	MW-35	12/16/2013	ND	0.001	mg/L		
Thallium, total	MW-35	03/04/2014	ND	0.001	mg/L		
Thallium, total	MW-35	06/02/2014	ND	0.001	mg/L		
Thallium, total	MW-35	09/22/2014	ND	0.001	mg/L		
Thallium, total	MW-35	11/17/2014	ND	0.001	mg/L		
Thallium, total	MW-35	02/25/2015	ND	0.001	mg/L		
Thallium, total	MW-35	05/19/2015	ND	0.001	mg/L		
Thallium, total	MW-35	08/26/2015	ND	0.001	mg/L		
Thallium, total	MW-35	11/10/2015	ND	0.001	mg/L		
Thallium, total	MW-35	02/22/2016	ND	0.001	mg/L		
Thallium, total	MW-35	05/16/2016	ND	0.001	mg/L		
Thallium, total	MW-35	08/31/2016	ND	0.001	mg/L		
Thallium, total	MW-35	11/15/2016	ND	0.001	mg/L		
Thallium, total	MW-35	02/22/2017	ND	0.001	mg/L		
Thallium, total	MW-35	05/24/2017	ND	0.001	mg/L		
Thallium, total	MW-35	08/30/2017	ND	0.001	mg/L		
Thallium, total	MW-35	11/15/2017	ND	0.001	mg/L		
Thallium, total	MW-35	02/20/2018	ND	0.001	mg/L		
Thallium, total	MW-35	05/17/2018	ND	0.001	mg/L		
Thallium, total	MW-35	08/22/2018	ND	0.001	mg/L		
Thallium, total	MW-35	11/12/2018	ND	0.001	mg/L		
Thallium, total	MW-35	11/12/2019	ND	0.001	mg/L		
Thallium, total	MW-35	11/19/2020	ND	0.001	mg/L		
Thallium, total	MW-35	11/16/2021	ND	0.001	mg/L		
Thallium, total	MW-35	11/17/2022	ND	0.001	mg/L		
Thallium, total	MW-35	11/08/2023	ND	0.001	mg/L		
Thallium, total	MW-35	11/14/2024	ND	0.001	mg/L		
Total dissolved solids (tds)	MW-13A	03/22/2005		113	mg/L		
Total dissolved solids (tds)	MW-13A	06/15/2005		111	mg/L		
Total dissolved solids (tds)	MW-13A	09/27/2005		175	mg/L		
Total dissolved solids (tds)	MW-13A	12/15/2005		166	mg/L		
Total dissolved solids (tds)	MW-13A	03/28/2006		110	mg/L		
Total dissolved solids (tds)	MW-13A	06/21/2006		120	mg/L		
Total dissolved solids (tds)	MW-13A	09/26/2006		110	mg/L		
Total dissolved solids (tds)	MW-13A	12/13/2006		100	mg/L		
Total dissolved solids (tds)	MW-13A	03/27/2007		100	mg/L		
Total dissolved solids (tds)	MW-13A	06/19/2007		100	mg/L		
Total dissolved solids (tds)	MW-13A	09/19/2007		110	mg/L		
Total dissolved solids (tds)	MW-13A	12/19/2007		84	mg/L		
Total dissolved solids (tds)	MW-13A	03/25/2008		99	mg/L		
Total dissolved solids (tds)	MW-13A	06/18/2008		110	mg/L		
Total dissolved solids (tds)	MW-13A	09/17/2008		110	mg/L		
Total dissolved solids (tds)	MW-13A	12/17/2008		90	mg/L		
Total dissolved solids (tds)	MW-13A	03/24/2009		95	mg/L		
Total dissolved solids (tds)	MW-13A	06/17/2009		110	mg/L		
Total dissolved solids (tds)	MW-13A	09/10/2009		100	mg/L		
Total dissolved solids (tds)	MW-13A	12/03/2009		100	mg/L		
Total dissolved solids (tds)	MW-13A	03/25/2010		100	mg/L		
Total dissolved solids (tds)	MW-13A	06/23/2010		120	mg/L		
Total dissolved solids (tds)	MW-13A	09/23/2010		98	mg/L		
Total dissolved solids (tds)	MW-13A	12/08/2010		90	mg/L		
Total dissolved solids (tds)	MW-13A	03/30/2011		110	mg/L		
Total dissolved solids (tds)	MW-13A	06/06/2011		110	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Total dissolved solids (tds)	MW-13A	09/27/2011		100	mg/L		
Total dissolved solids (tds)	MW-13A	12/14/2011		97	mg/L		
Total dissolved solids (tds)	MW-13A	03/21/2012		93	mg/L		
Total dissolved solids (tds)	MW-13A	06/08/2012		120	mg/L		
Total dissolved solids (tds)	MW-13A	09/26/2012		120	mg/L		
Total dissolved solids (tds)	MW-13A	12/03/2012		88	mg/L		
Total dissolved solids (tds)	MW-13A	03/11/2013		100	mg/L		
Total dissolved solids (tds)	MW-13A	06/05/2013		100	mg/L		
Total dissolved solids (tds)	MW-13A	12/03/2013		98	mg/L		
Total dissolved solids (tds)	MW-13A	03/04/2014		100	mg/L		
Total dissolved solids (tds)	MW-13A	06/02/2014		100	mg/L		
Total dissolved solids (tds)	MW-13A	09/22/2014		110	mg/L		
Total dissolved solids (tds)	MW-13A	11/17/2014		110	mg/L		
Total dissolved solids (tds)	MW-13A	02/23/2015		99	mg/L		
Total dissolved solids (tds)	MW-13A	05/19/2015		100	mg/L		
Total dissolved solids (tds)	MW-13A	08/26/2015		97	mg/L		
Total dissolved solids (tds)	MW-13A	11/10/2015		100	mg/L		
Total dissolved solids (tds)	MW-13A	02/22/2016		100	mg/L		
Total dissolved solids (tds)	MW-13A	05/16/2016		99	mg/L		
Total dissolved solids (tds)	MW-13A	08/31/2016		130	mg/L		
Total dissolved solids (tds)	MW-13A	11/14/2016		110	mg/L		
Total dissolved solids (tds)	MW-13A	02/22/2017		110	mg/L		
Total dissolved solids (tds)	MW-13A	05/24/2017		100	mg/L		
Total dissolved solids (tds)	MW-13A	08/30/2017		100	mg/L		
Total dissolved solids (tds)	MW-13A	11/13/2017		110	mg/L		
Total dissolved solids (tds)	MW-13A	02/20/2018		110	mg/L		
Total dissolved solids (tds)	MW-13A	05/15/2018		110	mg/L		
Total dissolved solids (tds)	MW-13A	08/21/2018		110	mg/L		
Total dissolved solids (tds)	MW-13A	11/12/2018		98	mg/L		
Total dissolved solids (tds)	MW-13A	11/11/2019		100	mg/L		
Total dissolved solids (tds)	MW-13A	11/19/2020		130	mg/L		
Total dissolved solids (tds)	MW-13A	11/16/2021		100	mg/L		
Total dissolved solids (tds)	MW-13A	11/17/2022		88	mg/L		
Total dissolved solids (tds)	MW-13A	11/08/2023		98	mg/L		
Total dissolved solids (tds)	MW-13A	11/14/2024		110	mg/L		
Total dissolved solids (tds)	MW-13B	03/22/2005		108	mg/L		
Total dissolved solids (tds)	MW-13B	06/15/2005		114	mg/L		
Total dissolved solids (tds)	MW-13B	09/27/2005		111	mg/L		
Total dissolved solids (tds)	MW-13B	12/15/2005		130	mg/L		
Total dissolved solids (tds)	MW-13B	03/29/2006		89	mg/L		
Total dissolved solids (tds)	MW-13B	06/21/2006		110	mg/L		
Total dissolved solids (tds)	MW-13B	09/26/2006		100	mg/L		
Total dissolved solids (tds)	MW-13B	12/13/2006		98	mg/L		
Total dissolved solids (tds)	MW-13B	03/27/2007		100	mg/L		
Total dissolved solids (tds)	MW-13B	06/19/2007		99	mg/L		
Total dissolved solids (tds)	MW-13B	09/18/2007		99	mg/L		
Total dissolved solids (tds)	MW-13B	12/19/2007		91	mg/L		
Total dissolved solids (tds)	MW-13B	03/25/2008		99	mg/L		
Total dissolved solids (tds)	MW-13B	06/18/2008		120	mg/L		
Total dissolved solids (tds)	MW-13B	09/17/2008		110	mg/L		
Total dissolved solids (tds)	MW-13B	12/16/2008		93	mg/L		
Total dissolved solids (tds)	MW-13B	03/24/2009		94	mg/L		
Total dissolved solids (tds)	MW-13B	06/17/2009		100	mg/L		
Total dissolved solids (tds)	MW-13B	09/10/2009		100	mg/L		
Total dissolved solids (tds)	MW-13B	12/03/2009		110	mg/L		
Total dissolved solids (tds)	MW-13B	03/25/2010		100	mg/L		
Total dissolved solids (tds)	MW-13B	06/23/2010		110	mg/L		
Total dissolved solids (tds)	MW-13B	09/23/2010		94	mg/L		
Total dissolved solids (tds)	MW-13B	12/08/2010		94	mg/L		
Total dissolved solids (tds)	MW-13B	03/30/2011		110	mg/L		
Total dissolved solids (tds)	MW-13B	06/06/2011		99	mg/L		
Total dissolved solids (tds)	MW-13B	09/27/2011		100	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Total dissolved solids (tds)	MW-13B	12/14/2011		91	mg/L		
Total dissolved solids (tds)	MW-13B	03/21/2012		100	mg/L		
Total dissolved solids (tds)	MW-13B	06/08/2012		110	mg/L		
Total dissolved solids (tds)	MW-13B	09/26/2012		110	mg/L		
Total dissolved solids (tds)	MW-13B	12/03/2012		93	mg/L		
Total dissolved solids (tds)	MW-13B	03/11/2013		100	mg/L		
Total dissolved solids (tds)	MW-13B	06/05/2013		98	mg/L		
Total dissolved solids (tds)	MW-13B	12/03/2013		99	mg/L		
Total dissolved solids (tds)	MW-13B	03/04/2014		99	mg/L		
Total dissolved solids (tds)	MW-13B	06/02/2014		100	mg/L		
Total dissolved solids (tds)	MW-13B	09/22/2014		110	mg/L		
Total dissolved solids (tds)	MW-13B	11/17/2014		110	mg/L		
Total dissolved solids (tds)	MW-13B	02/23/2015		110	mg/L		
Total dissolved solids (tds)	MW-13B	05/19/2015		110	mg/L		
Total dissolved solids (tds)	MW-13B	08/26/2015		98	mg/L		
Total dissolved solids (tds)	MW-13B	11/10/2015		100	mg/L		
Total dissolved solids (tds)	MW-13B	02/22/2016		100	mg/L		
Total dissolved solids (tds)	MW-13B	05/16/2016		99	mg/L		
Total dissolved solids (tds)	MW-13B	08/31/2016		120	mg/L		
Total dissolved solids (tds)	MW-13B	11/14/2016		100	mg/L		
Total dissolved solids (tds)	MW-13B	02/22/2017		110	mg/L		
Total dissolved solids (tds)	MW-13B	05/24/2017		97	mg/L		
Total dissolved solids (tds)	MW-13B	08/30/2017		110	mg/L		
Total dissolved solids (tds)	MW-13B	11/13/2017		110	mg/L		
Total dissolved solids (tds)	MW-13B	02/20/2018		99	mg/L		
Total dissolved solids (tds)	MW-13B	05/15/2018		100	mg/L		
Total dissolved solids (tds)	MW-13B	08/21/2018		110	mg/L		
Total dissolved solids (tds)	MW-13B	11/12/2018		110	mg/L		
Total dissolved solids (tds)	MW-13B	11/11/2019		100	mg/L		
Total dissolved solids (tds)	MW-13B	11/19/2020		120	mg/L		
Total dissolved solids (tds)	MW-13B	11/16/2021		97	mg/L		
Total dissolved solids (tds)	MW-13B	11/17/2022		93	mg/L		
Total dissolved solids (tds)	MW-13B	11/08/2023		99	mg/L		
Total dissolved solids (tds)	MW-13B	11/14/2024		110	mg/L		
Total dissolved solids (tds)	MW-16	03/24/2009		87	mg/L		
Total dissolved solids (tds)	MW-16	06/16/2009		85	mg/L		
Total dissolved solids (tds)	MW-16	09/09/2009		89	mg/L		
Total dissolved solids (tds)	MW-16	12/03/2009		97	mg/L		
Total dissolved solids (tds)	MW-16	03/25/2010		83	mg/L		
Total dissolved solids (tds)	MW-16	06/24/2010		95	mg/L		
Total dissolved solids (tds)	MW-16	09/24/2010		120	mg/L		
Total dissolved solids (tds)	MW-16	12/09/2010		100	mg/L		
Total dissolved solids (tds)	MW-16	03/30/2011		91	mg/L		
Total dissolved solids (tds)	MW-16	06/07/2011		94	mg/L		
Total dissolved solids (tds)	MW-16	09/27/2011		100	mg/L		
Total dissolved solids (tds)	MW-16	12/13/2011		93	mg/L		
Total dissolved solids (tds)	MW-16	03/21/2012		71	mg/L		
Total dissolved solids (tds)	MW-16	06/08/2012		95	mg/L		
Total dissolved solids (tds)	MW-16	09/27/2012		87	mg/L		
Total dissolved solids (tds)	MW-16	12/04/2012		100	mg/L		
Total dissolved solids (tds)	MW-16	03/12/2013		100	mg/L		
Total dissolved solids (tds)	MW-16	06/04/2013		68	mg/L		
Total dissolved solids (tds)	MW-16	09/05/2013		100	mg/L		
Total dissolved solids (tds)	MW-16	12/16/2013		92	mg/L		
Total dissolved solids (tds)	MW-16	03/05/2014		82	mg/L		
Total dissolved solids (tds)	MW-16	06/02/2014		79	mg/L		
Total dissolved solids (tds)	MW-16	09/22/2014		93	mg/L		
Total dissolved solids (tds)	MW-16	11/18/2014		100	mg/L		
Total dissolved solids (tds)	MW-16	02/23/2015		80	mg/L		
Total dissolved solids (tds)	MW-16	05/20/2015		99	mg/L		
Total dissolved solids (tds)	MW-16	08/26/2015		93	mg/L		
Total dissolved solids (tds)	MW-16	11/11/2015		99	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Total dissolved solids (tds)	MW-16	02/24/2016		79	mg/L		
Total dissolved solids (tds)	MW-16	05/16/2016		83	mg/L		
Total dissolved solids (tds)	MW-16	08/31/2016		93	mg/L		
Total dissolved solids (tds)	MW-16	11/14/2016		86	mg/L		
Total dissolved solids (tds)	MW-16	02/22/2017		80	mg/L		
Total dissolved solids (tds)	MW-16	05/24/2017		93	mg/L		
Total dissolved solids (tds)	MW-16	08/30/2017		85	mg/L		
Total dissolved solids (tds)	MW-16	11/13/2017		80	mg/L		
Total dissolved solids (tds)	MW-16	02/20/2018		80	mg/L		
Total dissolved solids (tds)	MW-16	05/17/2018		65	mg/L		
Total dissolved solids (tds)	MW-16	08/22/2018		100	mg/L		
Total dissolved solids (tds)	MW-16	11/12/2018		81	mg/L		
Total dissolved solids (tds)	MW-16	11/12/2019		82	mg/L		
Total dissolved solids (tds)	MW-16	11/20/2020		100	mg/L		
Total dissolved solids (tds)	MW-16	11/16/2021		98	mg/L		
Total dissolved solids (tds)	MW-16	11/17/2022		82	mg/L		
Total dissolved solids (tds)	MW-16	11/08/2023		81	mg/L		
Total dissolved solids (tds)	MW-16	11/14/2024		100	mg/L		
Total dissolved solids (tds)	MW-35	03/22/2005		100	mg/L		
Total dissolved solids (tds)	MW-35	06/14/2005		88	mg/L		
Total dissolved solids (tds)	MW-35	09/27/2005		123	mg/L		
Total dissolved solids (tds)	MW-35	12/15/2005		87	mg/L		
Total dissolved solids (tds)	MW-35	03/28/2006		91	mg/L		
Total dissolved solids (tds)	MW-35	06/21/2006		110	mg/L		
Total dissolved solids (tds)	MW-35	09/26/2006		110	mg/L		
Total dissolved solids (tds)	MW-35	12/12/2006		90	mg/L		
Total dissolved solids (tds)	MW-35	03/27/2007		93	mg/L		
Total dissolved solids (tds)	MW-35	06/20/2007		110	mg/L		
Total dissolved solids (tds)	MW-35	09/18/2007		90	mg/L		
Total dissolved solids (tds)	MW-35	12/20/2007		120	mg/L		
Total dissolved solids (tds)	MW-35	03/25/2008		76	mg/L		
Total dissolved solids (tds)	MW-35	06/18/2008		93	mg/L		
Total dissolved solids (tds)	MW-35	09/18/2008		92	mg/L		
Total dissolved solids (tds)	MW-35	12/19/2008		93	mg/L		
Total dissolved solids (tds)	MW-35	03/24/2009		84	mg/L		
Total dissolved solids (tds)	MW-35	06/16/2009		95	mg/L		
Total dissolved solids (tds)	MW-35	09/10/2009		83	mg/L		
Total dissolved solids (tds)	MW-35	12/03/2009		85	mg/L		
Total dissolved solids (tds)	MW-35	03/25/2010		96	mg/L		
Total dissolved solids (tds)	MW-35	06/23/2010		100	mg/L		
Total dissolved solids (tds)	MW-35	09/23/2010		86	mg/L		
Total dissolved solids (tds)	MW-35	12/09/2010		97	mg/L		
Total dissolved solids (tds)	MW-35	03/30/2011		91	mg/L		
Total dissolved solids (tds)	MW-35	06/06/2011		96	mg/L		
Total dissolved solids (tds)	MW-35	09/26/2011		100	mg/L		
Total dissolved solids (tds)	MW-35	12/13/2011		95	mg/L		
Total dissolved solids (tds)	MW-35	03/21/2012		85	mg/L		
Total dissolved solids (tds)	MW-35	06/06/2012		120	mg/L		
Total dissolved solids (tds)	MW-35	09/26/2012		110	mg/L		
Total dissolved solids (tds)	MW-35	12/04/2012		100	mg/L		
Total dissolved solids (tds)	MW-35	03/13/2013		96	mg/L		
Total dissolved solids (tds)	MW-35	06/06/2013		90	mg/L		
Total dissolved solids (tds)	MW-35	09/05/2013		100	mg/L		
Total dissolved solids (tds)	MW-35	12/16/2013		95	mg/L		
Total dissolved solids (tds)	MW-35	03/04/2014		94	mg/L		
Total dissolved solids (tds)	MW-35	06/02/2014		92	mg/L		
Total dissolved solids (tds)	MW-35	09/22/2014		99	mg/L		
Total dissolved solids (tds)	MW-35	11/17/2014		100	mg/L		
Total dissolved solids (tds)	MW-35	02/25/2015		93	mg/L		
Total dissolved solids (tds)	MW-35	05/19/2015		110	mg/L		
Total dissolved solids (tds)	MW-35	08/26/2015		99	mg/L		
Total dissolved solids (tds)	MW-35	11/10/2015		98	mg/L		

