May 27, 2022

Alexis McKinnon
Solid Waste Specialist
Kitsap County Public Works
Solid Waste Division
614 Division Street, MS-27
Port Orchard, WA 98366

Re: First Quarter 2022 Environmental Monitoring Report
Hansville Landfill, Kitsap County, Washington
Project No. 160423-005-05.1

Dear Alexis:

This quarterly report summarizes the results of environmental monitoring conducted at the Hansville Landfill (Site) during the first quarter of 2022, and was prepared by Aspect Consulting, LLC (Aspect) on behalf of Kitsap County Public Works Solid Waste Division (County) and Waste Management of Washington (WMW). Ongoing environmental monitoring at the Site supports the selected remedy of natural attenuation of groundwater with enhanced monitoring and institutional controls that was established under Amended Consent Decree No. 95-2-03005-1 (August 5, 2011).

The data sets presented in this letter report were collected in accordance with the Site Cleanup Action Plan (CAP; Ecology, 2011) and the "Compliance Monitoring Plan with Sampling & Analysis Plan and Quality Assurance Plan" (SCS, 2011; herein referred as Compliance Monitoring Plan), except where otherwise noted.

Conditions monitored at the Site during the first quarter of 2022 were consistent with historical trends showing improvements in protection of human health and the environment. This report is organized consistent with quarterly reporting topics listed in the Compliance Monitoring Plan (SCS, 2011), and includes:

- Site monitoring and maintenance activities, along with a discussion of any deviations from the CAP, or required tasks not otherwise documented in project plans
- Landfill gas monitoring results and gas collection system adjustments
- Determination of groundwater flow direction and gradient, including a groundwater surface elevation contour map
- Water quality sampling results, including tabulated field data and laboratory analyses

Also included are time-series plots and projected trends in groundwater concentrations for selected analytes at selected monitoring locations. Finally, this report discusses geochemical parameters as indicators of landfill effects on groundwater and surface water.

Site Activities – First Quarter 2022

Site activities during the reporting period included environmental monitoring of landfill gas, groundwater, and surface water. Documentation of the quarterly activities is presented the following attachments:

- Attachment A presents landfill gas monitoring data.
- Attachment B presents groundwater elevations, a groundwater contour map, and groundwater and surface water quality analytical results.
- Attachment C presents summary statistics, time-series graphs, and graphs of projected groundwater concentrations for arsenic and vinyl chloride at selected monitoring wells.
- Attachment D presents supporting field records, laboratory data reports, and chain-of-custody documentation.

A chronology of on-Site monitoring activities performed during the first quarter 2021 is provided below:

- On January 19, 2022, Aspect completed groundwater and surface water sampling in accordance with the Compliance Monitoring Plan (SCS, 2011). In addition, Aspect conducted monthly performance monitoring of the blower system and condensate management system.
- On February 17, 2022, Aspect conducted monthly performance monitoring of the blower system and condensate management system. In addition, Aspect collected a landfill gas sample from between the blower outlet and the flare for laboratory analysis in support of air quality analysis.
- On March 4, 2022, Aspect conducted landfill gas monitoring in accordance with the Compliance Monitoring Plan (SCS, 2011) and inspected the blower system for proper operation. Aspect monitored landfill gas concentrations at the blower, extraction wells, and at compliance monitoring probes. Extraction well flow rates were adjusted to ensure capture of landfill gasses, as necessary.

Collection of landfill gas samples is ongoing, and results of the air quality analysis will be presented in a separate document at the completion of the work, anticipated for later this year.

Deviations from the Compliance Monitoring Plan

There were no deviations from the Compliance Monitoring Plan (SCS, 2011) during the first quarter 2022 environmental monitoring.

Summary of Landfill Gas Conditions

The following sections provide a discussion of landfill gas monitoring and gas extraction system performance. The layout of the landfill gas extraction system is shown on Figure A-1.

Landfill Gas Monitoring

Aspect monitored landfill gas concentrations at the blower on January 19, 2022, and on February 17, 2022. Aspect monitored landfill gas concentrations at the blower, extraction wells, and compliance monitoring probes on March 4, 2022.

Landfill gas concentrations were measured with a calibrated GEM-5000 multi-gas meter. Landfill gas monitoring parameters collected for the compliance monitoring event are summarized in Table A-1, and listed below:

- Landfill gas composition measurements included methane (CH_4), carbon dioxide (CO_2), oxygen (O_2), and balance gas (Balance) concentrations.
- Collection system pressure measurements included the static pressure measured before and after any valve adjustments, reported as "initial" and "adjusted," respectively.
- Collection system flow-rate measurements were obtained at all locations via orifice plates. The differential pressure and gas temperature were measured to calculate flow. Table A-1 presents flow rates measured after valve adjustments, reported as "adjusted."

Landfill Gas System Performance

During the compliance monitoring event on March 4, 2022, observed conditions remained within the normal range. Methane and carbon dioxide concentrations at the blower inlet were approximately 5.9 percent by volume and 15.2 percent by volume, respectively. The oxygen concentration was approximately 2.4 percent by volume. Flow rates were approximately 78 standard cubic feet per minute (scfm) during the first quarter. Wellfield optimization will continue to focus on maximizing methane and carbon dioxide collection rates.

During the first quarter of 2022, the 2,000-gallon condensate storage tank contained approximately 625 gallons. The condensate recovery system operated successfully throughout the first quarter 2022.

Explosive Gas Control

Methane was not detected in any of the compliance gas probes during the compliance monitoring event on March 4, 2022. Locations of on-property compliance probes GP-1, GP-2S, GP-2M, GP-2D, GP-3, GP-4, GP-5, and GP-6 are shown on Figure A-1, and the location of off-property compliance probe GP-7 is shown on Figure B-1. Carbon dioxide concentrations ranged from 0.1 to 4.4 percent by volume, reflecting natural conditions.

Summary of Groundwater and Surface Water Conditions

This section addresses groundwater and surface water conditions based on the monitoring event on January 19, 2022. Samples were collected from six groundwater monitoring wells and from four surface water monitoring locations (see Figure B-1) for laboratory analysis.

Groundwater Flow

Groundwater flow conditions during the first quarter of 2022 were consistent with those observed during previous monitoring events. Groundwater surface elevations were calculated using water levels measured January 19, 2022 (see Table B-1). Groundwater elevations ranged from 238.2 feet North American Vertical Datum of 1988 (NAVD88) in MW-12I to 266.2 feet NAVD88 in the upgradient, background monitoring well MW-5. The direction of groundwater flow at the Site was west across the landfill then shifts southwest, consistent with historical observations. Groundwater gradients ranged from 0.0068 feet over feet (feet/feet) in the upgradient areas, to 0.012 feet/feet further downgradient, with the gradient steepening near the groundwater discharge area (Figure B-1).

Groundwater and Surface Water Quality

Groundwater quality results from the first quarter of 2022 are presented in Table B-2, including field parameters, conventional parameters, dissolved metals, and volatile organic compounds. During the reporting period, dissolved arsenic concentrations in groundwater were below the Site-specific cleanup level of 0.005 milligrams per liter (mg/L) at all monitoring wells except MW-14 (0.0125 mg/L) and MW-13D (0.00512 mg/L). Dissolved manganese concentrations were below the Site-specific cleanup level of 2.24 mg/L. Vinyl chloride concentrations in groundwater were below the Site-specific groundwater cleanup level of 0.025 micrograms per liter (µg/L) at all monitoring wells except MW-6 (0.042 µg/L), MW-12I (0.037 µg/L), and MW-14 (0.074 µg/L); consistent with historical results.

Surface water quality results from the first quarter 2022 are presented in Table B-3, including field parameters, conventional parameters, dissolved metals, and volatile organic compounds. During the reporting period, dissolved arsenic concentrations in surface water were below the Site-specific cleanup level of 0.005 mg/L at all monitoring locations. Dissolved manganese concentrations in surface water were below the Site-Specific cleanup level of 2.24 mg/L. Vinyl chloride concentrations in surface water were not detected at a reporting limit below the Site-specific cleanup level of 0.025 µg/L.

Time-Series Plots and Projected Trends

Groundwater sampling results since 2007 are shown on time-series plots for dissolved arsenic (Figure C-1) and vinyl chloride (Figure C-2) at all compliance monitoring locations. Figure C-1 shows that dissolved arsenic concentrations in groundwater have been less than the cleanup level of 0.005 mg/L at MW-5 (background well), MW-6, MW-7, and MW-12I. Historically, dissolved arsenic concentrations at MW-13D were below the cleanup level and appear to have stabilized near the cleanup level since about 2019. Dissolved arsenic concentrations at MW-14 have historically exceeded the Site-specific cleanup level and have been decreasing steadily over time.

Figure C-2 shows vinyl chloride concentrations in groundwater have been less than the cleanup level of 0.025 µg/L at MW-5 (background well), MW-7, and MW-13D. The concentrations of vinyl chloride at MW-6, MW-12I, and MW-14 have historically exceeded the Site-specific cleanup level and have been decreasing over time. The vinyl chloride concentration at MW-14 during the first quarter of 2022 is slightly higher than concentrations in 2021 but remain consistent with the historical decreasing trend.

Figure C-3 shows time-series plots of historical and 10-year projected groundwater concentrations for MW-6 (vinyl chloride), MW-12I (vinyl chloride), MW-14 (vinyl chloride and arsenic), and MW-13D (arsenic). The projected restoration time frames for vinyl chloride concentrations range from approximately 2 to 7 years. In the event that the slowly increasing trend for dissolved arsenic at MW-13D continues, concentrations may regularly exceed the cleanup level but will remain below the Puget Sound regional background of 8 µg/L (Ecology, 2016) for more than 10 years. The projected restoration time frame for arsenic in groundwater at MW-14 is more than 10 years. Maintaining landfill gas collection performance may achieve groundwater cleanup levels within a shorter time frame than shown on Figure C-3.

Statistical Evaluation of Groundwater Trends

Statistically significant decreasing trends in dissolved arsenic and/or vinyl chloride concentrations were identified at monitoring wells MW-6, MW-12I, and MW-14. We attribute the decreasing trends to the cleanup actions at the Site, and project concentrations will continue to decrease to Site-specific cleanup levels as described above and shown in Figure C-3.

A statistically significant increasing trend in dissolved arsenic concentrations was identified at monitoring well MW-13D. Dissolved arsenic concentrations exceeded the Site-specific cleanup levels during this monitoring period and remain below the regional natural background value provided by Ecology (Ecology, 2016) as shown in Figure C-3. Statistical trend analysis for dissolved arsenic concentrations in MW-13D has been conducted since the 2019 Annual Environmental Monitoring Report (Aspect, 2020). As previously noted in the 2019 Report, based on the data available, it is likely that arsenic concentrations since 2007 reflect natural variations or off-Site influences, as opposed to effects from the Hansville Landfill Site. Dissolved arsenic concentrations in MW-13D and other locations continue to be closely monitored and evaluated.

Table C-1 provides results of statistical analysis for arsenic and vinyl chloride for monitoring wells MW-6, MW-12I, MW-13D, and MW-14. The trends are defined as "statistically significant" because the magnitude of the Mann-Kendall Test Value (Z) was greater than the Critical Value (which is based on the number of data points and alpha). A negative Sen's Slope indicates a decreasing trend in concentrations while a positive Sen's Slope indicates an increasing trend.[1] These statistics confirm what is visually apparent on Figure C-3 showing historical groundwater concentrations.

The statistical analysis of groundwater data was performed in accordance with the Compliance Monitoring Plan (SCS, 2011) for historical data collected since January 23, 2007. The program Sanitas WQStat (ver. 9.0.34) was used to evaluate the Mann-Kendall Test and Sen's Slope. Mann-Kendall testing was performed to assess whether there were statistically significant trends in groundwater concentrations using the two-tailed test (alpha = 0.05). Mann-Kendall results are reported as an approximated normal distribution Test Value "Z" (where the number of data points was greater than 40). Sen's slope analysis was performed to identify the trend direction for statistically significant trends and reflects the median of the slopes of all pairs of historical data.

[1] Sen's slope values reflect the median of the slopes of historical data pairs, and were provided in units of µg/L per day in reports by SCS through 2016. Starting in 2017, Sen's slope values will be provided in units of µg/L per year, to support interpretation. For comparison, Table C-1 provides Sen's slope values for both units.

Geochemical Parameters

Geochemical parameters in groundwater and surface water serve as indicators of landfill effects and can distinguish leachate impacts from gas-to-groundwater impacts. As shown in Tables B-2 and B-3, geochemical parameters collected at the Site include field parameters (dissolved oxygen, pH, Redox [reduction-oxidation potential], specific conductivity, and temperature), alkalinity/carbonate/bicarbonate, chloride, nitrate/nitrite/ammonia, sulfate, and total organic carbon.

Based on low concentrations of geochemical parameters identified as leachate indicators (such as chloride, sulfate, alkalinity, and bicarbonate) across the Site, there appears to be little if any leachate effect on groundwater and surface water quality. However, the downgradient monitoring wells show lower dissolved oxygen concentrations than the upgradient well (MW-5), which is likely caused by landfill gas coming in contact with groundwater directly beneath the landfill. Increasing the rate of landfill gas collection may prevent geochemically-mediated effects on groundwater.

References

Aspect Consulting, LLC, 2020, 2019 Annual Environmental Monitoring Report, Hansville Landfill, Kitsap County, Washington, February 28, 2020.

SCS Engineers (SCS), 2011, Compliance Monitoring Plan with Sampling & Analysis Plan and Quality Assurance Plan – Remedial Action at the Hansville Landfill, September 15, 2011.

Washington State Department of Ecology (Ecology), 2011, Cleanup Action Plan Hansville Landfill, Kitsap County, Washington, Ecology Facility Site Identification Number: 2605, June 2011.

Washington State Department of Ecology (Ecology), 2016, Natural Background Groundwater Arsenic Concentrations in Washington State, Ecology Publication No. 14-09-044, March 2016.