* = outlier for that well/constituent

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Total dissolved solids (tds)	MW-35	02/22/2016		93	mg/L		
Total dissolved solids (tds)	MW-35	05/16/2016		100	mg/L		
Total dissolved solids (tds)	MW-35	08/31/2016		95	mg/L		
Total dissolved solids (tds)	MW-35	11/15/2016		120	mg/L		
Total dissolved solids (tds)	MW-35	02/22/2017		100	mg/L		
Total dissolved solids (tds)	MW-35	05/24/2017		110	mg/L		
Total dissolved solids (tds)	MW-35	08/30/2017		99	mg/L		
Total dissolved solids (tds)	MW-35	11/15/2017		100	mg/L		
Total dissolved solids (tds)	MW-35	02/20/2018		98	mg/L		
Total dissolved solids (tds)	MW-35	05/17/2018		92	mg/L		
Total dissolved solids (tds)	MW-35	08/22/2018		110	mg/L		
Total dissolved solids (tds)	MW-35	11/12/2018		100	mg/L		
Total dissolved solids (tds)	MW-35	11/12/2019		89	mg/L		
Total dissolved solids (tds)	MW-35	11/19/2020		110	mg/L		
Total dissolved solids (tds)	MW-35	11/16/2021		97	mg/L		
Total dissolved solids (tds)	MW-35	11/17/2022		85	mg/L		
Total dissolved solids (tds)	MW-35	11/08/2023		90	mg/L		
Total dissolved solids (tds)	MW-35	11/14/2024		100	mg/L		
Total organic carbon (toc)	MW-13A	03/22/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/15/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/27/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/15/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/28/2006	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/21/2006		2.2	mg/L		
Total organic carbon (toc)	MW-13A	09/26/2006		6	mg/L		
Total organic carbon (toc)	MW-13A	12/13/2006	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/27/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/19/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/19/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/19/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/25/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/18/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/17/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/17/2008		1	mg/L		
Total organic carbon (toc)	MW-13A	03/24/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/17/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/10/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/03/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/25/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/23/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/23/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/08/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/30/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/06/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/27/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/14/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/21/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/08/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/26/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/03/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/11/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/05/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	12/03/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	03/04/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	06/02/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	09/22/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/17/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	05/19/2015	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	02/22/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	05/16/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	08/31/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/14/2016	ND	1	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Total organic carbon (toc)	MW-13A	02/22/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	05/24/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	08/30/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/13/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	02/20/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	05/15/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	08/21/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/12/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/11/2019	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/19/2020	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/16/2021	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/17/2022	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/08/2023	ND	1	mg/L		
Total organic carbon (toc)	MW-13A	11/14/2024	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/22/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/15/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/27/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/15/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/29/2006	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/21/2006	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/26/2006		4.8	mg/L		
Total organic carbon (toc)	MW-13B	12/13/2006	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/27/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/19/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/18/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/19/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/25/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/18/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/17/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/16/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/24/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/17/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/10/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/03/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/25/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/23/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/23/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/08/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/30/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/06/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/27/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/14/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/21/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/08/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/26/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/03/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/11/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/05/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	12/03/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	03/04/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	06/02/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	09/22/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/17/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	05/19/2015	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	02/22/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	05/16/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	08/31/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/14/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	02/22/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	05/24/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	08/30/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/13/2017	ND	1	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Total organic carbon (toc)	MW-13B	02/20/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	05/15/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	08/21/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/12/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/11/2019	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/19/2020	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/16/2021	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/17/2022	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/08/2023	ND	1	mg/L		
Total organic carbon (toc)	MW-13B	11/14/2024	ND	1	mg/L		
Total organic carbon (toc)	MW-16	03/24/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-16	06/16/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-16	09/09/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-16	12/03/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-16	03/25/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-16	06/24/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-16	09/24/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-16	12/09/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-16	03/30/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-16	06/07/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-16	09/27/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-16	12/13/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-16	03/21/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-16	06/08/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-16	09/27/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-16	12/04/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-16	03/12/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-16	06/04/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-16	09/05/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-16	12/16/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-16	03/05/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-16	06/02/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-16	09/22/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/18/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-16	05/20/2015	ND	1	mg/L		
Total organic carbon (toc)	MW-16	02/24/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-16	05/16/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-16	08/31/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/14/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-16	02/22/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-16	05/24/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-16	08/30/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/13/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-16	02/20/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-16	05/17/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-16	08/22/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/12/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/12/2019	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/20/2020	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/16/2021	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/17/2022	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/08/2023	ND	1	mg/L		
Total organic carbon (toc)	MW-16	11/14/2024	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/22/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/14/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/27/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/15/2005	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/28/2006	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/21/2006		2.1	mg/L		
Total organic carbon (toc)	MW-35	09/26/2006		4.3	mg/L		
Total organic carbon (toc)	MW-35	12/12/2006	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/27/2007	ND	1	mg/L		

* = outlier for that well/constituent
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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Total organic carbon (toc)	MW-35	06/20/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/18/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/20/2007	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/25/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/18/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/18/2008	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/19/2008		1	mg/L		
Total organic carbon (toc)	MW-35	03/24/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/16/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/10/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/03/2009	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/25/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/23/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/23/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/09/2010	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/30/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/06/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/26/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/13/2011	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/21/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/06/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/26/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/04/2012	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/13/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/06/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/05/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-35	12/16/2013	ND	1	mg/L		
Total organic carbon (toc)	MW-35	03/04/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-35	06/02/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-35	09/22/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/17/2014	ND	1	mg/L		
Total organic carbon (toc)	MW-35	05/19/2015	ND	1	mg/L		
Total organic carbon (toc)	MW-35	02/22/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-35	05/16/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-35	08/31/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/15/2016	ND	1	mg/L		
Total organic carbon (toc)	MW-35	02/22/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-35	05/24/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-35	08/30/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/15/2017	ND	1	mg/L		
Total organic carbon (toc)	MW-35	02/20/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-35	05/17/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-35	08/22/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/12/2018	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/12/2019	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/19/2020	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/16/2021	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/17/2022	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/08/2023	ND	1	mg/L		
Total organic carbon (toc)	MW-35	11/14/2024	ND	1	mg/L		
Vanadium, total	MW-13A	12/03/2013		0.0042	mg/L		
Vanadium, total	MW-13A	03/04/2014		0.0042	mg/L		
Vanadium, total	MW-13A	06/02/2014		0.0048	mg/L		
Vanadium, total	MW-13A	09/22/2014		0.0039	mg/L		
Vanadium, total	MW-13A	11/17/2014		0.0042	mg/L		
Vanadium, total	MW-13A	02/23/2015		0.0042	mg/L		
Vanadium, total	MW-13A	05/19/2015		0.0034	mg/L		
Vanadium, total	MW-13A	08/26/2015		0.0039	mg/L		
Vanadium, total	MW-13A	11/10/2015		0.004	mg/L		
Vanadium, total	MW-13A	02/22/2016		0.004	mg/L		
Vanadium, total	MW-13A	05/16/2016		0.0039	mg/L		
Vanadium, total	MW-13A	08/31/2016		0.0041	mg/L		

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TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Vanadium, total	MW-13A	11/14/2016		0.0039	mg/L		
Vanadium, total	MW-13A	02/22/2017		0.0043	mg/L		
Vanadium, total	MW-13A	05/24/2017		0.0033	mg/L		
Vanadium, total	MW-13A	08/30/2017		0.0039	mg/L		
Vanadium, total	MW-13A	11/13/2017		0.0038	mg/L		
Vanadium, total	MW-13A	02/20/2018		0.0026	mg/L		
Vanadium, total	MW-13A	05/15/2018	ND	0.002	mg/L		
Vanadium, total	MW-13A	08/21/2018		0.0041	mg/L		
Vanadium, total	MW-13A	11/12/2018		0.0039	mg/L		
Vanadium, total	MW-13A	11/11/2019		0.0022	mg/L		
Vanadium, total	MW-13A	11/19/2020		0.0037	mg/L		
Vanadium, total	MW-13A	11/16/2021		0.0041	mg/L		
Vanadium, total	MW-13A	11/17/2022		0.0043	mg/L		
Vanadium, total	MW-13A	11/08/2023		0.0037	mg/L		
Vanadium, total	MW-13A	11/14/2024		0.0034	mg/L		
Vanadium, total	MW-13B	12/03/2013		0.0058	mg/L		
Vanadium, total	MW-13B	03/04/2014		0.0057	mg/L		
Vanadium, total	MW-13B	06/02/2014		0.0057	mg/L		
Vanadium, total	MW-13B	09/22/2014		0.005	mg/L		
Vanadium, total	MW-13B	11/17/2014		0.0055	mg/L		
Vanadium, total	MW-13B	02/23/2015		0.0054	mg/L		
Vanadium, total	MW-13B	05/19/2015		0.0054	mg/L		
Vanadium, total	MW-13B	08/26/2015		0.0056	mg/L		
Vanadium, total	MW-13B	11/10/2015		0.0058	mg/L		
Vanadium, total	MW-13B	02/22/2016		0.0058	mg/L		
Vanadium, total	MW-13B	05/16/2016		0.0056	mg/L		
Vanadium, total	MW-13B	08/31/2016		0.0054	mg/L		
Vanadium, total	MW-13B	11/14/2016		0.0061	mg/L		
Vanadium, total	MW-13B	02/22/2017		0.0058	mg/L		
Vanadium, total	MW-13B	05/24/2017		0.0044	mg/L		
Vanadium, total	MW-13B	08/30/2017		0.0054	mg/L		
Vanadium, total	MW-13B	11/13/2017		0.0051	mg/L		
Vanadium, total	MW-13B	02/20/2018		0.0045	mg/L		
Vanadium, total	MW-13B	05/15/2018		0.0029	mg/L		
Vanadium, total	MW-13B	08/21/2018		0.0058	mg/L		
Vanadium, total	MW-13B	11/12/2018		0.0054	mg/L		
Vanadium, total	MW-13B	11/11/2019		0.0034	mg/L		
Vanadium, total	MW-13B	11/19/2020		0.0056	mg/L		
Vanadium, total	MW-13B	11/16/2021		0.0056	mg/L		
Vanadium, total	MW-13B	11/17/2022		0.0058	mg/L		
Vanadium, total	MW-13B	11/08/2023		0.0051	mg/L		
Vanadium, total	MW-13B	11/14/2024		0.0053	mg/L		
Vanadium, total	MW-16	09/05/2013		0.0034	mg/L		
Vanadium, total	MW-16	12/16/2013		0.0039	mg/L		
Vanadium, total	MW-16	03/05/2014		0.0042	mg/L		
Vanadium, total	MW-16	06/02/2014		0.0042	mg/L		
Vanadium, total	MW-16	09/22/2014		0.0042	mg/L		
Vanadium, total	MW-16	11/18/2014		0.004	mg/L		
Vanadium, total	MW-16	02/23/2015		0.0051	mg/L		
Vanadium, total	MW-16	05/20/2015		0.0042	mg/L		
Vanadium, total	MW-16	08/26/2015		0.0032	mg/L		
Vanadium, total	MW-16	11/11/2015		0.0034	mg/L		
Vanadium, total	MW-16	02/24/2016		0.0043	mg/L		
Vanadium, total	MW-16	05/16/2016		0.0034	mg/L		
Vanadium, total	MW-16	08/31/2016		0.0042	mg/L		
Vanadium, total	MW-16	11/14/2016		0.0049	mg/L		
Vanadium, total	MW-16	02/22/2017		0.0047	mg/L		
Vanadium, total	MW-16	05/24/2017		0.003	mg/L		
Vanadium, total	MW-16	08/30/2017		0.0033	mg/L		
Vanadium, total	MW-16	11/13/2017		0.0031	mg/L		
Vanadium, total	MW-16	02/20/2018		0.0029	mg/L		
Vanadium, total	MW-16	05/17/2018		0.0037	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Vanadium, total	MW-16	08/22/2018		0.0034	mg/L		
Vanadium, total	MW-16	11/12/2018		0.0047	mg/L		
Vanadium, total	MW-16	11/12/2019		0.0036	mg/L		
Vanadium, total	MW-16	11/20/2020		0.009	mg/L		
Vanadium, total	MW-16	11/16/2021		0.0038	mg/L		
Vanadium, total	MW-16	11/17/2022		0.0039	mg/L		
Vanadium, total	MW-16	11/08/2023		0.0035	mg/L		
Vanadium, total	MW-16	11/14/2024		0.0032	mg/L		
Vanadium, total	MW-35	09/05/2013		0.0042	mg/L		
Vanadium, total	MW-35	12/16/2013		0.0046	mg/L		
Vanadium, total	MW-35	03/04/2014		0.0047	mg/L		
Vanadium, total	MW-35	06/02/2014		0.0042	mg/L		
Vanadium, total	MW-35	09/22/2014		0.0044	mg/L		
Vanadium, total	MW-35	11/17/2014		0.0042	mg/L		
Vanadium, total	MW-35	02/25/2015		0.0048	mg/L		
Vanadium, total	MW-35	05/19/2015		0.0042	mg/L		
Vanadium, total	MW-35	08/26/2015		0.0041	mg/L		
Vanadium, total	MW-35	11/10/2015		0.0043	mg/L		
Vanadium, total	MW-35	02/22/2016		0.0045	mg/L		
Vanadium, total	MW-35	05/16/2016		0.0046	mg/L		
Vanadium, total	MW-35	08/31/2016		0.0046	mg/L		
Vanadium, total	MW-35	11/15/2016		0.0043	mg/L		
Vanadium, total	MW-35	02/22/2017		0.005	mg/L		
Vanadium, total	MW-35	05/24/2017		0.0034	mg/L		
Vanadium, total	MW-35	08/30/2017		0.0042	mg/L		
Vanadium, total	MW-35	11/15/2017		0.004	mg/L		
Vanadium, total	MW-35	02/20/2018		0.0032	mg/L		
Vanadium, total	MW-35	05/17/2018		0.0044	mg/L		
Vanadium, total	MW-35	08/22/2018		0.0042	mg/L		
Vanadium, total	MW-35	11/12/2018		0.0042	mg/L		
Vanadium, total	MW-35	11/12/2019		0.0041	mg/L		
Vanadium, total	MW-35	11/19/2020		0.0043	mg/L		
Vanadium, total	MW-35	11/16/2021		0.0046	mg/L		
Vanadium, total	MW-35	11/17/2022		0.0041	mg/L		
Vanadium, total	MW-35	11/08/2023		0.0043	mg/L		
Vanadium, total	MW-35	11/14/2024		0.0041	mg/L		
Zinc, total	MW-13A	12/03/2013	ND	0.005	mg/L		
Zinc, total	MW-13A	03/04/2014	ND	0.005	mg/L		
Zinc, total	MW-13A	06/02/2014	ND	0.005	mg/L		
Zinc, total	MW-13A	09/22/2014	ND	0.005	mg/L		
Zinc, total	MW-13A	11/17/2014	ND	0.005	mg/L		
Zinc, total	MW-13A	02/23/2015	ND	0.005	mg/L		
Zinc, total	MW-13A	05/19/2015	ND	0.005	mg/L		
Zinc, total	MW-13A	08/26/2015	ND	0.005	mg/L		
Zinc, total	MW-13A	11/10/2015	ND	0.005	mg/L		
Zinc, total	MW-13A	02/22/2016	ND	0.005	mg/L		
Zinc, total	MW-13A	05/16/2016	ND	0.005	mg/L		
Zinc, total	MW-13A	08/31/2016	ND	0.005	mg/L		
Zinc, total	MW-13A	11/14/2016	ND	0.005	mg/L		
Zinc, total	MW-13A	02/22/2017	ND	0.005	mg/L		
Zinc, total	MW-13A	05/24/2017	ND	0.005	mg/L		
Zinc, total	MW-13A	08/30/2017	ND	0.005	mg/L		
Zinc, total	MW-13A	11/13/2017	ND	0.005	mg/L		
Zinc, total	MW-13A	02/20/2018	ND	0.005	mg/L		
Zinc, total	MW-13A	05/15/2018	ND	0.005	mg/L		
Zinc, total	MW-13A	08/21/2018	ND	0.005	mg/L		
Zinc, total	MW-13A	11/12/2018	ND	0.005	mg/L		
Zinc, total	MW-13A	11/11/2019	ND	0.005	mg/L		
Zinc, total	MW-13A	11/19/2020	ND	0.005	mg/L		
Zinc, total	MW-13A	11/16/2021	ND	0.005	mg/L		
Zinc, total	MW-13A	11/17/2022	ND	0.005	mg/L		
Zinc, total	MW-13A	11/08/2023	ND	0.005	mg/L		