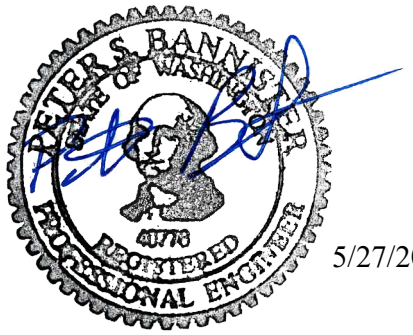
Limitations

Work for this project was performed for the Kitsap County Public Works (Client), and this letter was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This letter does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Sincerely,

Aspect consulting, LLC



5/27/2022

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Attachments:
A – Landfill Gas Data
B – Water Quality Results
C – Groundwater Statistics and Time-Series Plots
D – Field Forms and Laboratory Reports

cc: Phil Perley, Waste Management of Washington
Patrick Hamel, Kitsap Public Health District
Cris Matthews, Washington State Department of Ecology
Sam Phillips, Port Gamble S'Klallam Tribe

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ATTACHMENT A

Landfill Gas Data

Table A-1. Landfill Gas Data, First Quarter, 2022

Project No. 160423, Hansville Landfill, Hansville, Washington

Location	Device ID	Date/Time	Methane CH4 (% by vol)	Carbon Dioxide CO2 (% by vol)	Oxygen O2 (% by vol)	Balance Bal (% by vol)	Static Pressure (inches H2O)		Gas Temperature (degrees F)		Flow Rate (SCFM)	
							Initial	Adjusted	Initial	Adjusted	Initial	Adjusted
Blower Inlet	HANSBLIN	3/4/2022 6:13	5.9	15.2	2.4	76.5	-5.31	-5.31	45	45.6	79.8	78.4
Blower Outlet	HANSBLOT	3/4/2022 6:16	5.9	15.2	2.4	76.5	N/A	N/A	N/A	N/A	N/A	N/A
Extraction Well 001	HANSR001	3/4/2022 6:56	8.2	14.5	0	77.3	-0.6	-0.6	46.4	46.4	0.4	0.4
Extraction Well 002	HANSR002	3/4/2022 6:48	3.1	15.4	3.8	77.7	N/A	N/A	N/A	N/A	N/A	N/A
Extraction Well 003	HANSR003	3/4/2022 7:58	11.1	15	0	73.9	-1.19	-1.19	51.5	51.5	3.4	3.3
Extraction Well 004	HANSR004	3/4/2022 7:45	4.5	18.1	0.5	76.9	-1.69	-1.69	59.2	59.2	2.8	2.5
Extraction Well 005	HANSR005	3/4/2022 7:41	6.3	19.5	0.4	73.8	-1.1	-1.1	62.4	62.5	2.8	2.8
Extraction Well 006	HANSR006	3/4/2022 7:32	4.1	12.6	7.7	75.6	-1.61	-1.61	74	74	3.2	3.3
Extraction Well 007	HANSR007	3/4/2022 7:19	0.2	16.2	1.9	81.7	-1.29	-1.29	58.2	58.3	2.6	2.6
Extraction Well 008	HANSR008	3/4/2022 7:14	7.6	18.7	0	73.7	-0.83	-0.83	49.8	49.8	1.2	1.3
Extraction Well 009	HANSR009	3/4/2022 7:06	2.2	14.4	3.6	79.8	N/A	N/A	N/A	N/A	N/A	N/A
Extraction Well 010	HANSR010	3/4/2022 7:01	8.5	11.2	3.8	76.5	-0.79	-0.79	48.3	48.3	0.7	0.6
Extraction Well 011	HANSR011	3/4/2022 6:44	5.2	9.2	0	85.6	-0.67	-0.67	46.3	46.3	0.3	0.3
Extraction Well 012	HANSR012	3/4/2022 6:29	15.6	4.7	0	79.7	-1.15	-1.15	46.2	46.2	1	1
Extraction Well 013	HANSR013	3/4/2022 7:23	5.6	14.5	1.7	78.2	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TD-1	HANSTD01	3/4/2022 8:06	2.1	20.6	0	77.3	-0.05	-0.05	53.4	53.4	13.8	13.7
Trench Collector TR-1	HANSTR01	3/4/2022 7:36	0.4	13.8	4.8	81	-0.93	-0.93	55	55	2.4	2.7
Trench Collector TR-2	HANSTR02	3/4/2022 7:10	12.7	16.7	0	70.6	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-3	HANSTR03	3/4/2022 6:52	11.5	16.7	0	71.8	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-4	HANSTR04	3/4/2022 7:49	1.2	18	0.5	80.3	-0.89	-0.89	52.7	52.8	2.8	2.4
Trench Collector TR-5	HANSTR05	3/4/2022 6:39	6.2	16.8	1.6	75.4	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-6	HANSTR06	3/4/2022 6:34	13.9	16.5	0.7	68.9	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-7	HANSTR07	3/4/2022 7:53	13.8	15.8	0.8	69.6	-0.93	-0.93	48.6	48.6	2.7	2.9
Gas Probe 1	HANSGP01	3/4/2022 13:15	0	1	19.7	79.3	0.05	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Shallow	HANSGP2S	3/4/2022 12:30	0	0.3	20.6	79.3	0.02	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Middle	HANSGP2M	3/4/2022 12:40	0	1.2	19	79.1	0.02	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Deep	HANSGP2D	3/4/2022 12:50	0	1.5	17.8	79.8	0.08	N/A	N/A	N/A	N/A	N/A
Gas Probe 3	HANSGP03	3/4/2022 11:45	0	1.2	20.1	80.7	-0.01	N/A	N/A	N/A	N/A	N/A
Gas Probe 4	HANSGP04	3/4/2022 12:00	0	1.9	19.7	78.7	0	N/A	N/A	N/A	N/A	N/A
Gas Probe 5	HANSGP05	3/4/2022 11:30	0	0.1	20.9	78.4	0.01	N/A	N/A	N/A	N/A	N/A
Gas Probe 6	HANSGP06	3/4/2022 11:10	0	4.4	15.3	79	0	N/A	N/A	N/A	N/A	N/A
Gas Probe 7	HANSGP07	3/4/2022 12:15	0	3	18.8	80.3	0.05	N/A	N/A	N/A	N/A	N/A

Notes

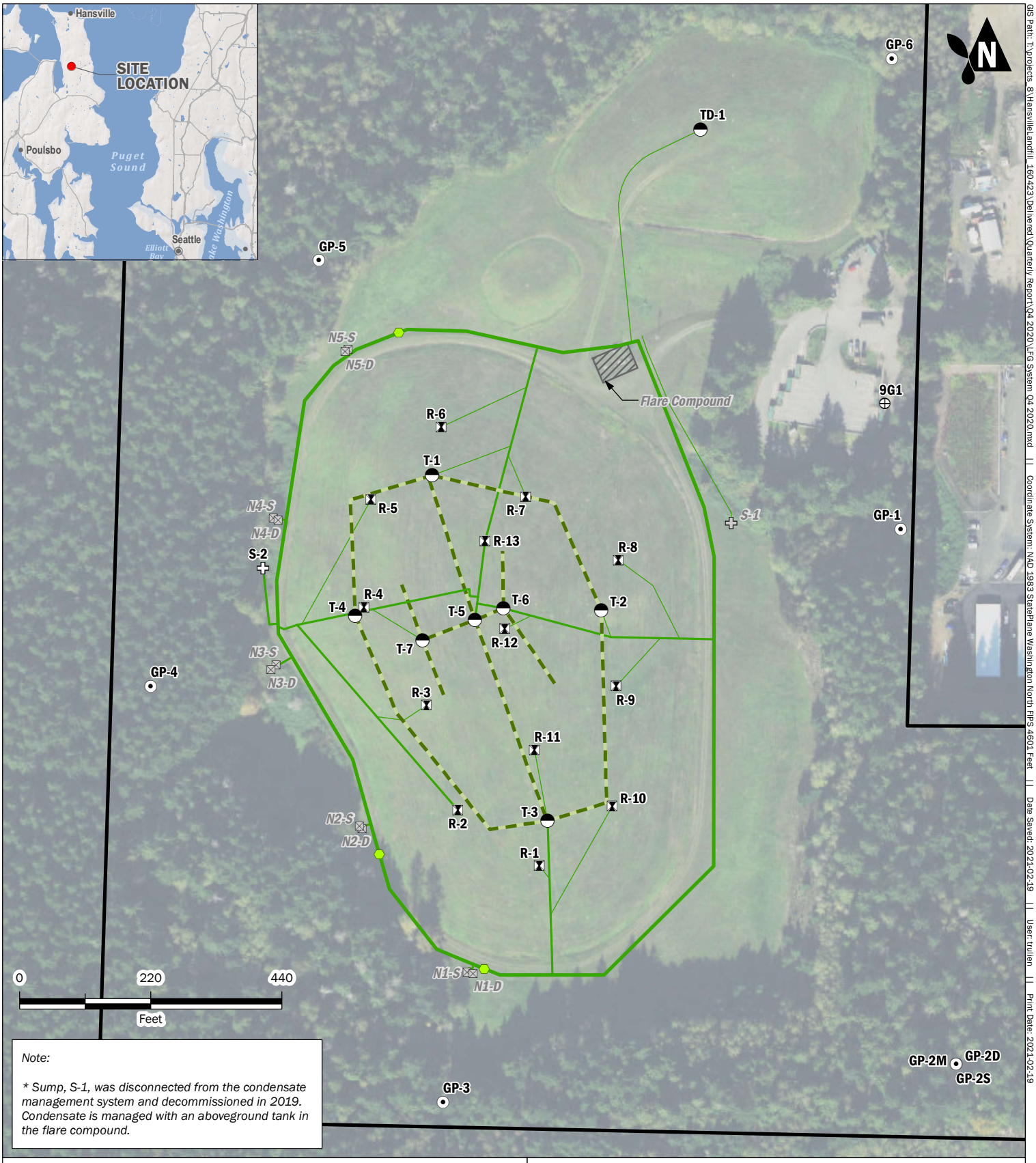
Flow rates measured using orifice plates (where installed).

N/A = indicates parameter not measured.

inches H2O = inches water column

degrees F = degrees Fahrenheit

(--) = indicates location was not monitored and has been decommissioned due to little to no landfill gas collection



Note:

** Sump, S-1, was disconnected from the condensate management system and decommissioned in 2019. Condensate is managed with an aboveground tank in the flare compound.*

Exploration

- Gas Detection Probe
- Gas Extraction Well (in Refuse Completion)
- Gas Extraction Well (Native Soil Completion) *Disconnected in October, 2019*
- Trench Completion
- Well Geologic Control
- Condensate Sump
- Condensate Sump* *Decomissioned in 2019*

Landfill Gas System

- LFG Pipe - 2"
- LFG Pipe - 4"
- LFG Pipe - 6"
- Trench
- LFG Valve
- Landfill Boundary

Landfill Gas System

2022 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, Washington

Aspect Consulting	APR-2022	BY: MLK / RAP	FIGURE NO. A-1
	PROJECT NO. 160423	REVISED BY: MLK	

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GIS Path: T:\projects_8\Hansville Landfill_160423\Delivered\Quarterly Report\Q4 2020\LFG System Q4 2020.mxd || Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet || Date Saved: 2021-02-19 || User: trullen || Print Date: 2021-02-19

ATTACHMENT B

Water Quality Results

Table B-1. Water Level Elevations

Project No. 160423, Hansville Landfill, Hansville, WA

Well	Ground Elevation (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Screen Elevation (ft NAVD88)		Depth to Water (ft)	Water Level Elevation (ft NAVD88)
			Top	Bottom		
MW-5	363.7	366.9	244	234	100.75	266.2
MW-6	332.0	332.7	260	245	74.88	257.8
MW-7	344.3	346.0	259	244	85.72	260.3
MW-12I	245.6	248.1	217	207	9.87	238.2
MW-13D	258.1	260.4	205	195	11.51	248.9
MW-14	338.6	341.1	262	247	81.41	259.7

Notes

Depths to water collected January 19, 2022.

Elevations relative to North American Vertical Datum of 1988 (NAVD88).

ft = feet

Table B-2. Groundwater Quality Results

Project No. 160423, Hansville Landfill, Hansville Washington

		Location	MW-5	MW-6	MW-7	MW-12I	MW-13D	MW-14
		Date	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022
Parameter	**Units**	**Site Cleanup Level**						
Field Parameters								
Dissolved Oxygen	mg/L		**7.89**	**0.29**	**0.36**	**0.36**	**0.3**	**0.39**
pH	pH units		**7.24**	**7.23**	**6.58**	**7.36**	**7.69**	**7.21**
Redox	mV		**194.1**	**139.4**	**125.2**	**197.8**	**160.1**	**146.6**
Specific Conductivity	uS/cm		**79.3**	**144.9**	**99.3**	**65**	**79.9**	**91.5**
Temperature	deg C		**10.3**	**12.3**	**9.3**	**9.6**	**10.3**	**10.5**
Turbidity	NTU		**1.37**	**1.07**	**2.08**	**1.69**	**1.87**	**1.26**
Conventionals								
Alkalinity	mg/L		**73**	**130**	**120**	**67**	**74**	**100**
Ammonia (as N)	mg/L		0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Bicarbonate	mg/L		**73**	**130**	**120**	**67**	**74**	**100**
Carbonate	mg/L		10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L		3 U	**5.8**	3 U	**3.8**	**5.1**	**3.2**
Nitrate (as N)	mg/L		**3.01**	**3.46**	**0.157**	0.1	0.1	0.1
Nitrite (as N)	mg/L		0.1	**0.303**	0.1	0.1	0.1	0.1
Orthophosphate (as P)	mg/L		**0.1**	0.1	0.1	0.1	0.1	0.1
Sulfate	mg/L		**7.6**	**21**	5 U	**6**	**15**	**7.6**
Total Organic Carbon	mg/L		1 U	1 U	**1.5**	**2**	1 U	1 U
Dissolved Metals								
Arsenic	ug/L	5.0	**1.8**	**1.89**	**1.24**	**2.42**	**5.12**	**12.5**
Manganese	ug/L	2240	1 U	**330**	**1.4**	**30**	**6.3**	**1800**
Volatile Organic Compounds (VOCs)								
Vinyl Chloride	ug/L	0.025	0.02 U	0.042	0.02 U	0.037	0.02 U	0.074

Notes

Bold text = Analyte was detected

Shaded Cell = Result exceeded Site Cleanup level

U = Not detected at or above the Reporting Limit shown

UJ = Analyte not detected and the Reporting Limit is an estimate

mg/L = milligram per liter

mV = millivolts

uS/cm = microSiemens per centimeter

deg C = degrees Celsius

NTU = Nephelometric Turbidity Units

ug/L = microgram per liter

Table B-3. Surface Water Quality Results

Project No. 160423, Hansville Landfill, Hansville Washington

		Location	SW-1	SW-4	SW-6	SW-7
		Date	01/19/2022	01/19/2022	01/19/2022	01/19/2022
Parameter	Units	Site Cleanup Level				
Field Parameters						
Dissolved Oxygen	mg/L		**9.83**	**10.52**	**9.96**	**11.34**
pH	pH units		**7.47**	**7.78**	**7.03**	**7.37**
Redox	mV		**163**	**167.8**	**176.4**	**-251.7**
Specific Conductance	uS/cm		**128**	**206.8**	**74.2**	**82**
Temperature	deg C		**9**	**8.2**	**7.6**	**7.8**
Turbidity	NTU		**2.19**	**3.53**	**10.8**	**4.25**
Conventionals						
Alkalinity	mg/L		**69**	**120**	**38**	**40**
Ammonia (as N)	mg/L		0.03 U	0.03 U	0.03 U	0.03 U
Bicarbonate	mg/L		**69**	**120**	**38**	**40**
Carbonate	mg/L		10 U	10 U	10 U	10 U
Chloride	mg/L		**4.5**	**10**	**3.8**	**3.8**
Nitrate (as N)	mg/L		**1.74**	**0.854**	0.1	**1.21**
Nitrite (as N)	mg/L		0.1	0.1	0.1	0.1
Orthophosphate (as P)	mg/L		0.1	0.1	0.1	0.1
Sulfate	mg/L		**8.5**	**17**	**5.2**	**5.8**
Total Organic Carbon	mg/L		**2.5**	**11**	**22**	**12**
Dissolved Metals						
Arsenic	ug/L	5.0	**1.63**	**1.83**	**2.35**	**1.13**
Manganese	ug/L	2240	**1.5**	**38**	**32**	**2.6**
Volatile Organic Compounds (VOCs)						
Vinyl Chloride	ug/L	0.025	0.02 U	0.02 U	0.02 U	0.02 U