* = outlier for that well/constituent

** = ND value replaced with median reporting limit

ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Zinc, total	MW-13A	11/14/2024	ND	0.005	mg/L		
Zinc, total	MW-13B	12/03/2013	ND	0.005	mg/L		
Zinc, total	MW-13B	03/04/2014	ND	0.005	mg/L		
Zinc, total	MW-13B	06/02/2014	ND	0.005	mg/L		
Zinc, total	MW-13B	09/22/2014	ND	0.005	mg/L		
Zinc, total	MW-13B	11/17/2014	ND	0.005	mg/L		
Zinc, total	MW-13B	02/23/2015	ND	0.005	mg/L		
Zinc, total	MW-13B	05/19/2015	ND	0.005	mg/L		
Zinc, total	MW-13B	08/26/2015	ND	0.005	mg/L		
Zinc, total	MW-13B	11/10/2015	ND	0.005	mg/L		
Zinc, total	MW-13B	02/22/2016	ND	0.005	mg/L		
Zinc, total	MW-13B	05/16/2016	ND	0.005	mg/L		
Zinc, total	MW-13B	08/31/2016	ND	0.005	mg/L		
Zinc, total	MW-13B	11/14/2016	ND	0.005	mg/L		
Zinc, total	MW-13B	02/22/2017	ND	0.005	mg/L		
Zinc, total	MW-13B	05/24/2017	ND	0.005	mg/L		
Zinc, total	MW-13B	08/30/2017	ND	0.005	mg/L		
Zinc, total	MW-13B	11/13/2017	ND	0.005	mg/L		
Zinc, total	MW-13B	02/20/2018	ND	0.005	mg/L		
Zinc, total	MW-13B	05/15/2018	ND	0.005	mg/L		
Zinc, total	MW-13B	08/21/2018	ND	0.005	mg/L		
Zinc, total	MW-13B	11/12/2018	ND	0.005	mg/L		
Zinc, total	MW-13B	11/11/2019	ND	0.005	mg/L		
Zinc, total	MW-13B	11/19/2020	ND	0.005	mg/L		
Zinc, total	MW-13B	11/16/2021	ND	0.005	mg/L		
Zinc, total	MW-13B	11/17/2022	ND	0.005	mg/L		
Zinc, total	MW-13B	11/08/2023	ND	0.005	mg/L		
Zinc, total	MW-13B	11/14/2024	ND	0.005	mg/L		
Zinc, total	MW-16	09/05/2013	ND	0.005	mg/L		
Zinc, total	MW-16	12/16/2013	ND	0.005	mg/L		
Zinc, total	MW-16	03/05/2014	ND	0.005	mg/L		
Zinc, total	MW-16	06/02/2014	ND	0.005	mg/L		
Zinc, total	MW-16	09/22/2014	ND	0.005	mg/L		
Zinc, total	MW-16	11/18/2014	ND	0.005	mg/L		
Zinc, total	MW-16	02/23/2015	ND	0.005	mg/L		
Zinc, total	MW-16	05/20/2015	ND	0.005	mg/L		
Zinc, total	MW-16	08/26/2015	ND	0.005	mg/L		
Zinc, total	MW-16	11/11/2015	ND	0.005	mg/L		
Zinc, total	MW-16	02/24/2016	ND	0.005	mg/L		
Zinc, total	MW-16	05/16/2016	ND	0.005	mg/L		
Zinc, total	MW-16	08/31/2016	ND	0.005	mg/L		
Zinc, total	MW-16	11/14/2016		0.0056	mg/L		
Zinc, total	MW-16	02/22/2017	ND	0.005	mg/L		
Zinc, total	MW-16	05/24/2017	ND	0.005	mg/L		
Zinc, total	MW-16	08/30/2017	ND	0.005	mg/L		
Zinc, total	MW-16	11/13/2017	ND	0.005	mg/L		
Zinc, total	MW-16	02/20/2018	ND	0.005	mg/L		
Zinc, total	MW-16	05/17/2018	ND	0.005	mg/L		
Zinc, total	MW-16	08/22/2018	ND	0.005	mg/L		
Zinc, total	MW-16	11/12/2018	ND	0.005	mg/L		
Zinc, total	MW-16	11/12/2019	ND	0.005	mg/L		
Zinc, total	MW-16	11/20/2020	ND	0.005	mg/L		
Zinc, total	MW-16	11/16/2021	ND	0.005	mg/L		
Zinc, total	MW-16	11/17/2022	ND	0.005	mg/L		
Zinc, total	MW-16	11/08/2023	ND	0.005	mg/L		
Zinc, total	MW-16	11/14/2024	ND	0.005	mg/L		
Zinc, total	MW-35	09/05/2013	ND	0.005	mg/L		
Zinc, total	MW-35	12/16/2013	ND	0.005	mg/L		
Zinc, total	MW-35	03/04/2014	ND	0.005	mg/L		
Zinc, total	MW-35	06/02/2014	ND	0.005	mg/L		
Zinc, total	MW-35	09/22/2014	ND	0.005	mg/L		
Zinc, total	MW-35	11/17/2014	ND	0.005	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-3
Upgradient Data Used to Calculate 2025 Prediction Limits

Zinc, total	MW-35	02/25/2015	ND	0.005	mg/L		
Zinc, total	MW-35	05/19/2015	ND	0.005	mg/L		
Zinc, total	MW-35	08/26/2015	ND	0.005	mg/L		
Zinc, total	MW-35	11/10/2015	ND	0.005	mg/L		
Zinc, total	MW-35	02/22/2016	ND	0.005	mg/L		
Zinc, total	MW-35	05/16/2016	ND	0.005	mg/L		
Zinc, total	MW-35	08/31/2016	ND	0.005	mg/L		
Zinc, total	MW-35	11/15/2016	ND	0.005	mg/L		
Zinc, total	MW-35	02/22/2017	ND	0.005	mg/L		
Zinc, total	MW-35	05/24/2017	ND	0.005	mg/L		
Zinc, total	MW-35	08/30/2017	ND	0.005	mg/L		
Zinc, total	MW-35	11/15/2017	ND	0.005	mg/L		
Zinc, total	MW-35	02/20/2018	ND	0.005	mg/L		
Zinc, total	MW-35	05/17/2018	ND	0.005	mg/L		
Zinc, total	MW-35	08/22/2018	ND	0.005	mg/L		
Zinc, total	MW-35	11/12/2018	ND	0.005	mg/L		
Zinc, total	MW-35	11/12/2019	ND	0.005	mg/L		
Zinc, total	MW-35	11/19/2020	ND	0.005	mg/L		
Zinc, total	MW-35	11/16/2021	ND	0.005	mg/L		
Zinc, total	MW-35	11/17/2022	ND	0.005	mg/L		
Zinc, total	MW-35	11/08/2023	ND	0.005	mg/L		
Zinc, total	MW-35	11/14/2024	ND	0.005	mg/L		

* = outlier for that well/constituent
** = ND value replaced with median reporting limit
ND = not detected; Result = reporting limit

TABLE 2-4
Shapiro-Wilk Multiple Group Test of Normality

Constituent	N (Detects)	N (Total)	Detection Frequency	G (raw)	G (log)	Critical Value	Distributional Form	Model Type
Alkalinity, bicarbonate (as caco3)	226	226	1.000	4.146	3.483	2.326	non-norm	nonparametric
Alkalinity, total (as caco3)	230	230	1.000	4.231	3.555	2.326	non-norm	nonparametric
Ammonia (as n)	75	225	0.333	6.402	0.82	2.326	lognor	nonparametric
Antimony, total	3	110	0.027					nonparametric
Arsenic, total	116	116	1.000	2.208	2.105	2.326	normal	normal
Barium, total	110	110	1.000	0.174	0.536	2.326	normal	normal
Beryllium, total	0	110	0.000					nonparametric
Cadmium, total	0	110	0.000					nonparametric
Calcium, dissolved	230	230	1.000	6.997	6.883	2.326	non-norm	nonparametric
Chloride	203	230	0.883	7.891	5.295	2.326	non-norm	nonparametric
Chromium, total	48	110	0.436	5.115	3.815	2.326	non-norm	nonparametric
Cobalt, total	0	110	0.000					nonparametric
Copper, total	1	110	0.009					nonparametric
Iron, total	13	109	0.119	1.251	0.44	2.326	normal	nonparametric
Lead, total	1	110	0.009					nonparametric
Magnesium, dissolved	230	230	1.000	1.722	1.385	2.326	normal	normal
Manganese, total	31	110	0.282	2.436	0.784	2.326	lognor	nonparametric
Nickel, total	2	110	0.018					nonparametric
Nitrate (as n)	214	217	0.986	9.347	5.583	2.326	non-norm	nonparametric
pH	245	245	1.000	0.693	0.878	2.326	normal	normal
Potassium, dissolved	15	230	0.065	2.153	1.799	2.326	normal	nonparametric
Selenium, total	0	110	0.000					nonparametric
Silver, total	0	110	0.000					nonparametric
Sodium, dissolved	230	230	1.000	5.455	4.401	2.326	non-norm	nonparametric
Specific conductivity	247	247	1.000	7.406	9.434	2.326	non-norm	nonparametric
Sulfate	205	230	0.891	6.308	3.428	2.326	non-norm	nonparametric
Temperature	247	247	1.000	9.091	8.6	2.326	non-norm	nonparametric
Thallium, total	0	110	0.000					nonparametric
Total dissolved solids (tds)	230	230	1.000	5.132	4.585	2.326	non-norm	nonparametric
Total organic carbon (toc)	7	218	0.032	0.146	2.225	2.326	normal	nonparametric
Vanadium, total	109	110	0.991	7.534	7.762	2.326	non-norm	nonparametric
Zinc, total	1	110	0.009					nonparametric

Fit to distribution is confirmed if G <= critical value.
Model type may not match distributional form when detection frequency < 50%.
Data in this table are based on pooled data shown in Table 2-3, outliers excluded

TABLE 2-5
COMPARISON OF UPDATED (2025) PREDICTION LIMITS† TO PREVIOUS YEAR (2024) PREDICTION LIMITS
Olympic View Sanitary Landfill

Constituent	2025 Pred. Limit	unit	Distributional Assumption	Constituent	2024 Pred. Limit	unit	Distributional Assumption
Alkalinity, bicarbonate (as CaCO3)	96	mg/L	nonparametric	Alkalinity, bicarbonate (as CaCO3)	96	mg/L	nonparametric
Alkalinity, total (as CaCO3)	96	mg/L	nonparametric	Alkalinity, total (as CaCO3)	96	mg/L	nonparametric
Ammonia (as N)	0.28	mg/L	nonparametric	Ammonia (as N)	0.28	mg/L	nonparametric
Antimony, total	0.0013	mg/L	nonparametric	Antimony, total	0.0013	mg/L	nonparametric
Arsenic, total	0.482	ugL	normal	Arsenic, total	0.481	ugL	normal
Barium, total	0.0045	mg/L	normal	Barium, total	0.0045	mg/L	normal
Beryllium, total	Current RL*	mg/L	nonparametric	Beryllium, total	Current RL*	mg/L	nonparametric
Cadmium, total	Current RL*	mg/L	nonparametric	Cadmium, total	Current RL*	mg/L	nonparametric
Calcium, dissolved	18	mg/L	nonparametric	Calcium, dissolved	18	mg/L	nonparametric
Chloride	6.3	mg/L	nonparametric	Chloride	4.4	mg/L	nonparametric
Chromium, total	0.019	mg/L	nonparametric	Chromium, total	0.019	mg/L	nonparametric
Cobalt, total	Current RL*	mg/L	nonparametric	Cobalt, total	Current RL*	mg/L	nonparametric
Copper, total	0.0021	mg/L	nonparametric	Copper, total	0.0021	mg/L	nonparametric
Iron, total	0.31	mg/L	nonparametric	Iron, total	0.31	mg/L	nonparametric
Lead, total	0.0014	mg/L	nonparametric	Lead, total	0.0014	mg/L	nonparametric
Magnesium, dissolved	11.2	mg/L	normal	Magnesium, dissolved	11.2	mg/L	normal
Manganese, total	0.11	mg/L	nonparametric	Manganese, total	0.11	mg/L	nonparametric
Nickel, total	0.0055	mg/L	nonparametric	Nickel, total	0.0055	mg/L	nonparametric
Nitrate (as N)	1.6	mg/L	nonparametric	Nitrate (as N)	1.6	mg/L	nonparametric
pH	5.81 - 8.20	units	normal	pH	5.82 - 8.20	units	normal
Potassium, dissolved	1.4	mg/L	nonparametric	Potassium, dissolved	1.4	mg/L	nonparametric
Selenium, total	Current RL*	mg/L	nonparametric	Selenium, total	Current RL*	mg/L	nonparametric
Silver, total	Current RL*	mg/L	nonparametric	Silver, total	Current RL*	mg/L	nonparametric
Sodium, dissolved	7.7	mg/L	nonparametric	Sodium, dissolved	7.7	mg/L	nonparametric
Specific conductivity	0.239	mS/cm	nonparametric	Specific conductivity	0.190	mS/cm	nonparametric
Sulfate	9.9	mg/L	nonparametric	Sulfate	9.9	mg/L	nonparametric
Temperature	14.32	deg C	nonparametric	Temperature	14.32	deg C	nonparametric
Thallium, total	Current RL*	mg/L	nonparametric	Thallium, total	Current RL*	mg/L	nonparametric
Total dissolved solids (tds)	175	mg/L	nonparametric	Total dissolved solids (tds)	175	mg/L	nonparametric
Total organic carbon (toc)	6.0	mg/L	nonparametric	Total organic carbon (toc)	6.0	mg/L	nonparametric
Vanadium, total	0.009	mg/L	nonparametric	Vanadium, total	0.009	mg/L	nonparametric
Zinc, total	0.0056	mg/L	nonparametric	Zinc, total	0.0056	mg/L	nonparametric

† Note that beginning in 2016, Prediction Limits for Trace Metals became based on "total" analyses vs "dissolved" previously

* for background data sets with all non-detected values, a nonparametric prediction limit is the current constituent-specific laboratory reporting limit (RL)

mg/L = milligrams per liter

ug/L = micrograms per liter

mS/cm = milliSiemens per centimeter

deg C = degrees Celsius

3. Annual UCL Calculations using Preliminary Groundwater Cleanup Goals

- 2024 Annual Preliminary Groundwater Cleanup Goals Statistical Evaluation Summary (Table 3-1)

TABLE 3-1: 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat

Data Input (general): 3-year "moving window", updated annually

Data Input (specific): January 1, 2022 through December 31, 2024

Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-15R	Compliance	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-15R	Compliance	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-15R	Compliance	Arsenic, total	6	100%	0.257	0.250	ug/L	LN	4.27	ug/L	No	No
MW-15R	Compliance	Iron, total	6	17%	0.065	0.065	mg/L	A	1.9	mg/L	No	No
MW-15R	Compliance	Manganese, total	6	100%	0.0051	0.0042	mg/L	LN	0.73	mg/L	No	No
MW-15R	Compliance	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-15R	Compliance	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-15R	Compliance	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-15R	Compliance	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-15R	Compliance	Ammonia as N	6	33%	0.045	0.045	mg/L	A	0.19	mg/L	No	No
MW-34A	Compliance	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-34A	Compliance	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-34A	Compliance	Arsenic, total	6	100%	3.0	1.573	ug/L	Z	4.27	ug/L	No	No
MW-34A	Compliance	Iron, total	6	0%	0.06 (ND)	0.06	mg/L	B	1.9	mg/L	No	No
MW-34A	Compliance	Manganese, total	6	33%	0.0014	0.0014	mg/L	A	0.73	mg/L	No	No
MW-34A	Compliance	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-34A	Compliance	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-34A	Compliance	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-34A	Compliance	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-34A	Compliance	Ammonia as N	6	33%	0.075	0.075	mg/L	A	0.19	mg/L	No	No

TABLE 3-1: 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat
Data Input (general): 3-year "moving window", updated annually
Data Input (specific): January 1, 2022 through December 31, 2024
Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-34C	Compliance	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-34C	Compliance	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-34C	Compliance	Arsenic, total	6	100%	21.9	31.6	ug/L	LN	4.27	ug/L	**Yes**	No
MW-34C	Compliance	Iron, total	6	100%	44	44	mg/L	A**	1.9	mg/L	**Yes**	No
MW-34C	Compliance	Manganese, total	6	100%	37	17.5	mg/L	Z	0.73	mg/L	**Yes**	No
MW-34C	Compliance	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-34C	Compliance	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-34C	Compliance	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-34C	Compliance	Vinyl Chloride	6	17%	0.022	0.022	ug/L	A	0.20	ug/L	No	**Yes (▼)**
MW-34C	Compliance	Ammonia as N	6	50%	0.042	0.042	mg/L	A	0.19	mg/L	No	No
MW-39	Compliance	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-39	Compliance	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-39	Compliance	Arsenic, total	6	100%	2.68	2.45	ug/L	N	4.27	ug/L	No	No
MW-39	Compliance	Iron, total	6	100%	41	40	mg/L	LN	1.9	mg/L	**Yes**	No
MW-39	Compliance	Manganese, total	6	100%	0.52	0.50	mg/L	Z	0.73	mg/L	No	No
MW-39	Compliance	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-39	Compliance	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-39	Compliance	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-39	Compliance	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-39	Compliance	Ammonia as N	6	100%	0.94	0.68	mg/L	Z	0.19	mg/L	**Yes**	No

TABLE 3-1: 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat
Data Input (general): 3-year "moving window", updated annually
Data Input (specific): January 1, 2022 through December 31, 2024
Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-42	Compliance	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-42	Compliance	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-42	Compliance	Arsenic, total	6	100%	2.50	2.26	ug/L	LN	4.27	ug/L	No	No
MW-42	Compliance	Iron, total	6	100%	29	27.1	mg/L	LN	1.9	mg/L	Yes	No
MW-42	Compliance	Manganese, total	6	100%	4.0	3.9	mg/L	LN	0.73	mg/L	Yes	Yes (▼)
MW-42	Compliance	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-42	Compliance	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-42	Compliance	Trichloroethene	6	0%	0.46 (ND)	0.47	ug/L	A	1.0	ug/L	No	No
MW-42	Compliance	Vinyl Chloride	6	83%	0.10	0.14	ug/L	LN	0.20	ug/L	No	No
MW-42	Compliance	Ammonia as N	6	100%	7.3	4.8	mg/L	Z	0.19	mg/L	Yes	Yes (▼)
MW-43	Compliance	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-43	Compliance	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-43	Compliance	Arsenic, total	6	83%	0.157	0.322	ug/L	LN	4.27	ug/L	No	No
MW-43	Compliance	Iron, total	6	83%	6.6	6.6	mg/L	A**	1.9	mg/L	Yes	No
MW-43	Compliance	Manganese, total	6	100%	0.14	0.75	mg/L	LN	0.73	mg/L	Yes	Yes (▼)
MW-43	Compliance	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-43	Compliance	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-43	Compliance	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-43	Compliance	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-43	Compliance	Ammonia as N	6	33%	0.044	0.044	mg/L	A	0.19	mg/L	No	Yes (▼)

TABLE 3-1: 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat
Data Input (general): 3-year "moving window", updated annually
Data Input (specific): January 1, 2022 through December 31, 2024
Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-29A	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-29A	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-29A	Downgradient	Arsenic, total	6	100%	2.25	2.09	ug/L	Z	4.27	ug/L	No	No
MW-29A	Downgradient	Iron, total	6	100%	5.0	4.7	mg/L	LN	1.9	mg/L	**Yes**	No
MW-29A	Downgradient	Manganese, total	6	100%	1.4	1.34	mg/L	LN	0.73	mg/L	**Yes**	No
MW-29A	Downgradient	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-29A	Downgradient	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-29A	Downgradient	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-29A	Downgradient	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-29A	Downgradient	Ammonia as N	6	100%	0.15	0.15	mg/L	LN	0.19	mg/L	No	**Yes (▼)**
MW-32	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-32	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-32	Downgradient	Arsenic, total	6	100%	11.4	10.5	ug/L	Z	4.27	ug/L	**Yes**	No
MW-32	Downgradient	Iron, total	6	100%	1.1	0.84	mg/L	Z	1.9	mg/L	No	No
MW-32	Downgradient	Manganese, total	6	100%	2.1	2.1	mg/L	LN	0.73	mg/L	**Yes**	No
MW-32	Downgradient	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-32	Downgradient	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-32	Downgradient	Trichloroethene	6	50%	0.51	0.58	ug/L	LN	1.0	ug/L	No	No
MW-32	Downgradient	Vinyl Chloride	6	100%	0.28	0.25	ug/L	LN	0.20	ug/L	**Yes**	**Yes (▼)**
MW-32	Downgradient	Ammonia as N	6	100%	0.15	0.15	mg/L	LN	0.19	mg/L	No	No

TABLE 3-1: 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat
Data Input (general): 3-year "moving window", updated annually
Data Input (specific): January 1, 2022 through December 31, 2024
Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-33A	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-33A	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-33A	Downgradient	Arsenic, total	6	100%	1.27	2.41	ug/L	LN	4.27	ug/L	No	No
MW-33A	Downgradient	Iron, total	6	100%	8.9	6.4	mg/L	Z	1.9	mg/L	**Yes**	No
MW-33A	Downgradient	Manganese, total	6	100%	0.080	0.053	mg/L	Z	0.73	mg/L	No	No
MW-33A	Downgradient	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-33A	Downgradient	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-33A	Downgradient	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-33A	Downgradient	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-33A	Downgradient	Ammonia as N	6	100%	0.38	0.20	mg/L	Z	0.19	mg/L	**Yes**	No
MW-33C	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-33C	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-33C	Downgradient	Arsenic, total	6	100%	4.31	3.70	ug/L	Z	4.27	ug/L	No	**Yes (▲)**
MW-33C	Downgradient	Iron, total	6	100%	1.7	4.51	mg/L	LN	1.9	mg/L	**Yes**	No
MW-33C	Downgradient	Manganese, total	6	100%	0.96	0.87	mg/L	LN	0.73	mg/L	**Yes**	No
MW-33C	Downgradient	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-33C	Downgradient	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-33C	Downgradient	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-33C	Downgradient	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-33C	Downgradient	Ammonia as N	6	17%	0.059	0.059	mg/L	A	0.19	mg/L	No	No

TABLE 3-1: 2024 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat

Data Input (general): 3-year "moving window", updated annually

Data Input (specific): January 1, 2022 through December 31, 2024

Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-36A	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-36A	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-36A	Downgradient	Arsenic, total	6	100%	0.667	0.635	ug/L	LN	4.27	ug/L	No	No
MW-36A	Downgradient	Iron, total	6	33%	0.096	0.096	mg/L	A	1.9	mg/L	No	No
MW-36A	Downgradient	Manganese, total	6	50%	0.0047	0.018	mg/L	LN	0.73	mg/L	No	No
MW-36A	Downgradient	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-36A	Downgradient	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-36A	Downgradient	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-36A	Downgradient	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-36A	Downgradient	Ammonia as N	6	33%	0.053	0.053	mg/L	A	0.19	mg/L	No	No

NOTES:

[1] N = number of data points used for UCL calculation of the mean; only SIM results used for Vinyl Chloride (e.g., duplicate results with higher RLs by non-SIM were omitted).

[2] MAX = maximum detected result in the data set; if no detected results, then = maximum reporting limit for non-detect results (indicated with ND).

[3] A 3-year moving data set is used for calculation of the UCL.

[4] ug/L - micrograms per liter; mg/L = milligrams per liter.

[5] Groundwater Cleanup Levels for VOCs are from Table 3 of the Oct 2010 Draft Cleanup Action Plan; and for As, Fe, Mn and Ammonia-N from the July 15, 2021 Ecology letter approving Groundwater Quality Standards

[6] Trend analysis results are based on data for the period January 2005 through December 2023; arrows indicated increasing (▲) or decreasing (▼) trends.

A = Detection frequency of data set too low and/or N too few to calculate 95% UCL of mean; therefore, the highest detected result in the data set used to represent 95% UCL of mean.

A* = Same as note "A" except that the highest value in the data set is below the reporting limit of one or more non-detected results; therefore, the highest reporting limit is used to represent the 95% UCL of the mean.

A** = MTCAStat suggests use of lognormal formula but calculation of 95% UCL of mean by Land's formula provides unrealistic result; therefore, the highest detected result is used to represent the 95% UCL of the mean.

A*** = MTCAStat suggests use of the Z-score method but then cites inability to calculate due to presence of censored values; therefore, the highest detected result is used to represent the 95% UCL of the mean.

B = Detection frequency = 0; therefore, the highest reporting limit in the data set is used to represent the 95% UCL of mean.

LN = The 95% UCL of the mean is calculated using Land's formula since lognormal distribution is indicated.