Notes

Bold text = Analyte was detected

Shaded Cell = Result exceeded Site Cleanup level

U = Not detected at or above the Reporting Limit shown

mg/L = milligram per liter

mg/L = milligram per liter

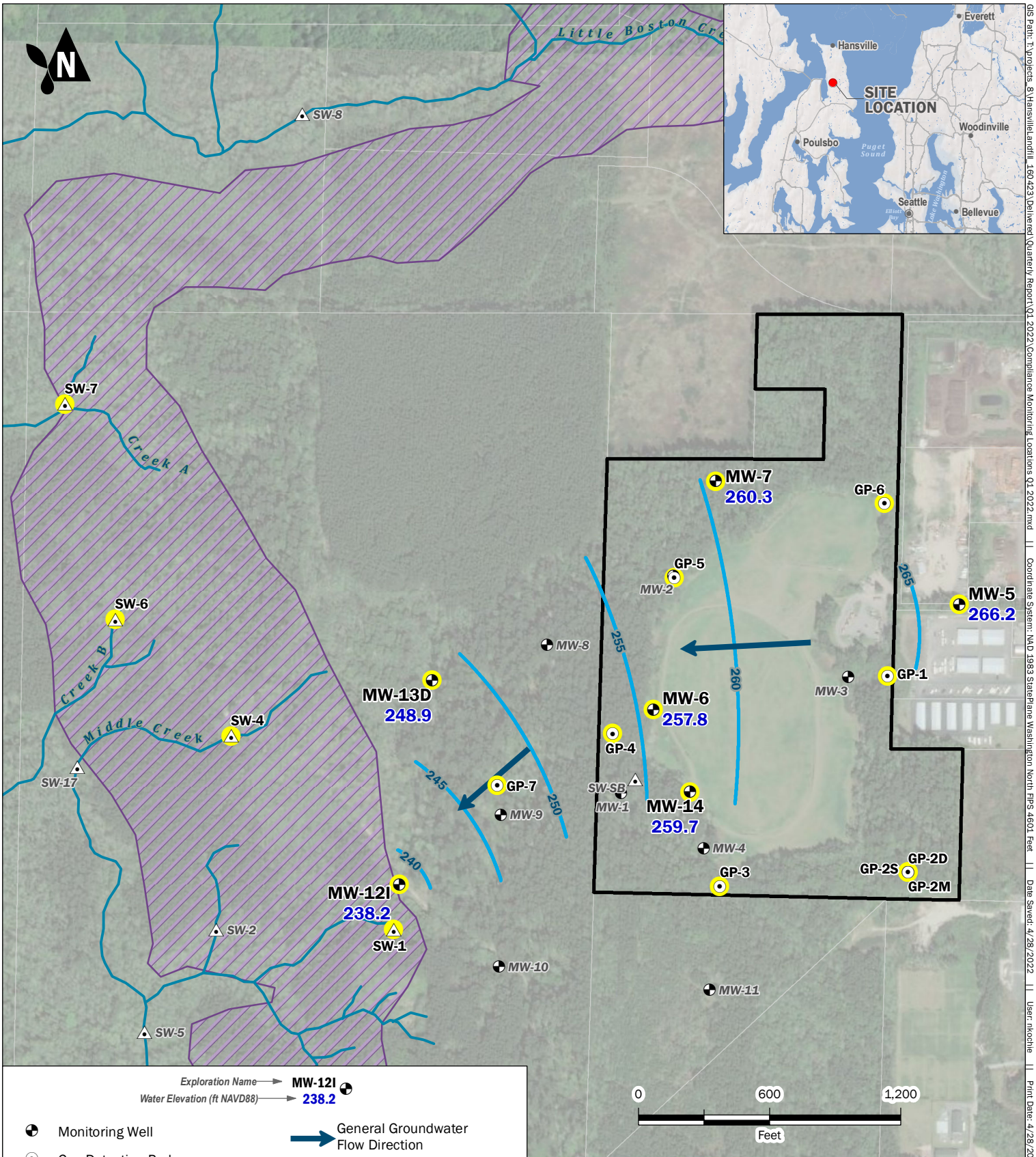
mV = millivolts

uS/cm = microSiemens per centimeter

deg C = degrees Celsius

NTU = Nephelometric Turbidity Units

ug/L = microgram per liter



Exploration Name → MW-12I
Water Elevation (ft NAVD88) → 238.2

- Monitoring Well
- Gas Detection Probe
- Surface Water Station
- Compliance Monitoring Location
- Water Elevation Contour (ft NAVD88, dashed where inferred) *Measured January 19th, 2022*
- General Groundwater Flow Direction
- Approximate Area of Groundwater Discharge from Upper Aquifer
- Stream
- Landfill Boundary
- Tax Parcel

Note: Vertical datum is NAVD88. Approximate area of groundwater discharge from upper aquifer delineation from Remedial Investigation Report (Parametrix, 2006).

Compliance Monitoring Locations

2022 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, Washington

Aspect Consulting	JAN-2022	BY: MLK / RAP	FIGURE NO. B-1
	PROJECT NO. 160423	REVISED BY: NLK	

Basemap Layer Credits || Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

GIS Path: T:\projects_8\HansvilleLandfill_160423\Delivered\Quarterly Report\Q1 2022\Compliance Monitoring Locations Q1 2022.mxd || Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet || Date Saved: 4/28/2022 || User: nkochle || Print Date: 4/28/2022

ATTACHMENT C

Groundwater Statistics and Time-Series Plots

Table C-1. Statistical Analysis

Project 160423, Hansville Landfill, Hansville, WA

Dissolved Arsenic Statistical Results

Well	Statistical Trend[1]	Mann-Kendall Test[2]				Sen's Slope	
		Test Value, Z	Critical Value	Number of data points, n	Statistical Significance	(ug/L per day)	(ug/L per year)
MW-5	--[3]	--	--	--	--	--	--
MW-6	--	--	--	--	--	--	--
MW-7	--	--	--	--	--	--	--
MW-12I	--	--	--	--	--	--	--
MW-13D	Increasing	7.8	1.96	60	Yes	5.2E-04	0.191
MW-14	Decreasing	-7.9	-1.96	60	Yes	-2.9E-03	-1.066

Vinyl Chloride Statistical Results

Well	Statistical Trend[1]	Mann-Kendall Test[2]				Sen's Slope	
		Test Value, Z	Critical Value	Number of data points, n	Statistical Significance	(ug/L per day)	(ug/L per year)
MW-5	--[3]	--	--	--	--	--	--
MW-6	Decreasing	-7.9	-1.96	60	Yes	-6.5E-05	-0.024
MW-7	--	--	--	--	--	--	--
MW-12I	Decreasing	-7.3	-1.96	60	Yes	-7.6E-05	-0.028
MW-13D	--	--	--	--	--	--	--
MW-14	Decreasing	-8.9	-1.96	60	Yes	-8.9E-05	-0.033

Notes

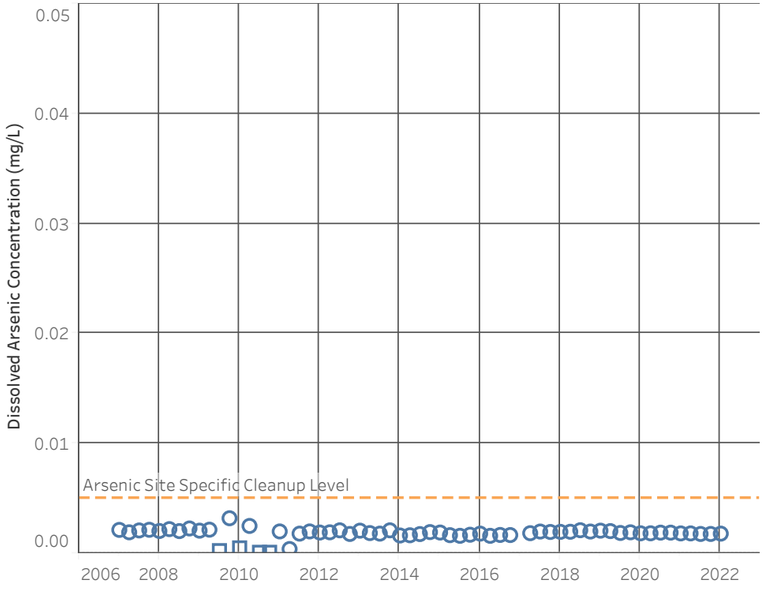
1 - The Statistical Trend indicates:
"Non-significant" if the magnitude of the Test Value is less than the Critical Value,
"Increasing" if the magnitude of the Test Value is greater than the Critical Value and the Sen's Slope is positive, or
"Decreasing" if the magnitude of the Test Value is greater than the Critical Value and the Sen's Slope is negative.

2 - Mann-Kendall tests were performed with alpha = 0.05 (95% confidence level).
For N>40, Mann-Kendall uses an approximation of a normal distribution, represented by Test Value Z.

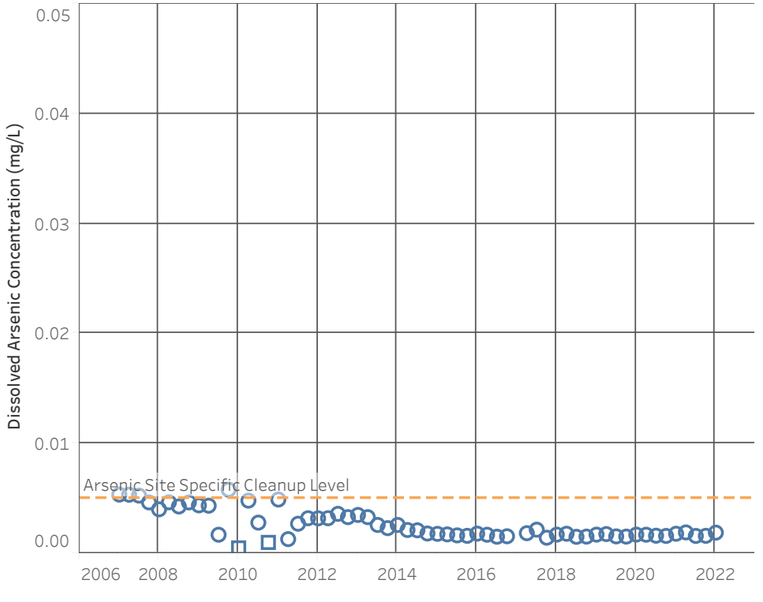
3 - "--" Indicates statistical analysis not conducted.
ug/L - micrograms per liter

4 - Data range is from 2nd quarter 2006 through 1st quarter 2022

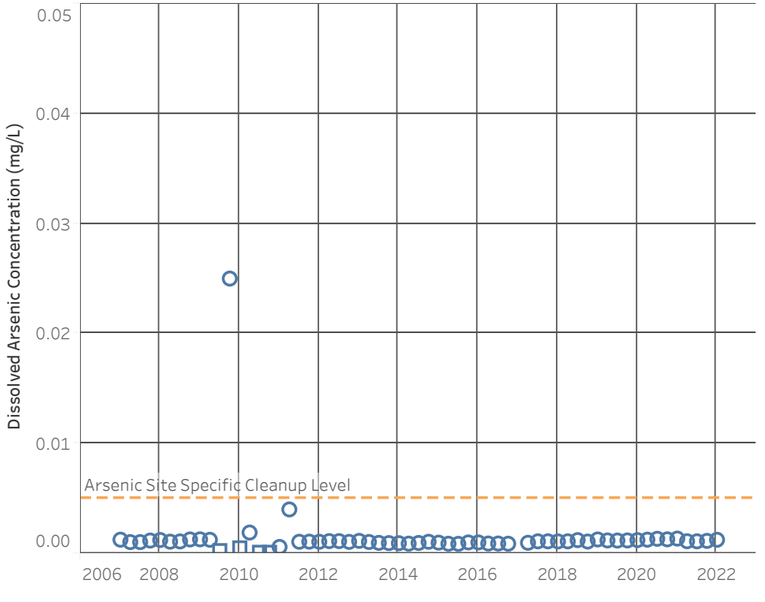
MW-5 (Background Well)



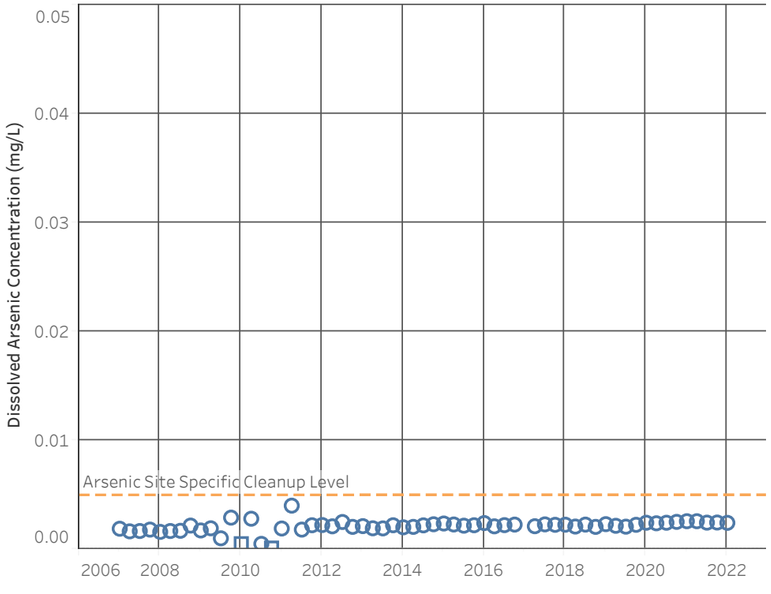
MW-6



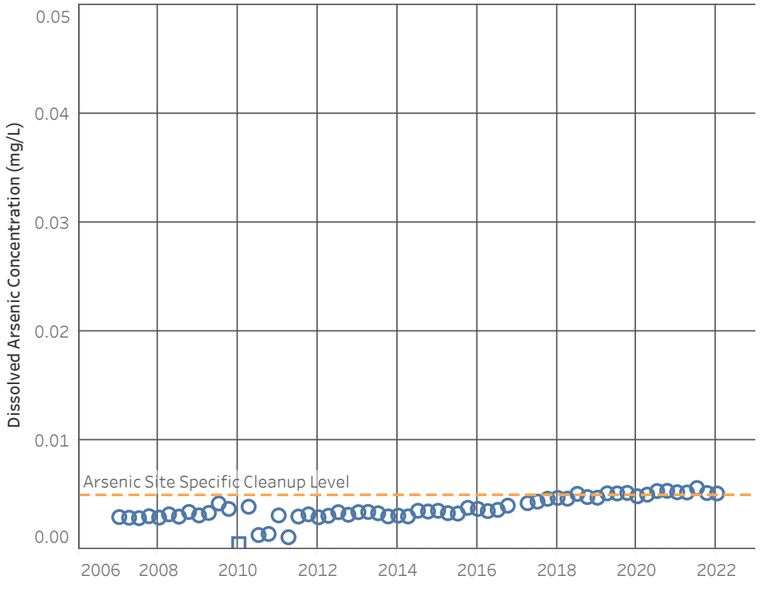
MW-7



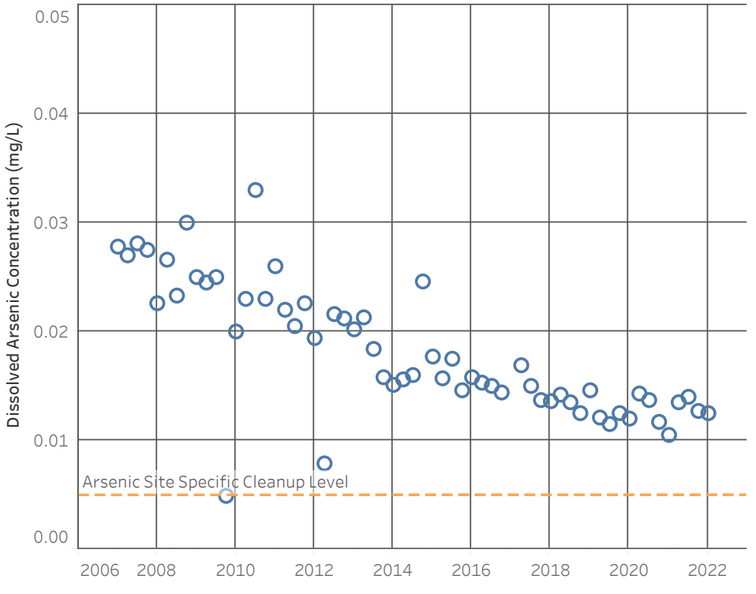
MW-12I



MW-13D



MW-14



Note: Non-detected values are shown at 1/2 the reporting limit.
Results from First Quarter 2017 were rejected. See text.