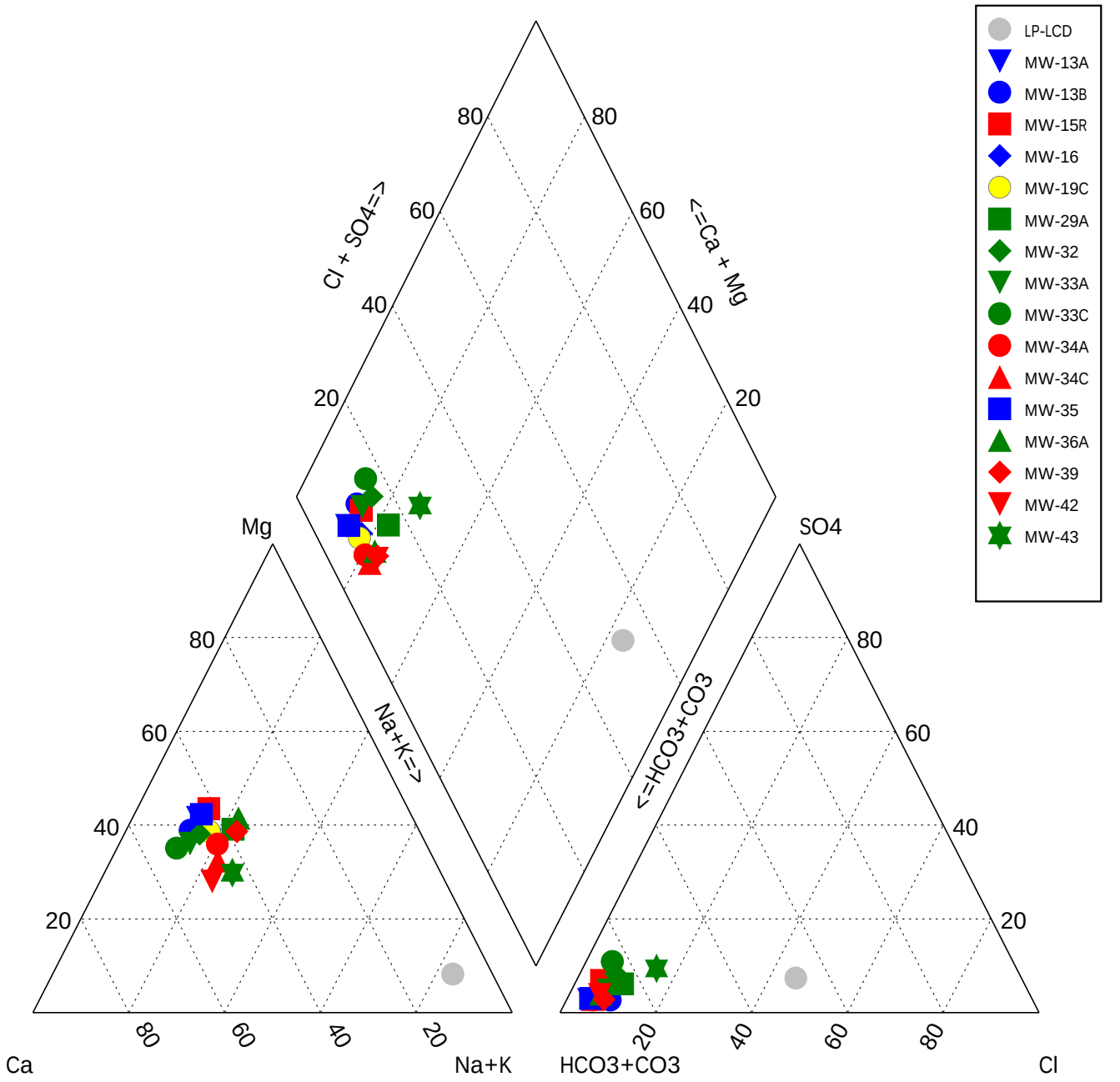
N = The 95% UCL of the mean is calculated using a normal-based t-statistic since a normal distribution is indicated.

Z = the 95% UCL of the mean is calculated using the Z-score method in MTCAStat since neither normal nor lognormal distribution can be determined.

Appendix D

November 2024 Groundwater Geochemical Evaluation

2024 Annual Report - Piper Diagram



DESCRIPTION: Piper Diagram

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.28
	CLIENT: Waste Management Closed Sites	DATE: March 2025

Cation/Anion Balance Report
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

MW-13A				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	-0.373	No
	Sum of anions	meq/L	1.91	
	Sum of cations	meq/L	1.894	
	Sum of ions	meq/L	3.80	
MW-13B				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	-3.03	No
	Sum of anions	meq/L	2.00	
	Sum of cations	meq/L	1.882	
	Sum of ions	meq/L	3.88	
MW-15R				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	1.436	No
	Sum of anions	meq/L	1.635	
	Sum of cations	meq/L	1.683	
	Sum of ions	meq/L	3.32	
MW-16				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	0.819	No
	Sum of anions	meq/L	1.47	
	Sum of cations	meq/L	1.493	
	Sum of ions	meq/L	2.96	
MW-19C				
11/13/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	0.858	No
	Sum of anions	meq/L	1.606	
	Sum of cations	meq/L	1.633	
	Sum of ions	meq/L	3.24	
MW-29A				
11/13/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	-3.10	No
	Sum of anions	meq/L	0.898	
	Sum of cations	meq/L	0.844	
	Sum of ions	meq/L	1.74	
MW-32				
11/13/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	0.76	No
	Sum of anions	meq/L	3.27	
	Sum of cations	meq/L	3.32	
	Sum of ions	meq/L	6.59	

Cation/Anion Balance Report
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

MW-33A				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	-0.813	No
	Sum of anions	meq/L	1.136	
	Sum of cations	meq/L	1.118	
	Sum of ions	meq/L	2.254	
MW-33C				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	2.12	No
	Sum of anions	meq/L	1.647	
	Sum of cations	meq/L	1.718	
	Sum of ions	meq/L	3.365	
MW-34A				
11/13/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	3.865	No
	Sum of anions	meq/L	2.015	
	Sum of cations	meq/L	2.177	
	Sum of ions	meq/L	4.19	
MW-34C				
11/13/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	2.64	No
	Sum of anions	meq/L	1.895	
	Sum of cations	meq/L	1.998	
	Sum of ions	meq/L	3.89	
MW-35				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	1.089	No
	Sum of anions	meq/L	1.79	
	Sum of cations	meq/L	1.828	
	Sum of ions	meq/L	3.62	
MW-36A				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	0.523	No
	Sum of anions	meq/L	1.357	
	Sum of cations	meq/L	1.37	
	Sum of ions	meq/L	2.73	
MW-39				
11/14/2024				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	-1.338	No
	Sum of anions	meq/L	1.90	
	Sum of cations	meq/L	1.85	
	Sum of ions	meq/L	3.75	

Cation/Anion Balance Report
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

MW-42 **11/13/2024**				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	3.516	No
	Sum of anions	meq/L	3.94	
	Sum of cations	meq/L	4.23	
	Sum of ions	meq/L	8.18	
MW-43 **11/13/2024**				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	-5.38	No
	Sum of anions	meq/L	0.614	
	Sum of cations	meq/L	0.552	
	Sum of ions	meq/L	1.166	
LP-LCD **11/19/2024**				
	Function	Unit	Value	Exceedance
	E.N. (Balance)	%	2.67	No
	Sum of anions	meq/L	39.70	
	Sum of cations	meq/L	41.90	
	Sum of ions	meq/L	81.60	

Appendix E

Landfill Gas Monitoring Results

Table E1. 10 Year Historical Results of Methane (CH_4) Measurements
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Date Monitored	OV-GP-07	OV-GP-08	OV-GP-9S	OV-GP-9D	OV-GP10S	OV-GP10D	OV-GP11S	OV-GP11D	OV-GP12S	OV-GP12M	OV-GP12D	OV-GP13S	OV-GP13M	OV-GP13D	OV-GP14	OV-GP15	OV-GP16
12/5/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/24/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/15/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/1/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/8/2023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/7/2023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/16/2023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/2/2023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/17/2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0
9/29/2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/11/2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/29/2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/16/2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	0.0	0.0	2.2	0.0
10/19/2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
6/11/2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
3/17/2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.1	0.0	0.0	0.0	0.5	0.0
11/18/2020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/21/2020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
6/5/2020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
3/11/2020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0
11/14/2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
8/5/2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
4/22/2019	0.0	0.0	0.0	0.0	—	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/28/2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/23/2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/10/2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/16/2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3/14/2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/22/2017	—	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.5	0.0
8/28/2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0
5/30/2017	0.0	0.0	0.0	—	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0
3/17/2017	—	0.0	0.0	—	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0
11/15/2016	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
9/20/2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6/27/2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/24/2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
12/15/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/29/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/7/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0
3/30/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.2	0.0

Notes:
OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Detected CH4>0.3% vol.
— Screened interval submerged

Table E2. 10 Year Historical Results of Carbon Dioxide (CO_2) Measurements
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Port Orchard, Washington

Date Monitored	OV-GP-07	OV-GP-08	OV-GP-9S	OV-GP-9D	OV-GP10S	OV-GP10D	OV-GP11S	OV-GP11D	OV-GP12S	OV-GP12M	OV-GP12D	OV-GP13S	OV-GP13M	OV-GP13D	OV-GP14	OV-GP15	OV-GP16
12/5/2024	9.8	5.3	2.3	1.6	0.9	0.7	3.2	2.7	1.0	0.9	1.4	4.5	4.2	4.1	5.8	8.1	3.3
9/24/2024	11.1	6.3	1.8	1.2	0.7	0.6	3.2	2.0	1.6	1.3	1.3	4.4	4.0	3.9	7.5	11.0	3.1
5/15/2024	7.2	3.6	1.7	1.1	0.7	0.6	2.7	1.7	1.0	1.0	0.8	4.6	3.4	3.3	4.1	5.1	2.9
2/1/2024	6.2	4.0	1.8	1.5	0.8	0.7	2.6	1.9	2.1	2.1	1.2	5.2	4.0	3.9	3.8	8.1	2.5
11/8/2023	10.8	3.3	1.9	1.4	0.8	0.7	2.4	2.0	0.9	0.8	1.5	5.1	4.2	3.9	8.0	7.6	3.5
9/7/2023	10.3	5.4	1.8	1.4	0.7	0.6	2.4	1.9	1.3	1.0	1.3	4.2	3.6	3.6	7.1	8.2	2.4
5/16/2023	6.6	3.2	1.4	1.1	0.5	0.4	2.2	0.4	0.9	1.3	0.0	4.4	3.4	3.4	3.8	4.5	2.7
2/2/2023	6.2	3.5	1.6	1.5	0.6	0.7	2.1	1.4	1.6	1.5	0.3	4.6	4.2	3.9	4.7	4.1	2.0
11/17/2022	9.8	6.3	1.5	1.5	0.7	0.7	2.4	2.2	1.7	0.9	0.9	1.7	4.5	4.5	7.5	10.2	2.5
9/29/2022	10.9	5.5	1.8	1.4	0.6	0.7	2.1	2.5	1.4	1.1	1.2	1.8	4.1	4.2	7.4	9.7	2.5
7/11/2022	7.4	3.8	2.5	1.3	0.4	0.6	1.0	2.8	0.5	1.3	1.2	3.1	3.2	4.5	4.7	5.5	4.0
3/29/2022	4.7	2.7	1.8	0.1	0.7	0.7	1.7	2.5	0.1	0.1	1.1	0.1	3.5	4.5	4.0	0.1	2.0
12/16/2021	2.5	4.3	2.7	1.7	1.0	0.8	3.0	2.4	1.3	1.5	—	5.5	4.4	4.1	5.5	6.4	3.5
10/19/2021	11.3	6.6	2.2	1.6	0.9	0.8	2.5	2.4	1.7	1.5	1.7	4.9	4.3	4.2	8.4	9.2	3.8
6/11/2021	8.0	3.7	2.1	1.5	0.8	0.7	3.2	2.4	1.3	1.2	1.2	4.5	3.7	3.7	6.1	6.8	3.0
3/17/2021	5.4	3.1	2.1	1.6	0.8	0.8	2.7	2.0	1.5	1.3	—	4.6	3.6	3.4	4.4	4.4	2.4
11/18/2020	11.2	4.4	2.5	1.4	1.1	0.9	3.1	2.8	1.8	1.7	1.7	5.3	4.5	4.4	9.2	9.4	4.2
9/21/2020	11.5	6.3	2.0	1.4	0.9	0.7	2.9	2.4	0.1	1.4	1.4	3.9	3.8	3.7	8.5	11.1	3.1
6/5/2020	8.9	3.8	2.2	1.4	0.8	0.7	3.0	2.1	1.3	1.2	1.0	4.3	3.3	3.2	6.1	6.1	4.3
3/11/2020	6.8	3.0	2.2	1.5	0.9	0.8	2.7	—	1.1	1.4	—	4.5	3.8	3.5	5.0	5.7	2.5
11/14/2019	10.9	6.3	2.3	1.5	1.1	0.8	2.9	2.7	1.6	1.5	1.5	4.3	4.0	3.8	8.6	11.2	4.1
8/5/2019	10.8	4.4	1.6	1.1	0.6	0.5	2.7	1.3	1.1	1.1	0.8	3.7	3.4	3.0	7.5	9.0	3.0
4/22/2019	7.7	3.1	2.2	1.8	—	—	3.0	0.7	0.9	1.2	0.9	4.0	3.5	2.8	6.5	0.1	2.8
3/28/2019	6.5	2.9	2.1	1.7	0.7	0.8	2.5	0.7	0.9	0.9	0.9	3.6	3.6	1.9	4.2	0.2	2.1
10/23/2018	10.0	0.1	1.6	1.4	0.7	0.7	2.1	0.6	1.1	1.0	1.4	3.0	3.6	3.1	7.6	9.5	2.2
9/10/2018	10.6	5.6	1.9	1.3	0.7	0.6	2.5	0.6	1.2	1.0	1.3	3.2	3.4	3.2	7.7	9.8	2.1
5/16/2018	5.8	2.1	1.1	1.7	0.6	0.5	0.8	2.5	0.9	1.6	0.6	3.4	3.0	1.7	4.3	5.2	2.3
3/14/2018	4.5	2.2	1.8	1.3	0.8	0.7	2.3	1.0	0.9	1.1	0.7	3.4	3.3	1.1	4.3	6.0	2.0
11/22/2017	—	3.7	2.0	1.6	0.9	0.7	2.7	—	1.3	1.2	—	3.4	3.6	0.0	6.5	5.8	2.8
8/28/2017	8.9	4.8	2.2	1.1	0.7	0.5	3.0	—	1.0	1.2	—	3.2	2.4	2.9	6.3	1.6	2.3
5/30/2017	4.5	1.1	2.3	—	0.8	0.6	3.2	—	1.0	2.5	—	3.5	3.2	—	4.7	3.7	1.5
3/17/2017	—	1.2	1.7	—	0.6	0.7	0.0	—	1.1	1.4	—	3.4	3.3	0.0	3.4	4.2	1.6
11/15/2016	8.2	3.6	2.1	1.4	0.9	0.7	2.2	1.5	1.2	1.3	0.4	3.0	2.6	0.2	5.6	6.6	1.5
9/20/2016	11.2	5.0	2.2	1.4	0.5	0.3	1.9	0.6	0.9	0.9	0.7	1.8	2.5	0.1	2.0	3.0	2.0
6/27/2016	7.3	2.8	1.9	1.0	0.7	0.5	1.0	2.9	1.0	1.1	0.5	2.8	2.4	0.3	5.8	3.3	2.5
3/24/2016	3.1	1.4	1.8	1.3	0.7	0.7	2.1	2.1	1.7	1.6	1.1	3.3	3.3	2.1	4.8	4.3	2.4
12/15/2015	6.4	2.3	1.9	1.6	0.9	0.7	2.6	2.0	1.2	1.0	1.0	3.9	3.5	1.6	5.9	3.5	3.8
9/29/2015	10.8	6.2	1.6	1.5	0.6	0.7	2.0	2.6	0.9	1.0	1.3	2.9	1.9	0.2	8.7	9.4	4.0
5/7/2015	7.9	3.6	2.6	1.7	0.9	0.8	3.6	—	1.1	2.4	—	3.4	3.3	0.0	6.1	5.0	4.5
3/30/2015	6.2	2.0	2.4	1.7	0.9	0.8	3.3	—	1.3	1.4	—	0.8	3.3	3.4	5.7	6.5	3.8