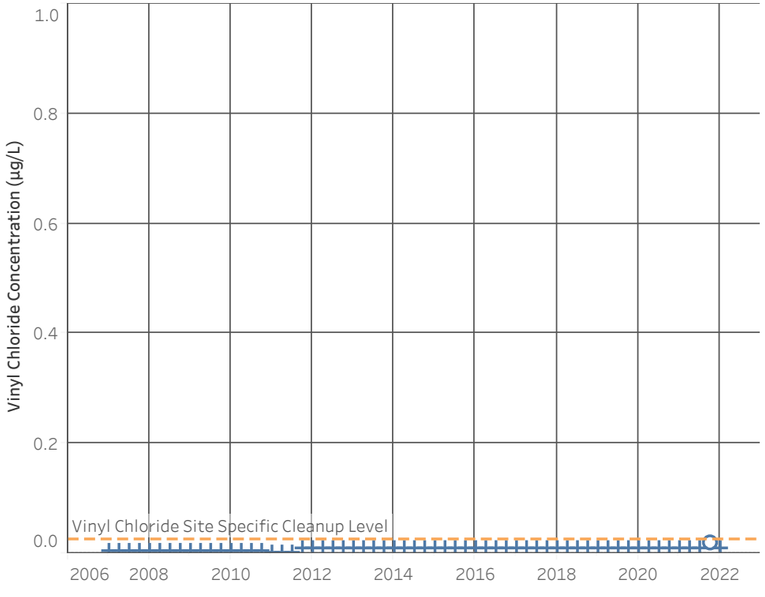
Result Flags
○ Detected □ U - Non-Detect

Aspect CONSULTING

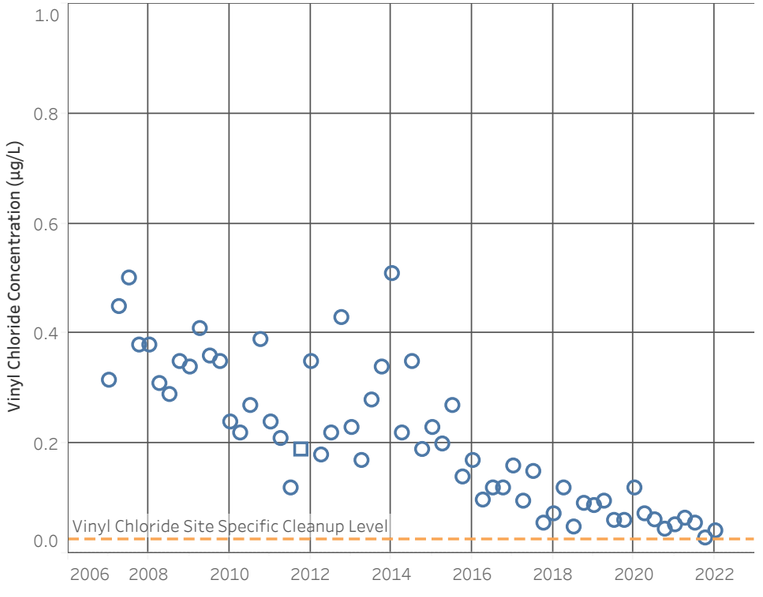
4/18/2022
Trend Plots (As)

Figure C-1 - 2022 First Quarter Dissolved Arsenic Sampling Results
2022 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, WA

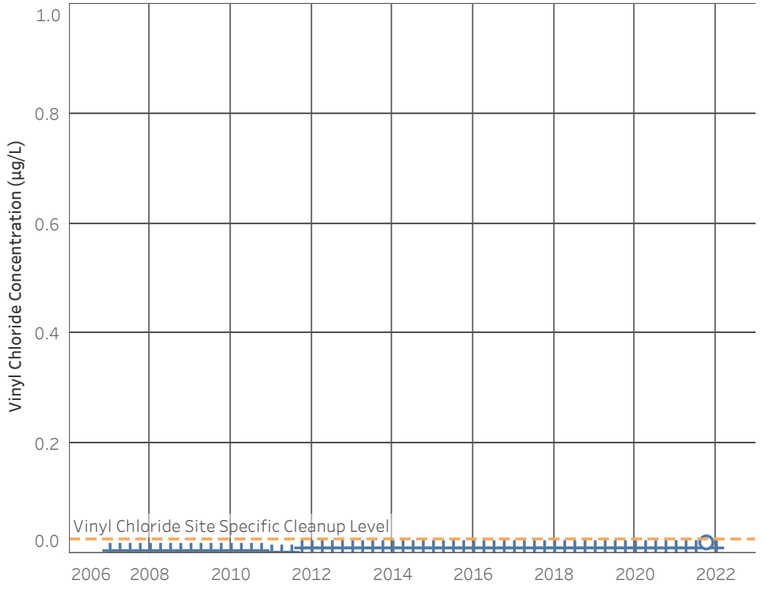
MW-5 (Background Well)



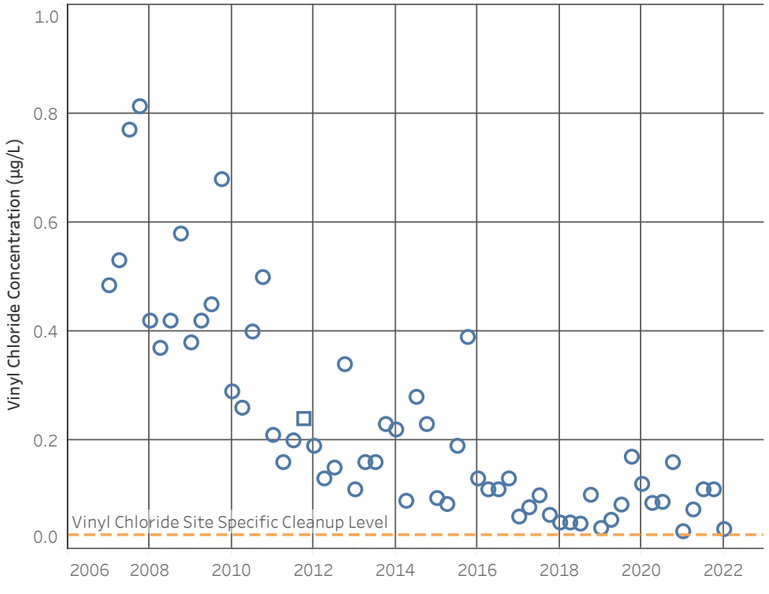
MW-6



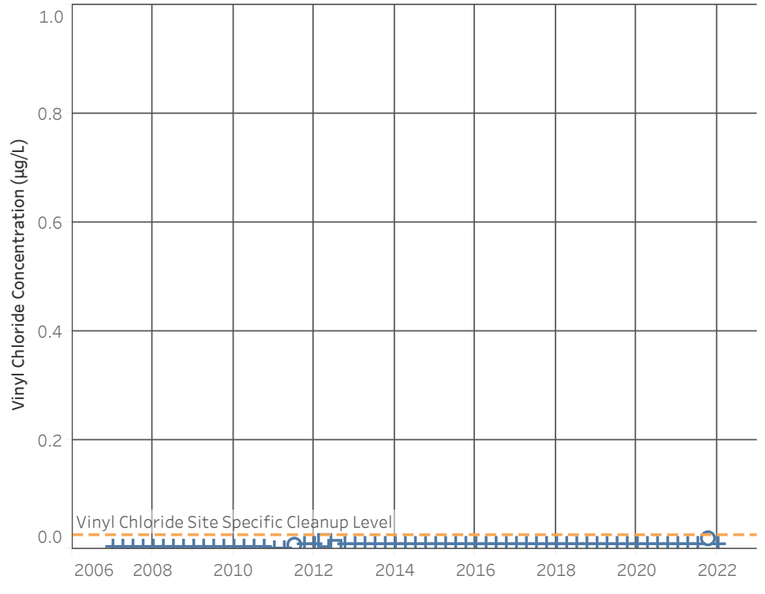
MW-7



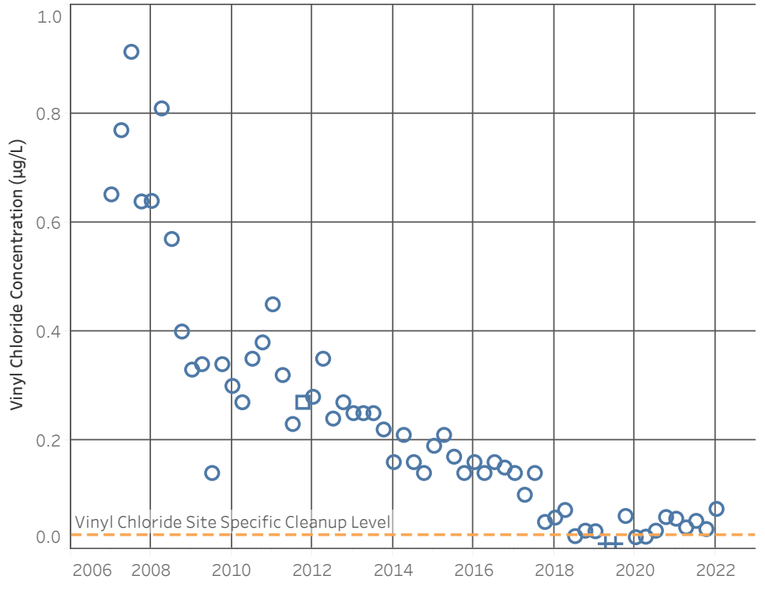
MW-12I



MW-13D



MW-14



Result Flags
○ Detected □ J - Estimate + U - Non-Detect

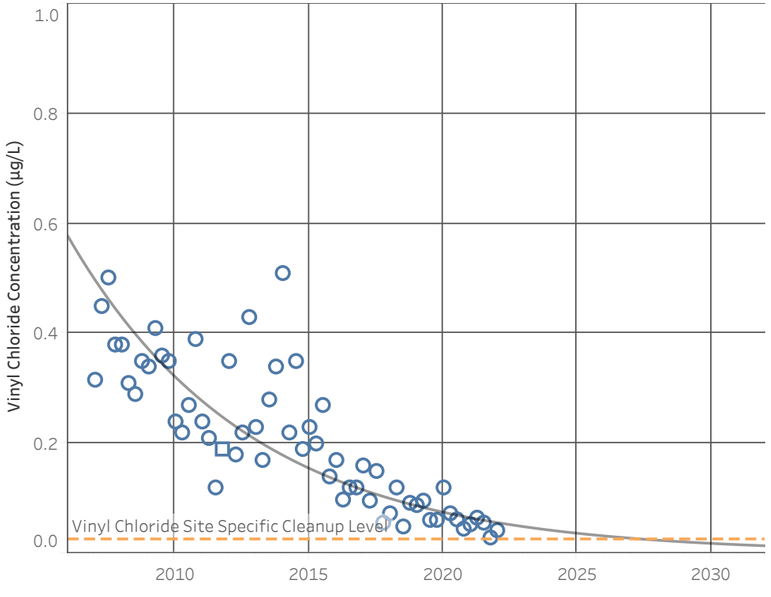
Note: Non-detected values are shown at 1/2 the reporting limit.

Aspect CONSULTING

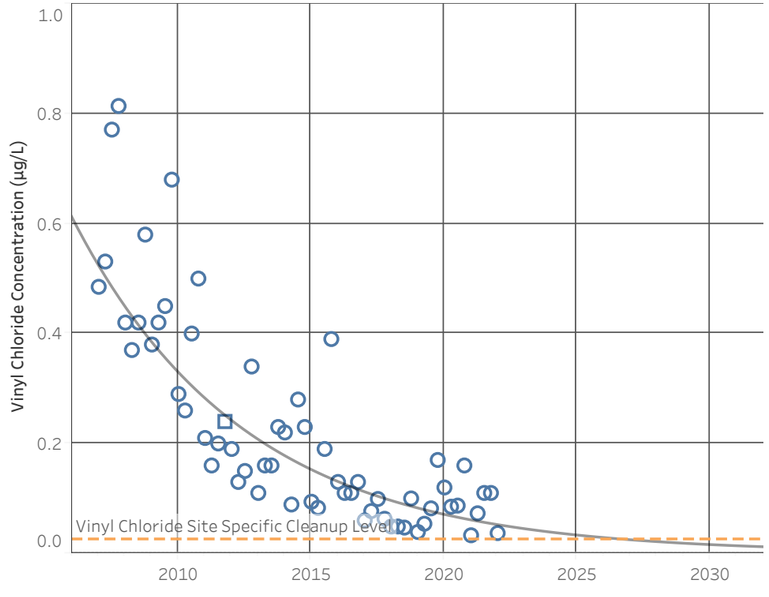
4/18/2022
Trend Plots (VC) 2021

Figure C-2 - 2022 First Quarter Vinyl Chloride Sampling Results
2022 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, WA

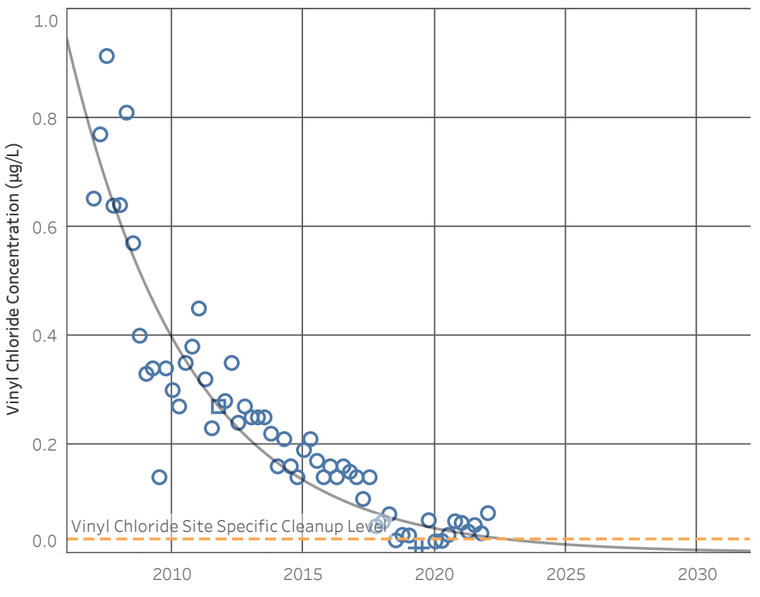
MW-6 Vinyl Chloride Trend



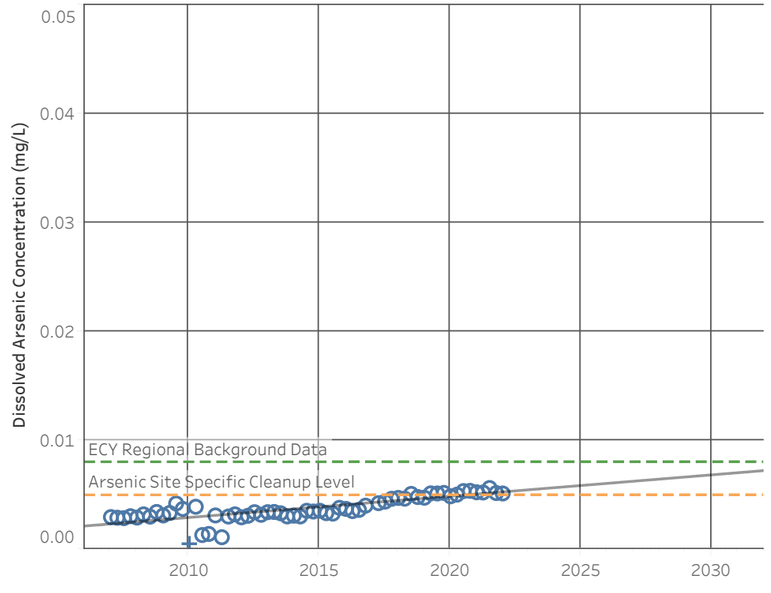
MW-12I Vinyl Chloride Trend



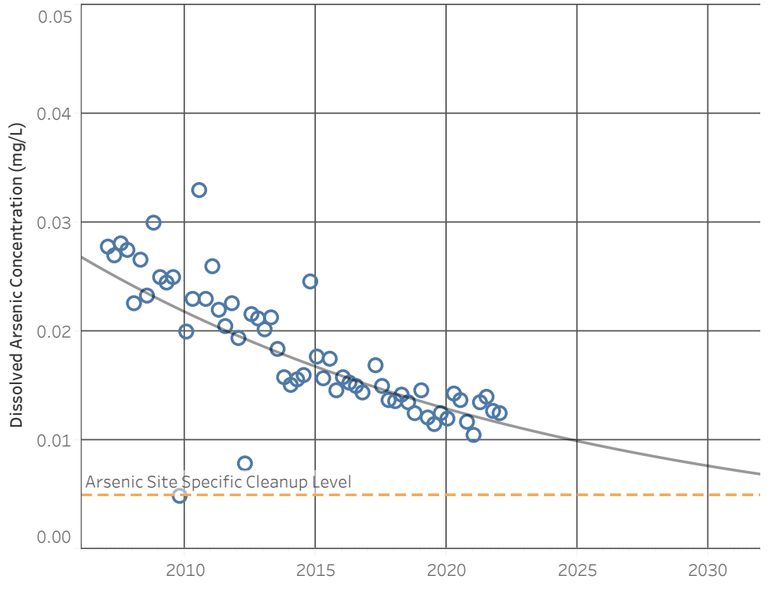
MW-14 Vinyl Chloride Trend



MW-13D Dissolved Arsenic Trend



MW-14 Dissolved Arsenic Trend



Note: Non-detected values are shown at 1/2 the reporting limit.
Attentuation curves based on exponential least squares fit to the data.

Result Flags
○ Detected □ J - Estimate + U - Non-Detect

Aspect CONSULTING

4/18/2022
Trend Plots (VC) 2021

Figure C-3 - 10 Year Attenuation Curves
2022 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, WA

ATTACHMENT D

Field Forms and Laboratory Reports

Aspect CONSULTING

Sample number MW-5-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-5 Page: 1 of 1

Project Name: Hansville Landfill
Project Number: 160423
Date: 1/19/2021
Starting Water Level (ft TOC): 100.75
Sampled by: DCB or CB
Casing Stickup (ft): —
Measuring Point of Well: NTOC
Total Depth (ft TOC): —
Screened Interval (ft. TOC) —
Casing Diameter (inches): 2"
Filter Pack Interval (ft. TOC) —

Casing Volume — (ft Water) x — (Lpfv)(gpf) = — (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf
Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
0930		0.2	100.75	—	—	—	—	—	—	start
0935			100.75	8.5	98.4	3.50	6.68	196.1	2.34	
0940			100.76	10.1	78.8	7.37	6.82	188.4	1.23	
0945			100.76	10.4	77.9	7.57	7.01	188.2	1.49	
0950			100.76	10.3	78.6	7.87	7.16	189.9	1.46	
0955			100.76	10.2	79.2	7.90	7.23	192.9	1.33	
0958			100.76	10.3	79.2	7.88	7.24	193.8	1.19	
1001			100.76	10.3	79.3	7.89	7.24	194.1	1.37	
1005										

Total Gallons Purged: ~1 Total Casing Volumes Removed: —

Ending Water Level (ft TOC): 100. Ending Total Depth (ft TOC): —

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1005	40	VOA	6	N	HCl	clear		
	500	Amber	1	N	H2S04			
	500	poly	2	N	N			
	250	poly	1	Y	N			
	500	poly	2	Y	HNO3			

METHODS

Parameters measured with (instrument model & serial number): YSI (rental) Turbidmeter (purple) WLI (blue/white)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

Aspect CONSULTING

Sample number MW-6-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-6 Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: DCB or CB
Measuring Point of Well: TOC
Screened Interval (ft. TOC) –
Filter Pack Interval (ft. TOC) –

Project Number: 160423
Starting Water Level (ft TOC): 74.58
Casing Stickup (ft): –
Total Depth (ft TOC): –
Casing Diameter (inches): 2"

Casing Volume – (ft Water) x – (Lpfv)(gpf) = – (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1515	0	0.1	74.58	–	–	–	–	–	–	start
1520	0.5		74.61	12.2	143.7	0.97	7.25	133.6	2.18	clear, colorless, no odor, no sheen
1525	1.0		74.61	12.2	146.1	0.34	7.23	137.6	1.07	"
1530	1.5		74.61	12.3	145.9	0.32	7.23	138.2	1.10	"
1535	2.0		74.61	12.3	145.8	0.30	7.23	138.7	0.84	"
1540	2.5		74.61	12.3	144.8	0.30	7.23	139.0	1.01	"
1545	3.0		74.605	12.3	144.9	0.29	7.23	139.4	1.07	"

Total Gallons Purged: _____ Total Casing Volumes Removed: –

Ending Water Level (ft TOC): _____ Ending Total Depth (ft TOC): –

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1550	40	VOA	6	N	HCl	Clear		
	500	Amber	1	N	H2S04			
	500	poly	2	N	N			
	250	poly	1	Y	N			
	500	poly	2	Y	HNO3			

METHODS

Parameters measured with (instrument model & serial number): YSI (Rental) Turbidmeter (Purple) WLI (Blue/white)

Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water

Disposal of Discharged Water: dispersed onsite

Observations/Comments: _____

Aspect CONSULTING

Sample number MW-7-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-7 Page: 1 of 1

Project Name: Hansville Landfill
Project Number: 160423
Date: 1/19/2021
Starting Water Level (ft TOC): 85.72
Sampled by: DCB or CB
Casing Stickup (ft): —
Measuring Point of Well: MTOC
Total Depth (ft TOC): —
Screened Interval (ft. TOC) —
Casing Diameter (inches): 2"
Filter Pack Interval (ft. TOC) —

Casing Volume — (ft Water) x — (Lpfv)(gpf) = — (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
0750		0.2	85.72	—	—	—	—	—	—	start
0755		↓	85.72	8.6	111.3	5.56	6.83	141.3	3.10	
0800			85.72	9.4	100.3	2.09	6.69	132.9	3.10	clear, colorless, no odor, no sheen
0805			85.72	9.3	99.1	0.70	6.57	129.5	2.67	
0810			85.72	9.3	99.0	0.59	6.57	129.8	2.58	
0815			85.72	9.3	99.1	0.42	6.57	127.5	2.89	
0818			85.72	9.3	99.2	0.34	6.57	125.7	2.17	
0821			85.72	9.3	99.3	0.35	6.57	125.4	2.23	
0824			85.72	9.3	99.3	0.36	6.58	125.2	2.08	
0825		↓								sample

Total Gallons Purged: ~1
Total Casing Volumes Removed: —
Ending Water Level (ft TOC): 85.72
Ending Total Depth (ft TOC): —

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
0825	40	VOA	6	N	HCl	clear	2.12	
↓	500	Amber	1	N	H2S04	↓	↓	
	500	poly	2	N	N			x1 sub to ARI
	250	poly	1	Y	N			sub to ARI
↓	500	poly	2	Y	HNO3	↓	↓	x1 sub to ARI

METHODS

Parameters measured with (instrument model & serial number): YSI (~~blue~~ white) Turbidmeter (purple) WLI (blue/white) rental YSI
Purging Equipment: dedicated bladder pump / peristaltic
Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

Aspect CONSULTING

Sample number MW-12I-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-12I Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: DCB or CB
Measuring Point of Well: NTOC
Screened Interval (ft. TOC) –
Filter Pack Interval (ft. TOC) –

Project Number: 160423
Starting Water Level (ft TOC): 9.87'
Casing Stickup (ft):
Total Depth (ft TOC): –
Casing Diameter (inches): 2"

Casing Volume – (ft Water) x – (Lpfv)(gpf) = – (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1100	0	0.1	9.87	–	–	–	–	–	–	START
1105	0.5		9.90	9.5	63.8	1.44	7.32	202.1	1.94	clear, colorless, no odor, no sheen
1110	1.0		9.90	9.5	64.2	0.50	7.34	201.1	1.75	"
1115	1.5		9.90	9.5	64.6	0.43	7.34	200.4	1.74	"
1120	2.0		9.90	9.5	64.8	0.38	7.35	199.2	2.15	"
1125	2.5		9.90	9.6	64.9	0.37	7.36	199.5	2.09	"
1130	3.0		9.90	9.6	65.0	0.36	7.36	197.8	1.69	

Total Gallons Purged: 3.0 L
Total Casing Volumes Removed: –
Ending Water Level (ft TOC): 9.91
Ending Total Depth (ft TOC): –

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1135	40	VOA	6	N	HCl	clear	1.69	
	500	Amber	1	N	H2S04			
	500	poly	2	N	N			
	250	poly	1	Y	N			
	500	poly	2	Y	HNO3			

METHODS

Parameters measured with (instrument model & serial number): YSI (Rental) Turbidmeter (Purple) WLI (Blue/white ISO)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

Aspect CONSULTING

Sample number MW-13D-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-13D Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: DCB or CB
Measuring Point of Well: MTOC
Screened Interval (ft. TOC) —
Filter Pack Interval (ft. TOC) —

Project Number: 160423
Starting Water Level (ft TOC): 11.51
Casing Stickup (ft): —
Total Depth (ft TOC): —
Casing Diameter (inches): 2"

Casing Volume — (ft Water) x — (Lpfv)(gpf) = — (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1220	0	0.1	11.51	—	—	—	—	—	—	START
1225	0.5	↓	11.70	10.3	79.5	0.44	7.60	157.8	1.29	Clear colorless no odor, no sheen
1230	1.0		11.72	10.2	79.6	0.31	7.69	161.0	3.25	"
1235	1.5		11.68	10.2	79.7	0.30	7.69	161.6	2.41	"
1240	2.0		11.70	10.4	78.9	0.32	7.69	162.1	2.18	"
1245	2.5		11.70	10.2	79.7	0.30	7.69	159.7	1.90	"
1250	3.0		11.70	10.3	79.9	0.30	7.69	160.1	1.87	"

Total Gallons Purged: 3.0 L
Total Casing Volumes Removed: —
Ending Water Level (ft TOC): 11.70
Ending Total Depth (ft TOC): —

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1255	40	VOA	6	N	HCl	Clear	1.90	
↓	500	Amber	1	N	H2S04	↓	↓	
	500	poly	2	N	N			
	250	poly	1	Y	N			
↓	500	poly	2	Y	HNO3	↓	↓	

METHODS

Parameters measured with (instrument model & serial number): YSI (Rental) Turbidmeter (Pump) WLI (Blue/white)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

Aspect CONSULTING

Sample number MW-14-011922 / MW-200D-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-14 Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: DCB or CB
Measuring Point of Well: TOC
Screened Interval (ft. TOC) –
Filter Pack Interval (ft. TOC) –

Project Number: 160423
Starting Water Level (ft TOC): 81.41
Casing Stickup (ft): –
Total Depth (ft TOC): –
Casing Diameter (inches): 2"

Casing Volume – (ft Water) x – (Lpfv)(gpf) = – (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1336	0	0.1	81.41	–	–	–	–	–	–	START
1343	0.5		81.48	10.9	88.9	1.52	7.20	145.3	1.18	Clear, colorless, no odor, no sheen
1348	1.0		81.50	10.8	92.1	0.45	7.21	145.0	1.06	"
1353	1.5		81.50	10.8	91.4	0.39	7.21	147.2	1.27	"
1358	2.0		81.50	10.8	91.4	0.40	7.21	147.0	0.96	"
1403	2.5		81.50	10.8	91.5	0.39	7.21	146.6	1.26	"

Total Gallons Purged: ~~2.5~~ 2.5 L
Total Casing Volumes Removed: –
Ending Water Level (ft TOC): 81.55
Ending Total Depth (ft TOC): –

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1410	40	VOA	6	N	HCl	Clear	1.26	Duplicate MW-200D-011922
	500	Amber	1	N	H2SO4			
	500	poly	2	N	N			
	250	poly	1	Y	N			
	500	poly	2	Y	HNO3			