Notes:
OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Detected CO2>0.3% vol.
— Screened interval submerged

Table E3. 10 Year Historical Results of Oxygen (O_2) Measurements
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Port Orchard, Washington

Date Monitored	OV-GP-07	OV-GP-08	OV-GP-9S	OV-GP-9D	OV-GP10S	OV-GP10D	OV-GP11S	OV-GP11D	OV-GP12S	OV-GP12M	OV-GP12D	OV-GP13S	OV-GP13M	OV-GP13D	OV-GP14	OV-GP15	OV-GP16
12/5/2024	5.9	9.0	18.9	19.8	20.7	20.3	17.9	18.8	18.6	19.3	17.1	15.4	15.9	16.5	8.0	0.2	18.1
9/24/2024	7.7	9.7	18.6	18.8	19.3	17.9	17.1	17.7	16.4	17.3	15.1	16.6	15.9	15.8	7.3	0.4	17.7
5/15/2024	5.7	10.7	18.7	18.1	19.5	18.6	17.3	16.9	18.7	18.9	17.2	16.1	16.3	16.5	6.2	5.1	16.8
2/1/2024	5.8	6.2	17.9	18.9	19.9	18.5	18.5	18.8	16.9	16.9	17.4	15.9	16.7	16.8	7.5	6.0	18.2
11/8/2023	5.8	13.8	19.5	20.1	20.5	20.2	18.0	18.9	19.3	20.2	16.5	16.0	16.2	16.1	6.4	1.7	17.1
9/7/2023	9.0	11.3	19.4	19.2	20.3	19.5	19.2	18.8	17.8	19.9	15.9	20.7	20.9	20.9	8.6	7.4	18.9
5/16/2023	6.1	10.5	18.9	19.1	19.2	18.1	16.9	18.4	19.3	18.9	19.4	15.4	16.3	16.5	7.9	2.8	17.2
2/2/2023	6.5	11.0	19.5	19.8	20.5	19.0	19.0	19.4	18.3	18.6	21.0	15.9	16.1	16.3	8.4	0.0	19.6
11/17/2022	9.2	10.5	19.5	19.7	19.3	20.0	18.9	18.9	16.8	20.4	20.7	19.5	16.7	17.6	9.5	0.0	19.5
9/29/2022	8.0	11.2	20.2	19.7	19.6	20.3	18.2	18.1	14.8	19.5	19.7	18.5	15.8	17.3	20.6	4.4	19.2
7/11/2022	3.8	8.0	17.8	18.3	19.1	19.8	17.9	17.5	18.8	19.2	18.4	16.8	16.0	15.1	5.2	5.6	16.5
3/29/2022	6.0	20.9	19.2	21.1	18.8	20.5	18.3	18.7	21.1	21.1	20.3	21.1	16.6	16.2	7.6	21.2	18.6
12/16/2021	16.3	5.4	18.3	19.4	20.3	19.7	17.8	18.4	20.1	19.9	—	15.5	16.5	16.7	7.0	0.4	17.2
10/19/2021	6.4	7.9	19.0	19.4	20.2	19.7	18.3	18.8	17.7	18.6	16.0	16.3	16.6	16.6	8.1	0.3	17.1
6/11/2021	7.4	10.4	19.5	19.3	20.8	19.5	18.8	19.2	18.8	19.4	18.2	17.2	16.6	16.7	6.2	0.0	18.7
3/17/2021	5.0	8.9	19.5	18.7	20.5	18.8	18.6	18.5	19.2	19.2	—	16.8	17.5	16.8	5.9	0.0	18.6
11/18/2020	4.3	10.8	19.0	19.8	20.4	19.9	18.4	18.9	18.3	18.9	16.9	16.0	16.4	16.4	3.5	0.7	16.7
9/21/2020	8.0	9.9	19.3	19.1	20.3	19.6	18.9	18.7	20.9	18.7	15.8	17.6	16.7	16.6	6.6	0.1	18.4
6/5/2020	5.8	9.5	17.9	18.6	19.7	18.8	17.7	18.3	18.5	19.0	17.9	16.5	17.0	17.2	5.0	0.2	16.1
3/11/2020	4.1	10.5	19.1	18.7	20.7	19.0	18.9	—	21.0	20.5	—	17.2	17.7	18.1	7.1	0.3	18.2
11/14/2019	5.6	8.9	19.3	10.8	20.7	20.4	18.9	19.3	18.9	19.4	17.6	17.6	17.5	17.5	5.0	0.1	17.3
8/5/2019	7.7	11.1	21.7	21.7	22.5	21.8	20.6	21.7	19.7	20.6	19.7	18.6	18.0	19.7	7.1	0.0	19.5
4/22/2019	6.3	11.7	19.7	19.9	—	—	19.1	21.5	21.1	20.9	20.1	17.6	17.1	18.2	5.7	20.1	18.7
3/28/2019	5.5	12.1	19.3	19.2	20.6	19.1	18.9	21.0	20.6	20.6	19.1	17.5	17.4	19.6	8.3	21.6	19.2
10/23/2018	8.8	20.8	20.0	19.7	20.9	20.1	19.7	21.1	20.0	20.3	16.8	18.7	17.5	18.5	9.6	5.4	19.6
9/10/2018	8.8	10.4	19.7	19.7	20.9	20.0	19.5	20.8	17.9	19.6	15.4	17.7	16.7	17.1	8.8	4.0	19.2
5/16/2018	6.2	11.6	19.1	18.8	19.7	18.4	19.8	17.6	19.4	19.3	19.9	17.2	16.9	18.6	7.0	4.2	18.4
3/14/2018	6.1	10.5	19.9	19.3	20.8	19.3	17.4	19.6	20.5	19.9	18.7	17.6	17.4	20.2	5.4	1.5	19.2
11/22/2017	—	10.0	18.9	19.2	20.2	19.7	18.9	—	19.7	19.7	—	17.7	17.4	21.2	7.6	0.1	17.8
8/28/2017	7.8	8.6	18.7	18.5	20.1	18.9	18.1	—	16.4	16.4	—	17.3	17.0	16.1	8.0	16.1	19.0
5/30/2017	4.6	13.3	18.3	—	20.2	18.6	17.5	—	19.9	19.2	—	17.2	16.3	—	6.5	10.4	18.7
3/17/2017	—	8.8	18.2	—	20.0	18.1	0.0	—	19.7	19.1	—	17.7	17.0	0.0	6.7	1.1	19.2
11/15/2016	4.7	4.0	17.5	18.9	19.7	19.4	18.3	19.1	18.3	18.1	20.0	16.6	17.8	20.7	8.2	0.0	17.3
9/20/2016	7.7	11.9	19.7	19.6	20.5	20.7	19.2	19.9	19.5	20.0	17.8	18.5	17.9	21.1	15.8	16.8	18.8
6/27/2016	6.8	11.3	19.3	18.6	20.2	19.3	18.7	18.2	19.7	19.9	19.4	18.5	17.5	20.6	8.0	7.0	18.5
3/24/2016	9.7	6.7	18.4	18.8	20.1	18.2	17.5	15.6	18.7	18.8	17.7	16.7	15.9	18.5	4.9	0.0	17.6
12/15/2015	5.9	3.7	18.6	19.7	20.1	19.3	18.3	17.5	20.7	20.3	18.8	16.6	17.3	19.0	5.0	5.7	16.1
9/29/2015	7.0	7.8	19.8	19.6	20.4	19.6	19.2	18.5	19.9	19.6	16.2	17.4	18.4	20.4	7.4	5.0	16.6
5/7/2015	4.1	7.0	19.0	19.4	20.2	18.9	17.6	—	18.9	18.3	—	16.9	16.6	20.7	5.5	5.5	16.0
3/30/2015	4.5	9.4	18.6	19.0	20.3	18.9	17.7	—	19.3	18.3	—	19.7	17.1	17.7	5.0	0.1	16.3

Notes:
OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Depressed O2<20.3% vol.
— Screened interval submerged