METHODS

Parameters measured with ~~(instrument model & serial number)~~: YSI (Rental) Turbidmeter (Purple) WLI (Blue / white)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

Aspect CONSULTING

Sample number SW-1-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-1 Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: DCB or CB
Measuring Point of Well: —
Screened Interval (ft. TOC) —
Filter Pack Interval (ft. TOC) —

Project Number: 160423
Starting Water Level (ft TOC): —
Casing Stickup (ft): —
Total Depth (ft TOC): —
Casing Diameter (inches): —

Casing Volume — (ft Water) x — (Lpfv)(gpf) = — (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1120	—	—	—	9.0	128.0	9.83	7.47	163.0	2.19	

Total Gallons Purged: —
Total Casing Volumes Removed: —
Ending Water Level (ft TOC): —
Ending Total Depth (ft TOC): —

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1120	40	VOA	6	N	HCl	clear	2.19	
↓	500	Amber	1	N	H2S04	↓	↓	
	500	poly	2	N	N			
	250	poly	1	Y	N			
↓	500	poly	2	Y	HNO3	↓	↓	

METHODS

Parameters measured with (instrument model & serial number): YSI (black) Turbidmeter (rental) WLI (orange)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

Aspect CONSULTING

Sample number SW-4-011921

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-4 Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: DCB or CB
Measuring Point of Well: —
Screened Interval (ft. TOC) —
Filter Pack Interval (ft. TOC) —

Project Number: 160423
Starting Water Level (ft TOC): —
Casing Stickup (ft): —
Total Depth (ft TOC): —
Casing Diameter (inches): —

Casing Volume — (ft Water) x — (Lpfv)(gpf) = — (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1215	—	—	—	8.2	206.8	10.52	7.78	167.8	3.53	

Total Gallons Purged: —
Total Casing Volumes Removed: —
Ending Water Level (ft TOC): —
Ending Total Depth (ft TOC): —

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1215	40	VOA	6	N	HCl	clear	3.53	
↓	500	Amber	1	N	H2S04	↓	↓	
	500	poly	2	N	N			
	250	poly	1	Y	N			
↓	500	poly	2	Y	HNO3	↓	↓	

METHODS

Parameters measured with (instrument model & serial number): YSI (black) Turbidmeter (rental) WLI (—)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments: —

Aspect CONSULTING

Sample number SW-6-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-6 Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: OCB or CB
Measuring Point of Well: —
Screened Interval (ft. TOC) —
Filter Pack Interval (ft. TOC) —

Project Number: 160423
Starting Water Level (ft TOC): —
Casing Stickup (ft): —
Total Depth (ft TOC): —
Casing Diameter (inches): —

Casing Volume — (ft Water) x — (Lpfv)(gpf) = — (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1245	—	—	—	7.6	74.2	9.96	7.03	176.4	10.8	

Total Gallons Purged: —
Total Casing Volumes Removed: —
Ending Water Level (ft TOC): —
Ending Total Depth (ft TOC): —

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1245	40	VOA	6	N	HCl	yellow	10.8	
↓	500	Amber	1	N	H2S04	↓	↓	
	500	poly	2	N	N			
	250	poly	1	Y	N			
↓	500	poly	2	Y	HNO3	↓	↓	

METHODS

Parameters measured with (instrument model & serial number): YSI (black) Turbidmeter (rental) WLI (—)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

Aspect CONSULTING

Sample number SW-7-011922

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-7 Page: 1 of 1

Project Name: Hansville Landfill
Date: 1/19/2021
Sampled by: DCB or CB
Measuring Point of Well: —
Screened Interval (ft. TOC) —
Filter Pack Interval (ft. TOC) —

Project Number: 160423
Starting Water Level (ft TOC): —
Casing Stickup (ft): —
Total Depth (ft TOC): —
Casing Diameter (inches): —

Casing Volume — (ft Water) x — (Lpfv)(gpf) = — (L)(gal)
Casing volumes: 3/4"= 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
3/4"= 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): midscreen

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1345	—	—	—	7.8	82.0	11.34	7.37	-251.7	4.25	

Total Gallons Purged: —
Total Casing Volumes Removed: —
Ending Water Level (ft TOC): —
Ending Total Depth (ft TOC): —

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1345	40	VOA	6	N	HCl	clear	4.25	
↓	500	Amber	1	N	H2S04	↓	↓	
↓	500	poly	2	N	N	↓	↓	
↓	250	poly	1	Y	N	↓	↓	
↓	500	poly	2	Y	HNO3	↓	↓	

METHODS

Parameters measured with (instrument model & serial number): YSI (black) Turbidmeter (rental) WLI (—)
Purging Equipment: dedicated bladder pump / peristaltic Decon Equipment: alconox and water
Disposal of Discharged Water: dispersed onsite
Observations/Comments:

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-158000-1
Client Project/Site: Hansville Landfill
Sampling Event: 1Q Sampling

For:
Aspect Consulting
350 Madison Ave N
Bainbridge Island, Washington 98110

Attn: Ms. Meilani Lanier-Kamaha'o

Betsy Sara

Authorized for release by:
2/16/2022 7:55:19 AM

Betsy Sara, Project Manager II
(303)736-0189
Betsy.Sara@Eurofinset.com

LINKS

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

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

Table of Contents

Definitions/Glossary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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: 280-158000-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Aspect Consulting

Project: Hansville Landfill

Report Number: 280-158000-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. 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) less than Eurofins TestAmerica's standard reporting limit. 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.

Sample Receiving

The samples were received on 01/22/2022; the samples arrived in good condition and on ice. The temperatures of the coolers at receipt were 0.5°C and 1.1°C.

Holding Times

All holding times were within established control limits.

Method Blanks

All Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

The Method 8260B LCS recoveries for 1,4-Dioxane, Isobutanol, Tetrahydrofuran, Vinyl acetate were above control limits. Because the data are considered to be biased high and all associated samples were non-detect above the reporting limits for 1,4-Dioxane, Isobutanol, Tetrahydrofuran, Vinyl acetate, corrective action was deemed unnecessary.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for cis-1,2-Dichloroethene Method 8260C. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260C SIM, however, an LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

All other MS and MSD samples were within established control limits.

Organics

The analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the

Job ID: 280-158000-1 (Continued)

Laboratory: Eurofins Denver (Continued)

reporting limits for the analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether are not reliable or defensible.

General Comments

The analyses for Method 8260C and Method 8260C SIM were performed by Eurofins Buffalo.
Their address and phone number are:
Eurofins Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
716-691-2600

The analysis for Nitrate, Nitrite, Ortho-phos Method 300.0, and Dissolved Arsenic Method 200.8 were performed by ARI. Their address and phone number are:
Analytical Resources, Inc.
4611 S.134th Place
Tukwila, WA 98168-3240
206-695-6200

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Client Sample ID: MW5-011922 — Lab Sample ID: 280-158000-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.6		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	73		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	73		10		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW7-011922 — Lab Sample ID: 280-158000-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.4		1.0		ug/L	1		6020	Dissolved
Total Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.5		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW12I-011922 — Lab Sample ID: 280-158000-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.037		0.020		ug/L	1		8260C SIM	Total/NA
Manganese	30		1.0		ug/L	1		6020	Dissolved
Chloride	3.8		3.0		mg/L	1		300.0	Total/NA
Sulfate	6.0		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	67		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	67		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	2.0		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW13D-011922 — Lab Sample ID: 280-158000-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	6.3		1.0		ug/L	1		6020	Dissolved
Chloride	5.1		3.0		mg/L	1		300.0	Total/NA
Sulfate	15		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	74		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	74		10		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW14-011922 — Lab Sample ID: 280-158000-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.074		0.020		ug/L	1		8260C SIM	Total/NA
1,2-Dichloroethene, Total	2.1		2.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Manganese	1800		1.0		ug/L	1		6020	Dissolved
Chloride	3.2		3.0		mg/L	1		300.0	Total/NA
Sulfate	7.6		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	100		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	100		10		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW6-011922 — Lab Sample ID: 280-158000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.042		0.020		ug/L	1		8260C SIM	Total/NA
Manganese	330		1.0		ug/L	1		6020	Dissolved
Chloride	5.8		3.0		mg/L	1		300.0	Total/NA
Sulfate	21		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Client Sample ID: MW20DD-011922 — Lab Sample ID: 280-158000-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.079		0.020		ug/L	1		8260C SIM	Total/NA
1,2-Dichloroethene, Total	2.1		2.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Manganese	1800		1.0		ug/L	1		6020	Dissolved
Chloride	3.2		3.0		mg/L	1		300.0	Total/NA
Sulfate	7.5		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	100		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	100		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.1		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW1-011922 — Lab Sample ID: 280-158000-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.5		1.0		ug/L	1		6020	Dissolved
Chloride	4.5		3.0		mg/L	1		300.0	Total/NA
Sulfate	8.5		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	69		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	69		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	2.5		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW4-011922 — Lab Sample ID: 280-158000-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	38		1.0		ug/L	1		6020	Dissolved
Chloride	10		3.0		mg/L	1		300.0	Total/NA
Sulfate	17		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	11		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW6-011922 — Lab Sample ID: 280-158000-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	32		1.0		ug/L	1		6020	Dissolved
Chloride	3.8		3.0		mg/L	1		300.0	Total/NA
Sulfate	5.2		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	38		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	38		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	22		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW7-011922 — Lab Sample ID: 280-158000-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.6		1.0		ug/L	1		6020	Dissolved
Chloride	3.8		3.0		mg/L	1		300.0	Total/NA
Sulfate	5.8		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	40		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	40		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	12		1.0		mg/L	1		SM 5310B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Client Sample ID: TB1

Lab Sample ID: 280-158000-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	8.9		5.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
6020	Metals (ICP/MS)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	TAL DEN
Subcontract	Dissolved As (ARI) - direct sub to ARI from field	None	SC0056
Subcontract	Nitrate/Nitrite/o-phos(field filtered) (ARI) - direct sub to ARI from field	None	SC0056
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL DEN
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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:

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200
TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-158000-1	MW5-011922	Water	01/19/22 10:05	01/22/22 10:40
280-158000-2	MW7-011922	Water	01/19/22 08:25	01/22/22 10:40
280-158000-3	MW12I-011922	Water	01/19/22 11:35	01/22/22 10:40
280-158000-4	MW13D-011922	Water	01/19/22 12:55	01/22/22 10:40
280-158000-5	MW14-011922	Water	01/19/22 14:10	01/22/22 10:40
280-158000-6	MW6-011922	Water	01/19/22 15:50	01/22/22 10:40
280-158000-7	MW20DD-011922	Water	01/19/22 00:00	01/22/22 10:40
280-158000-8	SW1-011922	Water	01/19/22 11:20	01/22/22 10:40
280-158000-9	SW4-011922	Water	01/19/22 12:15	01/22/22 10:40
280-158000-10	SW6-011922	Water	01/19/22 12:45	01/22/22 10:40
280-158000-11	SW7-011922	Water	01/19/22 13:45	01/22/22 10:40
280-158000-12	TB1	Water	01/19/22 00:00	01/22/22 10:40

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

Client Sample ID: MW5-011922
Date Collected: 01/19/22 10:05
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/27/22 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*50 - 150*		*01/27/22 21:25*	*1*
TBA-d9 (Surr)	*103*		*50 - 150*		*01/27/22 21:25*	*1*

Client Sample ID: MW7-011922
Date Collected: 01/19/22 08:25
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/27/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/27/22 21:53*	*1*
TBA-d9 (Surr)	*102*		*50 - 150*		*01/27/22 21:53*	*1*

Client Sample ID: MW12I-011922
Date Collected: 01/19/22 11:35
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.037**		0.020		ug/L			01/27/22 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/27/22 22:22*	*1*
TBA-d9 (Surr)	*108*		*50 - 150*		*01/27/22 22:22*	*1*

Client Sample ID: MW13D-011922
Date Collected: 01/19/22 12:55
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/27/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/27/22 22:50*	*1*
TBA-d9 (Surr)	*103*		*50 - 150*		*01/27/22 22:50*	*1*

Client Sample ID: MW14-011922
Date Collected: 01/19/22 14:10
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.074**		0.020		ug/L			01/27/22 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/27/22 23:18*	*1*
TBA-d9 (Surr)	*96*		*50 - 150*		*01/27/22 23:18*	*1*

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.042**		0.020		ug/L			01/27/22 23:45	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/27/22 23:45*	*1*
TBA-d9 (Surr)	*96*		*50 - 150*		*01/27/22 23:45*	*1*

Client Sample ID: MW20DD-011922
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.079**		0.020		ug/L			01/28/22 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/28/22 00:13*	*1*
TBA-d9 (Surr)	*98*		*50 - 150*		*01/28/22 00:13*	*1*

Client Sample ID: SW1-011922
Date Collected: 01/19/22 11:20
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/22 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/28/22 00:42*	*1*
TBA-d9 (Surr)	*101*		*50 - 150*		*01/28/22 00:42*	*1*

Client Sample ID: SW4-011922
Date Collected: 01/19/22 12:15
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/22 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*114*		*50 - 150*		*01/28/22 01:10*	*1*
TBA-d9 (Surr)	*96*		*50 - 150*		*01/28/22 01:10*	*1*

Client Sample ID: SW6-011922
Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/22 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*01/28/22 01:38*	*1*
TBA-d9 (Surr)	*101*		*50 - 150*		*01/28/22 01:38*	*1*

Client Sample ID: SW7-011922
Date Collected: 01/19/22 13:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/22 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*115*		*50 - 150*		*01/28/22 02:06*	*1*
TBA-d9 (Surr)	*100*		*50 - 150*		*01/28/22 02:06*	*1*

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

Client Sample ID: TB1
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/22 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*50 - 150*		*01/28/22 02:34*	*1*
TBA-d9 (Surr)	*96*		*50 - 150*		*01/28/22 02:34*	*1*

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

Client Sample ID: MW5-011922
Date Collected: 01/19/22 10:05
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 19:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 19:40	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 19:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 19:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 19:40	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 19:40	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 19:40	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 19:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 19:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 19:40	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 19:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 19:40	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 19:40	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 19:40	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 19:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 19:40	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 19:40	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 19:40	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 19:40	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 19:40	1
2-Hexanone	ND		5.0		ug/L			01/27/22 19:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 19:40	1
Acetone	ND		10		ug/L			01/27/22 19:40	1
Acetonitrile	ND		15		ug/L			01/27/22 19:40	1
Acrolein	ND		20		ug/L			01/27/22 19:40	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 19:40	1
Benzene	ND		1.0		ug/L			01/27/22 19:40	1
Bromobenzene	ND		1.0		ug/L			01/27/22 19:40	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 19:40	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 19:40	1
Bromoform	ND		1.0		ug/L			01/27/22 19:40	1

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

Client Sample ID: MW5-011922
Date Collected: 01/19/22 10:05
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			01/27/22 19:40	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 19:40	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 19:40	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 19:40	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 19:40	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 19:40	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 19:40	1
Chloroethane	ND		1.0		ug/L			01/27/22 19:40	1
Chloroform	ND		1.0		ug/L			01/27/22 19:40	1
Chloromethane	ND		1.0		ug/L			01/27/22 19:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 19:40	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 19:40	1
Cyclohexane	ND		1.0		ug/L			01/27/22 19:40	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 19:40	1
Dibromomethane	ND		1.0		ug/L			01/27/22 19:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 19:40	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 19:40	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 19:40	1
Ethyl ether	ND		1.0		ug/L			01/27/22 19:40	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 19:40	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 19:40	1
Hexane	ND		10		ug/L			01/27/22 19:40	1
Iodomethane	ND		1.0		ug/L			01/27/22 19:40	1
Isobutanol	ND	*+	25		ug/L			01/27/22 19:40	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 19:40	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 19:40	1
Methyl acetate	ND		2.5		ug/L			01/27/22 19:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 19:40	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 19:40	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 19:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 19:40	1
Naphthalene	ND		1.0		ug/L			01/27/22 19:40	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 19:40	1
o-Xylene	ND		1.0		ug/L			01/27/22 19:40	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 19:40	1
p-Cymene	ND		1.0		ug/L			01/27/22 19:40	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
Styrene	ND		1.0		ug/L			01/27/22 19:40	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 19:40	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 19:40	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 19:40	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 19:40	1
Toluene	ND		1.0		ug/L			01/27/22 19:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 19:40	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 19:40	1

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

Client Sample ID: MW5-011922
Date Collected: 01/19/22 10:05
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 19:40	1
Trichloroethene	ND		1.0		ug/L			01/27/22 19:40	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 19:40	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 19:40	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 19:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 19:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*01/27/22 19:40*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*01/27/22 19:40*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*01/27/22 19:40*	*1*

Client Sample ID: MW7-011922
Date Collected: 01/19/22 08:25
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 20:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 20:03	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 20:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 20:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 20:03	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 20:03	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 20:03	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 20:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 20:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 20:03	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 20:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 20:03	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 20:03	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 20:03	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 20:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:03	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 20:03	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 20:03	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 20:03	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 20:03	1
2-Hexanone	ND		5.0		ug/L			01/27/22 20:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 20:03	1
Acetone	ND		10		ug/L			01/27/22 20:03	1
Acetonitrile	ND		15		ug/L			01/27/22 20:03	1
Acrolein	ND		20		ug/L			01/27/22 20:03	1

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

Client Sample ID: MW7-011922
Date Collected: 01/19/22 08:25
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0		ug/L			01/27/22 20:03	1
Benzene	ND		1.0		ug/L			01/27/22 20:03	1
Bromobenzene	ND		1.0		ug/L			01/27/22 20:03	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 20:03	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 20:03	1
Bromoform	ND		1.0		ug/L			01/27/22 20:03	1
Bromomethane	ND		1.0		ug/L			01/27/22 20:03	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 20:03	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 20:03	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 20:03	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 20:03	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 20:03	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 20:03	1
Chloroethane	ND		1.0		ug/L			01/27/22 20:03	1
Chloroform	ND		1.0		ug/L			01/27/22 20:03	1
Chloromethane	ND		1.0		ug/L			01/27/22 20:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 20:03	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 20:03	1
Cyclohexane	ND		1.0		ug/L			01/27/22 20:03	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 20:03	1
Dibromomethane	ND		1.0		ug/L			01/27/22 20:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 20:03	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 20:03	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 20:03	1
Ethyl ether	ND		1.0		ug/L			01/27/22 20:03	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 20:03	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 20:03	1
Hexane	ND		10		ug/L			01/27/22 20:03	1
Iodomethane	ND		1.0		ug/L			01/27/22 20:03	1
Isobutanol	ND	*+	25		ug/L			01/27/22 20:03	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 20:03	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 20:03	1
Methyl acetate	ND		2.5		ug/L			01/27/22 20:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 20:03	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 20:03	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 20:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 20:03	1
Naphthalene	ND		1.0		ug/L			01/27/22 20:03	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 20:03	1
o-Xylene	ND		1.0		ug/L			01/27/22 20:03	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 20:03	1
p-Cymene	ND		1.0		ug/L			01/27/22 20:03	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
Styrene	ND		1.0		ug/L			01/27/22 20:03	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 20:03	1

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

Client Sample ID: MW7-011922
Date Collected: 01/19/22 08:25
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 20:03	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 20:03	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 20:03	1
Toluene	ND		1.0		ug/L			01/27/22 20:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 20:03	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 20:03	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 20:03	1
Trichloroethene	ND		1.0		ug/L			01/27/22 20:03	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 20:03	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 20:03	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 20:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 20:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*01/27/22 20:03*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*01/27/22 20:03*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*01/27/22 20:03*	*1*

Client Sample ID: MW12I-011922
Date Collected: 01/19/22 11:35
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 20:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 20:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 20:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 20:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 20:26	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 20:26	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 20:26	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 20:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 20:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 20:26	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 20:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 20:26	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 20:26	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 20:26	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 20:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:26	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 20:26	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 20:26	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 20:26	1

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

Client Sample ID: MW12I-011922
Date Collected: 01/19/22 11:35
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 20:26	1
2-Hexanone	ND		5.0		ug/L			01/27/22 20:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 20:26	1
Acetone	ND		10		ug/L			01/27/22 20:26	1
Acetonitrile	ND		15		ug/L			01/27/22 20:26	1
Acrolein	ND		20		ug/L			01/27/22 20:26	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 20:26	1
Benzene	ND		1.0		ug/L			01/27/22 20:26	1
Bromobenzene	ND		1.0		ug/L			01/27/22 20:26	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 20:26	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 20:26	1
Bromoform	ND		1.0		ug/L			01/27/22 20:26	1
Bromomethane	ND		1.0		ug/L			01/27/22 20:26	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 20:26	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 20:26	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 20:26	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 20:26	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 20:26	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 20:26	1
Chloroethane	ND		1.0		ug/L			01/27/22 20:26	1
Chloroform	ND		1.0		ug/L			01/27/22 20:26	1
Chloromethane	ND		1.0		ug/L			01/27/22 20:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 20:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 20:26	1
Cyclohexane	ND		1.0		ug/L			01/27/22 20:26	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 20:26	1
Dibromomethane	ND		1.0		ug/L			01/27/22 20:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 20:26	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 20:26	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 20:26	1
Ethyl ether	ND		1.0		ug/L			01/27/22 20:26	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 20:26	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 20:26	1
Hexane	ND		10		ug/L			01/27/22 20:26	1
Iodomethane	ND		1.0		ug/L			01/27/22 20:26	1
Isobutanol	ND	*+	25		ug/L			01/27/22 20:26	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 20:26	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 20:26	1
Methyl acetate	ND		2.5		ug/L			01/27/22 20:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 20:26	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 20:26	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 20:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 20:26	1
Naphthalene	ND		1.0		ug/L			01/27/22 20:26	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 20:26	1

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

Client Sample ID: MW12I-011922
Date Collected: 01/19/22 11:35
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			01/27/22 20:26	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 20:26	1
p-Cymene	ND		1.0		ug/L			01/27/22 20:26	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
Styrene	ND		1.0		ug/L			01/27/22 20:26	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 20:26	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 20:26	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 20:26	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 20:26	1
Toluene	ND		1.0		ug/L			01/27/22 20:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 20:26	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 20:26	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 20:26	1
Trichloroethene	ND		1.0		ug/L			01/27/22 20:26	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 20:26	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 20:26	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 20:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 20:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*01/27/22 20:26*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*01/27/22 20:26*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*01/27/22 20:26*	*1*

Client Sample ID: MW13D-011922
Date Collected: 01/19/22 12:55
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 20:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 20:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 20:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 20:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 20:50	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 20:50	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 20:50	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 20:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 20:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 20:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 20:50	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 20:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:50	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 20:50	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 20:50	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 20:50	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 20:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 20:50	1

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

Client Sample ID: MW13D-011922
Date Collected: 01/19/22 12:55
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:50	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 20:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 20:50	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 20:50	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 20:50	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 20:50	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 20:50	1
2-Hexanone	ND		5.0		ug/L			01/27/22 20:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 20:50	1
Acetone	ND		10		ug/L			01/27/22 20:50	1
Acetonitrile	ND		15		ug/L			01/27/22 20:50	1
Acrolein	ND		20		ug/L			01/27/22 20:50	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 20:50	1
Benzene	ND		1.0		ug/L			01/27/22 20:50	1
Bromobenzene	ND		1.0		ug/L			01/27/22 20:50	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 20:50	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 20:50	1
Bromoform	ND		1.0		ug/L			01/27/22 20:50	1
Bromomethane	ND		1.0		ug/L			01/27/22 20:50	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 20:50	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 20:50	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 20:50	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 20:50	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 20:50	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 20:50	1
Chloroethane	ND		1.0		ug/L			01/27/22 20:50	1
Chloroform	ND		1.0		ug/L			01/27/22 20:50	1
Chloromethane	ND		1.0		ug/L			01/27/22 20:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 20:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 20:50	1
Cyclohexane	ND		1.0		ug/L			01/27/22 20:50	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 20:50	1
Dibromomethane	ND		1.0		ug/L			01/27/22 20:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 20:50	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 20:50	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 20:50	1
Ethyl ether	ND		1.0		ug/L			01/27/22 20:50	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 20:50	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 20:50	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 20:50	1
Hexane	ND		10		ug/L			01/27/22 20:50	1
Iodomethane	ND		1.0		ug/L			01/27/22 20:50	1
Isobutanol	ND	*+	25		ug/L			01/27/22 20:50	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 20:50	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 20:50	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 20:50	1
Methyl acetate	ND		2.5		ug/L			01/27/22 20:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 20:50	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 20:50	1

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

Client Sample ID: MW13D-011922
Date Collected: 01/19/22 12:55
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			01/27/22 20:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 20:50	1
Naphthalene	ND		1.0		ug/L			01/27/22 20:50	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 20:50	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 20:50	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 20:50	1
o-Xylene	ND		1.0		ug/L			01/27/22 20:50	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 20:50	1
p-Cymene	ND		1.0		ug/L			01/27/22 20:50	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 20:50	1
Styrene	ND		1.0		ug/L			01/27/22 20:50	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 20:50	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 20:50	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 20:50	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 20:50	1
Toluene	ND		1.0		ug/L			01/27/22 20:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 20:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 20:50	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 20:50	1
Trichloroethene	ND		1.0		ug/L			01/27/22 20:50	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 20:50	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 20:50	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 20:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 20:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*01/27/22 20:50*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*01/27/22 20:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*01/27/22 20:50*	*1*

Client Sample ID: MW14-011922
Date Collected: 01/19/22 14:10
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 21:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 21:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 21:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 21:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 21:13	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 21:13	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 21:13	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 21:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 21:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 21:13	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 21:13	1

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

Client Sample ID: MW14-011922
Date Collected: 01/19/22 14:10
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 21:13	1
1,2-Dichloroethene, Total	**2.1**		2.0		ug/L			01/27/22 21:13	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 21:13	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 21:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:13	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 21:13	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 21:13	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 21:13	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 21:13	1
2-Hexanone	ND		5.0		ug/L			01/27/22 21:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 21:13	1
Acetone	ND		10		ug/L			01/27/22 21:13	1
Acetonitrile	ND		15		ug/L			01/27/22 21:13	1
Acrolein	ND		20		ug/L			01/27/22 21:13	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 21:13	1
Benzene	ND		1.0		ug/L			01/27/22 21:13	1
Bromobenzene	ND		1.0		ug/L			01/27/22 21:13	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 21:13	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 21:13	1
Bromoform	ND		1.0		ug/L			01/27/22 21:13	1
Bromomethane	ND		1.0		ug/L			01/27/22 21:13	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 21:13	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 21:13	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 21:13	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 21:13	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 21:13	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 21:13	1
Chloroethane	ND		1.0		ug/L			01/27/22 21:13	1
Chloroform	ND		1.0		ug/L			01/27/22 21:13	1
Chloromethane	ND		1.0		ug/L			01/27/22 21:13	1
cis-1,2-Dichloroethene	**2.1**		1.0		ug/L			01/27/22 21:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 21:13	1
Cyclohexane	ND		1.0		ug/L			01/27/22 21:13	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 21:13	1
Dibromomethane	ND		1.0		ug/L			01/27/22 21:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 21:13	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 21:13	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 21:13	1
Ethyl ether	ND		1.0		ug/L			01/27/22 21:13	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 21:13	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 21:13	1
Hexane	ND		10		ug/L			01/27/22 21:13	1
Iodomethane	ND		1.0		ug/L			01/27/22 21:13	1
Isobutanol	ND	*+	25		ug/L			01/27/22 21:13	1

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

Client Sample ID: MW14-011922
Date Collected: 01/19/22 14:10
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		1.0		ug/L			01/27/22 21:13	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 21:13	1
Methyl acetate	ND		2.5		ug/L			01/27/22 21:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 21:13	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 21:13	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 21:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 21:13	1
Naphthalene	ND		1.0		ug/L			01/27/22 21:13	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 21:13	1
o-Xylene	ND		1.0		ug/L			01/27/22 21:13	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 21:13	1
p-Cymene	ND		1.0		ug/L			01/27/22 21:13	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
Styrene	ND		1.0		ug/L			01/27/22 21:13	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 21:13	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 21:13	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 21:13	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 21:13	1
Toluene	ND		1.0		ug/L			01/27/22 21:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 21:13	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 21:13	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 21:13	1
Trichloroethene	ND		1.0		ug/L			01/27/22 21:13	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 21:13	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 21:13	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 21:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 21:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*01/27/22 21:13*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*01/27/22 21:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/27/22 21:13*	*1*

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 21:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 21:36	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 21:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 21:36	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 21:36	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 21:36	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 21:36	1

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

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 21:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 21:36	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 21:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 21:36	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 21:36	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 21:36	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 21:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:36	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 21:36	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 21:36	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 21:36	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 21:36	1
2-Hexanone	ND		5.0		ug/L			01/27/22 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 21:36	1
Acetone	ND		10		ug/L			01/27/22 21:36	1
Acetonitrile	ND		15		ug/L			01/27/22 21:36	1
Acrolein	ND		20		ug/L			01/27/22 21:36	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 21:36	1
Benzene	ND		1.0		ug/L			01/27/22 21:36	1
Bromobenzene	ND		1.0		ug/L			01/27/22 21:36	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 21:36	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 21:36	1
Bromoform	ND		1.0		ug/L			01/27/22 21:36	1
Bromomethane	ND		1.0		ug/L			01/27/22 21:36	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 21:36	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 21:36	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 21:36	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 21:36	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 21:36	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 21:36	1
Chloroethane	ND		1.0		ug/L			01/27/22 21:36	1
Chloroform	ND		1.0		ug/L			01/27/22 21:36	1
Chloromethane	ND		1.0		ug/L			01/27/22 21:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 21:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 21:36	1
Cyclohexane	ND		1.0		ug/L			01/27/22 21:36	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 21:36	1
Dibromomethane	ND		1.0		ug/L			01/27/22 21:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 21:36	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 21:36	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 21:36	1
Ethyl ether	ND		1.0		ug/L			01/27/22 21:36	1