Table E-4. 2024 Landfill Gas Collection (at Flare Inlet)
2024 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Device Name	Date Time	CH4 (Methane %)	CO_2 (Carbon Dioxide %)	O2 (Oxygen %)	Balance Gas (%)	Temperature (°F)	Flow (SCFM)
OV-FL-IN	1/2/2024 13:05	22.8	16.4	1.7	59.1	45.40	128.3
OV-FL-IN	1/8/2024 13:54	21.4	16.5	1.4	60.7	44.50	120.3
OV-FL-IN	1/22/2024 17:30	23.7	16.9	1.4	58.0	51.90	113.8
OV-FL-IN	1/29/2024 13:13	23.3	16.6	0.9	59.2	54.30	118.0
OV-FL-IN	2/5/2024 13:34	24.6	16.8	1.4	57.2	49.10	122.2
OV-FL-IN	2/12/2024 9:23	22.2	16.4	1.1	60.3	49.50	107.2
OV-FL-IN	2/19/2024 7:59	32.8	18.0	1.0	48.2	46.90	159.0
OV-FL-IN	2/26/2024 9:39	21.6	15.5	2.4	60.5	47.10	120.5
OV-FL-IN	3/4/2024 10:39	20.8	15.9	1.5	61.8	50.10	96.3
OV-FL-IN	3/12/2024 12:40	21.9	16.1	1.2	60.8	54.10	91.0
OV-FL-IN	3/18/2024 12:20	26.1	16.9	1.5	55.5	76.90	142.5
OV-FL-IN	3/25/2024 10:19	19.8	14.6	2.7	62.9	57.90	122.9
OV-FL-IN	4/1/2024 12:08	18.5	14.6	2.6	64.3	58.70	112.6
OV-FL-IN	4/8/2024 11:16	19.1	14.8	2.7	63.4	50.30	164.4
OV-FL-IN	4/15/2024 12:22	17.9	13.9	3.2	65.0	56.70	117.8
OV-FL-IN	4/22/2024 11:04	21.0	14.1	2.8	62.1	74.00	136.3
OV-FL-IN	4/29/2024 11:00	20.6	14.9	2.2	62.3	63.70	123.5
OV-FL-IN	5/13/2024 10:17	19.4	14.8	2.2	63.6	62.90	117.3
OV-FL-IN	5/20/2024 14:10	19.2	14.9	1.9	64.0	78.90	121.0
OV-FL-IN	5/28/2024 10:20	27.4	16.6	1.7	54.3	61.90	143.3
OV-FL-IN	6/3/2024 12:56	21.4	15.1	1.9	61.6	79.00	114.4
OV-FL-IN	6/10/2024 12:25	18.9	14.6	2.0	64.5	70.50	118.7
OV-FL-IN	6/17/2024 11:57	20.0	14.7	2.0	63.3	75.90	125.4
OV-FL-IN	6/25/2024 15:58	23.1	15.7	1.2	60.0	104.80	148.4
OV-FL-IN	7/1/2024 14:13	25.4	16.5	1.3	56.8	85.40	142.7
OV-FL-IN	7/2/2024 12:02	19.6	15.2	2.1	63.1	73.90	129.7
OV-FL-IN	7/8/2024 10:32	20.3	15.1	1.7	62.9	95.70	130.4
OV-FL-IN	7/22/2024 9:57	20.1	15.2	2.0	62.7	65.70	132.4
OV-FL-IN	7/29/2024 10:13	20.7	15.5	1.8	62.0	69.10	134.4
OV-FL-IN	8/5/2024 14:09	32.0	17.5	1.5	49.0	94.50	162.5
OV-FL-IN	8/12/2024 10:42	21.0	15.6	2.0	61.4	76.40	133.9
OV-FL-IN	8/19/2024 10:06	19.3	15.0	1.9	63.8	77.10	130.0
OV-FL-IN	8/26/2024 10:58	19.8	16.2	0.3	63.7	71.00	139.8
OV-FL-IN	9/2/2024 13:41	26.5	16.4	0.9	56.2	78.10	145.6
OV-FL-IN	9/9/2024 12:18	20.9	15.8	2.2	61.1	77.80	133.7
OV-FL-IN	9/11/2024 12:02	23.0	15.5	1.9	59.6	75.90	137.0
OV-FL-IN	9/17/2024 11:12	22.3	16.3	1.9	59.5	65.30	135.7
OV-FL-IN	9/23/2024 12:17	20.5	15.8	2.1	61.6	69.10	132.9
OV-FL-IN	10/3/2024 9:25	21.7	16.2	1.9	60.2	60.20	151.3
OV-FL-IN	10/7/2024 10:11	23.5	17.0	1.6	57.9	57.70	157.1
OV-FL-IN	10/14/2024 13:44	24.0	16.8	1.5	57.7	61.30	150.3
OV-FL-IN	10/21/2024 9:42	28.9	17.8	1.1	52.2	57.40	156.5
OV-FL-IN	10/29/2024 11:52	19.2	15.7	2.5	62.6	57.50	129.3
OV-FL-IN	11/4/2024 13:37	20.7	16.3	1.5	61.5	54.50	149.5
OV-FL-IN	11/11/2024 10:34	24.1	16.7	1.0	58.2	56.80	135.7
OV-FL-IN	11/19/2024 11:11	21.1	16.0	1.7	61.2	49.70	132.6
OV-FL-IN	11/25/2024 10:37	20.7	16.1	1.7	61.5	49.50	121.9
OV-FL-IN	12/2/2024 10:56	20.8	15.6	2.2	61.4	50.00	140.4
OV-FL-IN	12/16/2024 11:24	29.0	17.4	0.8	52.8	48.50	165.5
OV-FL-IN	12/23/2024 10:41	20.8	15.6	2.0	61.6	50.70	117.6
Annualized Averege LFG Component (%, °F or scfm)		**22.27**	**15.88**	**1.75**	**60.10**	**63.88**	**132.27**
Estimated Volume of LFG Removed During 2024 (MMscf)							**69.52**

-- = measurement not taken

% = percent by volume

°F = degrees Fahrenheit

scfm = standard cubic foot per minute

MMscf = million cubic feet

Figure E-1: LFG Probe Methane Timeseries

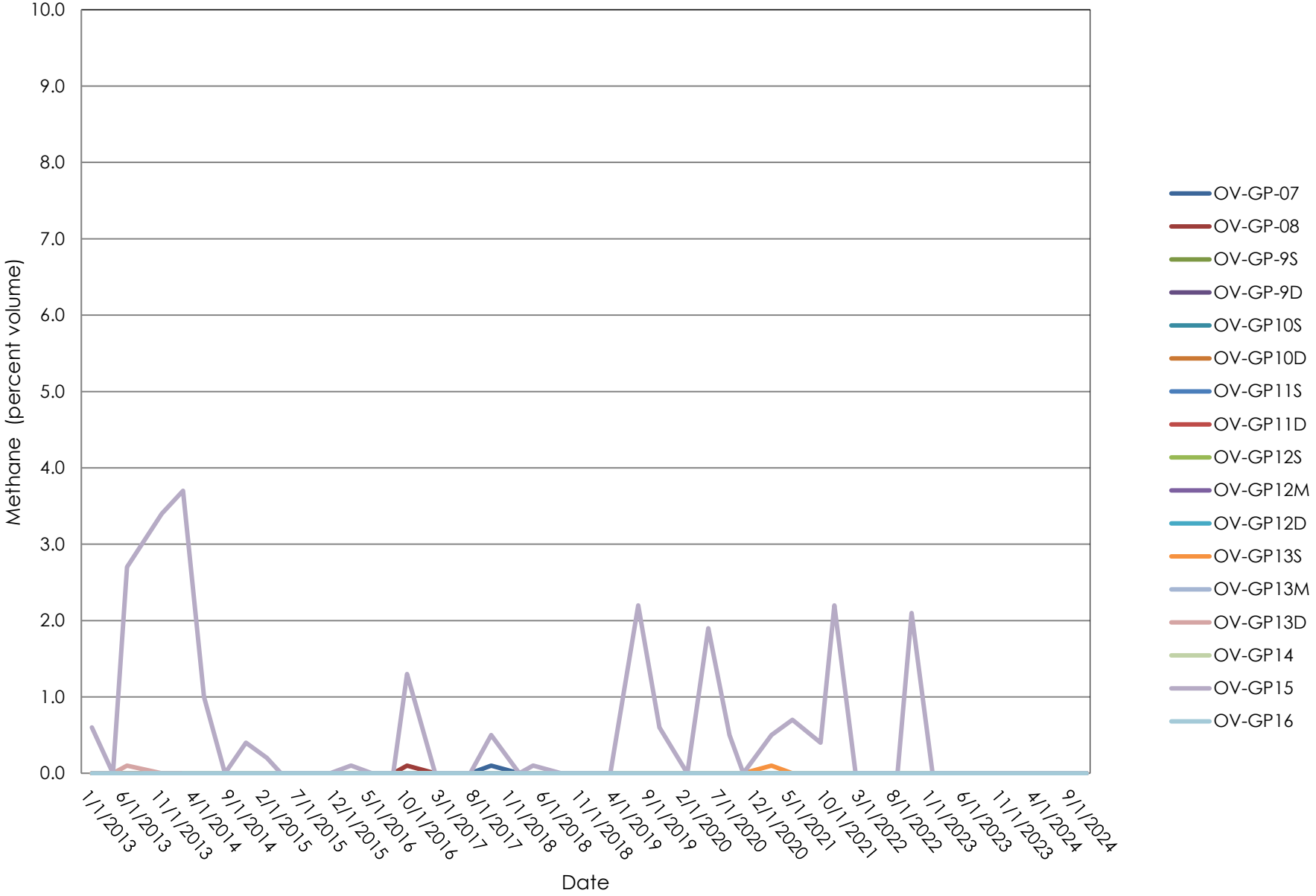


Figure E-2: LFG Probe Carbon Dioxide Timeseries

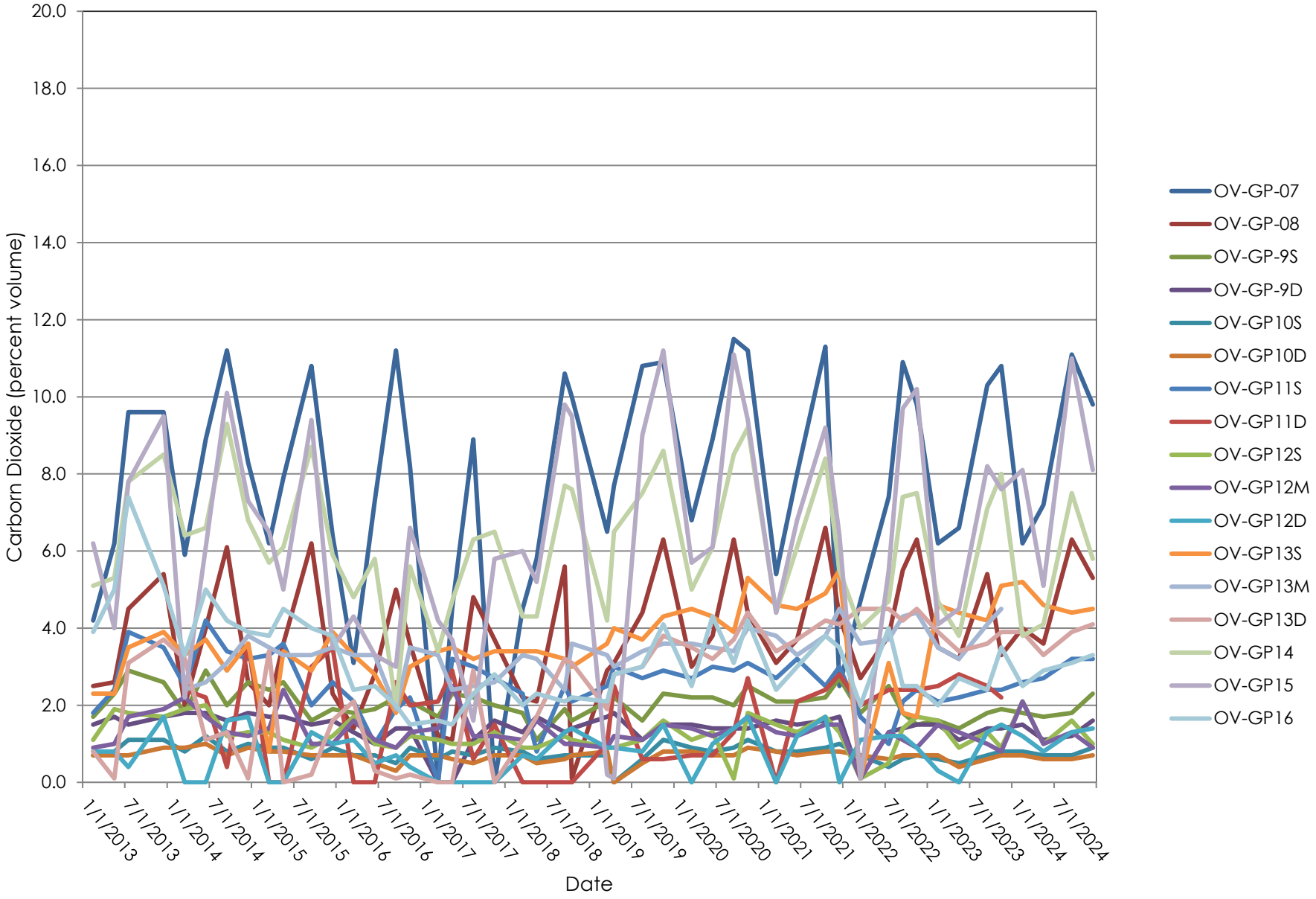


Figure E-3: LFG Probe Depressed Oxygen Timeseries