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

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 21:36	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 21:36	1
Hexane	ND		10		ug/L			01/27/22 21:36	1
Iodomethane	ND		1.0		ug/L			01/27/22 21:36	1
Isobutanol	ND	*+	25		ug/L			01/27/22 21:36	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 21:36	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 21:36	1
Methyl acetate	ND		2.5		ug/L			01/27/22 21:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 21:36	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 21:36	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 21:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 21:36	1
Naphthalene	ND		1.0		ug/L			01/27/22 21:36	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 21:36	1
o-Xylene	ND		1.0		ug/L			01/27/22 21:36	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 21:36	1
p-Cymene	ND		1.0		ug/L			01/27/22 21:36	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
Styrene	ND		1.0		ug/L			01/27/22 21:36	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 21:36	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 21:36	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 21:36	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 21:36	1
Toluene	ND		1.0		ug/L			01/27/22 21:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 21:36	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 21:36	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 21:36	1
Trichloroethene	ND		1.0		ug/L			01/27/22 21:36	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 21:36	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 21:36	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 21:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 21:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*01/27/22 21:36*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*01/27/22 21:36*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*01/27/22 21:36*	*1*

Client Sample ID: MW20DD-011922
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 21:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 21:58	1

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

Client Sample ID: MW20DD-011922
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 21:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 21:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 21:58	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 21:58	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 21:58	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 21:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 21:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 21:58	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 21:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 21:58	1
1,2-Dichloroethene, Total	**2.1**		2.0		ug/L			01/27/22 21:58	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 21:58	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 21:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 21:58	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 21:58	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 21:58	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 21:58	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 21:58	1
2-Hexanone	ND		5.0		ug/L			01/27/22 21:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 21:58	1
Acetone	ND		10		ug/L			01/27/22 21:58	1
Acetonitrile	ND		15		ug/L			01/27/22 21:58	1
Acrolein	ND		20		ug/L			01/27/22 21:58	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 21:58	1
Benzene	ND		1.0		ug/L			01/27/22 21:58	1
Bromobenzene	ND		1.0		ug/L			01/27/22 21:58	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 21:58	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 21:58	1
Bromoform	ND		1.0		ug/L			01/27/22 21:58	1
Bromomethane	ND		1.0		ug/L			01/27/22 21:58	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 21:58	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 21:58	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 21:58	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 21:58	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 21:58	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 21:58	1
Chloroethane	ND		1.0		ug/L			01/27/22 21:58	1
Chloroform	ND		1.0		ug/L			01/27/22 21:58	1
Chloromethane	ND		1.0		ug/L			01/27/22 21:58	1
cis-1,2-Dichloroethene	**2.1**		1.0		ug/L			01/27/22 21:58	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 21:58	1
Cyclohexane	ND		1.0		ug/L			01/27/22 21:58	1

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

Client Sample ID: MW20DD-011922
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0		ug/L			01/27/22 21:58	1
Dibromomethane	ND		1.0		ug/L			01/27/22 21:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 21:58	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 21:58	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 21:58	1
Ethyl ether	ND		1.0		ug/L			01/27/22 21:58	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 21:58	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 21:58	1
Hexane	ND		10		ug/L			01/27/22 21:58	1
Iodomethane	ND		1.0		ug/L			01/27/22 21:58	1
Isobutanol	ND	*+	25		ug/L			01/27/22 21:58	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 21:58	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 21:58	1
Methyl acetate	ND		2.5		ug/L			01/27/22 21:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 21:58	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 21:58	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 21:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 21:58	1
Naphthalene	ND		1.0		ug/L			01/27/22 21:58	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 21:58	1
o-Xylene	ND		1.0		ug/L			01/27/22 21:58	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 21:58	1
p-Cymene	ND		1.0		ug/L			01/27/22 21:58	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
Styrene	ND		1.0		ug/L			01/27/22 21:58	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 21:58	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 21:58	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 21:58	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 21:58	1
Toluene	ND		1.0		ug/L			01/27/22 21:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 21:58	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 21:58	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 21:58	1
Trichloroethene	ND		1.0		ug/L			01/27/22 21:58	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 21:58	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 21:58	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 21:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 21:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*01/27/22 21:58*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*01/27/22 21:58*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*01/27/22 21:58*	*1*

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

Client Sample ID: SW1-011922
Date Collected: 01/19/22 11:20
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 22:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 22:21	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 22:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 22:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 22:21	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 22:21	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 22:21	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 22:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 22:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 22:21	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 22:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 22:21	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 22:21	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 22:21	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 22:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 22:21	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 22:21	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 22:21	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 22:21	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 22:21	1
2-Hexanone	ND		5.0		ug/L			01/27/22 22:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 22:21	1
Acetone	ND		10		ug/L			01/27/22 22:21	1
Acetonitrile	ND		15		ug/L			01/27/22 22:21	1
Acrolein	ND		20		ug/L			01/27/22 22:21	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 22:21	1
Benzene	ND		1.0		ug/L			01/27/22 22:21	1
Bromobenzene	ND		1.0		ug/L			01/27/22 22:21	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 22:21	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 22:21	1
Bromoform	ND		1.0		ug/L			01/27/22 22:21	1
Bromomethane	ND		1.0		ug/L			01/27/22 22:21	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 22:21	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 22:21	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 22:21	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 22:21	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 22:21	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 22:21	1
Chloroethane	ND		1.0		ug/L			01/27/22 22:21	1
Chloroform	ND		1.0		ug/L			01/27/22 22:21	1
Chloromethane	ND		1.0		ug/L			01/27/22 22:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 22:21	1

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

Client Sample ID: SW1-011922
Date Collected: 01/19/22 11:20
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 22:21	1
Cyclohexane	ND		1.0		ug/L			01/27/22 22:21	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 22:21	1
Dibromomethane	ND		1.0		ug/L			01/27/22 22:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 22:21	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 22:21	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 22:21	1
Ethyl ether	ND		1.0		ug/L			01/27/22 22:21	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 22:21	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 22:21	1
Hexane	ND		10		ug/L			01/27/22 22:21	1
Iodomethane	ND		1.0		ug/L			01/27/22 22:21	1
Isobutanol	ND	*+	25		ug/L			01/27/22 22:21	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 22:21	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 22:21	1
Methyl acetate	ND		2.5		ug/L			01/27/22 22:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 22:21	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 22:21	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 22:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 22:21	1
Naphthalene	ND		1.0		ug/L			01/27/22 22:21	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 22:21	1
o-Xylene	ND		1.0		ug/L			01/27/22 22:21	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 22:21	1
p-Cymene	ND		1.0		ug/L			01/27/22 22:21	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
Styrene	ND		1.0		ug/L			01/27/22 22:21	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 22:21	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 22:21	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 22:21	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 22:21	1
Toluene	ND		1.0		ug/L			01/27/22 22:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 22:21	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 22:21	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 22:21	1
Trichloroethene	ND		1.0		ug/L			01/27/22 22:21	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 22:21	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 22:21	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 22:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 22:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*01/27/22 22:21*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*01/27/22 22:21*	*1*

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

Client Sample ID: SW1-011922
Date Collected: 01/19/22 11:20
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*01/27/22 22:21*	*1*

Client Sample ID: SW4-011922
Date Collected: 01/19/22 12:15
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 22:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 22:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 22:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 22:45	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 22:45	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 22:45	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 22:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 22:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 22:45	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 22:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 22:45	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 22:45	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 22:45	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 22:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 22:45	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 22:45	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 22:45	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 22:45	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 22:45	1
2-Hexanone	ND		5.0		ug/L			01/27/22 22:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 22:45	1
Acetone	ND		10		ug/L			01/27/22 22:45	1
Acetonitrile	ND		15		ug/L			01/27/22 22:45	1
Acrolein	ND		20		ug/L			01/27/22 22:45	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 22:45	1
Benzene	ND		1.0		ug/L			01/27/22 22:45	1
Bromobenzene	ND		1.0		ug/L			01/27/22 22:45	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 22:45	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 22:45	1
Bromoform	ND		1.0		ug/L			01/27/22 22:45	1
Bromomethane	ND		1.0		ug/L			01/27/22 22:45	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 22:45	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 22:45	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 22:45	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 22:45	1

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

Client Sample ID: SW4-011922
Date Collected: 01/19/22 12:15
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			01/27/22 22:45	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 22:45	1
Chloroethane	ND		1.0		ug/L			01/27/22 22:45	1
Chloroform	ND		1.0		ug/L			01/27/22 22:45	1
Chloromethane	ND		1.0		ug/L			01/27/22 22:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 22:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 22:45	1
Cyclohexane	ND		1.0		ug/L			01/27/22 22:45	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 22:45	1
Dibromomethane	ND		1.0		ug/L			01/27/22 22:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 22:45	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 22:45	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 22:45	1
Ethyl ether	ND		1.0		ug/L			01/27/22 22:45	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 22:45	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 22:45	1
Hexane	ND		10		ug/L			01/27/22 22:45	1
Iodomethane	ND		1.0		ug/L			01/27/22 22:45	1
Isobutanol	ND	*+	25		ug/L			01/27/22 22:45	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 22:45	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 22:45	1
Methyl acetate	ND		2.5		ug/L			01/27/22 22:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 22:45	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 22:45	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 22:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 22:45	1
Naphthalene	ND		1.0		ug/L			01/27/22 22:45	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 22:45	1
o-Xylene	ND		1.0		ug/L			01/27/22 22:45	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 22:45	1
p-Cymene	ND		1.0		ug/L			01/27/22 22:45	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
Styrene	ND		1.0		ug/L			01/27/22 22:45	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 22:45	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 22:45	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 22:45	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 22:45	1
Toluene	ND		1.0		ug/L			01/27/22 22:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 22:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 22:45	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 22:45	1
Trichloroethene	ND		1.0		ug/L			01/27/22 22:45	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 22:45	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 22:45	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 22:45	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/27/22 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		01/27/22 22:45	1
4-Bromofluorobenzene (Surr)	89		73 - 120		01/27/22 22:45	1
Toluene-d8 (Surr)	97		80 - 120		01/27/22 22:45	1

Client Sample ID: SW6-011922
Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 23:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 23:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 23:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 23:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 23:08	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 23:08	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 23:08	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 23:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 23:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 23:08	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 23:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 23:08	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 23:08	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 23:08	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 23:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 23:08	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 23:08	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 23:08	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 23:08	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 23:08	1
2-Hexanone	ND		5.0		ug/L			01/27/22 23:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 23:08	1
Acetone	ND		10		ug/L			01/27/22 23:08	1
Acetonitrile	ND		15		ug/L			01/27/22 23:08	1
Acrolein	ND		20		ug/L			01/27/22 23:08	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 23:08	1
Benzene	ND		1.0		ug/L			01/27/22 23:08	1
Bromobenzene	ND		1.0		ug/L			01/27/22 23:08	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 23:08	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 23:08	1
Bromoform	ND		1.0		ug/L			01/27/22 23:08	1
Bromomethane	ND		1.0		ug/L			01/27/22 23:08	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 23:08	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 23:08	1

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

Client Sample ID: SW6-011922
Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0		ug/L			01/27/22 23:08	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 23:08	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 23:08	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 23:08	1
Chloroethane	ND		1.0		ug/L			01/27/22 23:08	1
Chloroform	ND		1.0		ug/L			01/27/22 23:08	1
Chloromethane	ND		1.0		ug/L			01/27/22 23:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 23:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 23:08	1
Cyclohexane	ND		1.0		ug/L			01/27/22 23:08	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 23:08	1
Dibromomethane	ND		1.0		ug/L			01/27/22 23:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 23:08	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 23:08	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 23:08	1
Ethyl ether	ND		1.0		ug/L			01/27/22 23:08	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 23:08	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 23:08	1
Hexane	ND		10		ug/L			01/27/22 23:08	1
Iodomethane	ND		1.0		ug/L			01/27/22 23:08	1
Isobutanol	ND	*+	25		ug/L			01/27/22 23:08	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 23:08	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 23:08	1
Methyl acetate	ND		2.5		ug/L			01/27/22 23:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 23:08	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 23:08	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 23:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 23:08	1
Naphthalene	ND		1.0		ug/L			01/27/22 23:08	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 23:08	1
o-Xylene	ND		1.0		ug/L			01/27/22 23:08	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 23:08	1
p-Cymene	ND		1.0		ug/L			01/27/22 23:08	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
Styrene	ND		1.0		ug/L			01/27/22 23:08	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 23:08	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 23:08	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 23:08	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 23:08	1
Toluene	ND		1.0		ug/L			01/27/22 23:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 23:08	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 23:08	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 23:08	1
Trichloroethene	ND		1.0		ug/L			01/27/22 23:08	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 23:08	1

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

Client Sample ID: SW6-011922
Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 23:08	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 23:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 23:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*01/27/22 23:08*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*01/27/22 23:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*01/27/22 23:08*	*1*

Client Sample ID: SW7-011922
Date Collected: 01/19/22 13:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 23:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 23:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 23:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 23:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 23:31	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 23:31	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 23:31	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 23:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 23:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 23:31	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 23:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 23:31	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 23:31	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 23:31	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 23:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 23:31	1
1,4-Dioxane	ND	*+	40		ug/L			01/27/22 23:31	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 23:31	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 23:31	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 23:31	1
2-Hexanone	ND		5.0		ug/L			01/27/22 23:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 23:31	1
Acetone	ND		10		ug/L			01/27/22 23:31	1
Acetonitrile	ND		15		ug/L			01/27/22 23:31	1
Acrolein	ND		20		ug/L			01/27/22 23:31	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 23:31	1
Benzene	ND		1.0		ug/L			01/27/22 23:31	1
Bromobenzene	ND		1.0		ug/L			01/27/22 23:31	1

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

Client Sample ID: SW7-011922
Date Collected: 01/19/22 13:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.0		ug/L			01/27/22 23:31	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 23:31	1
Bromoform	ND		1.0		ug/L			01/27/22 23:31	1
Bromomethane	ND		1.0		ug/L			01/27/22 23:31	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 23:31	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 23:31	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 23:31	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 23:31	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 23:31	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 23:31	1
Chloroethane	ND		1.0		ug/L			01/27/22 23:31	1
Chloroform	ND		1.0		ug/L			01/27/22 23:31	1
Chloromethane	ND		1.0		ug/L			01/27/22 23:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 23:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 23:31	1
Cyclohexane	ND		1.0		ug/L			01/27/22 23:31	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 23:31	1
Dibromomethane	ND		1.0		ug/L			01/27/22 23:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 23:31	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 23:31	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 23:31	1
Ethyl ether	ND		1.0		ug/L			01/27/22 23:31	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 23:31	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 23:31	1
Hexane	ND		10		ug/L			01/27/22 23:31	1
Iodomethane	ND		1.0		ug/L			01/27/22 23:31	1
Isobutanol	ND	*+	25		ug/L			01/27/22 23:31	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 23:31	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 23:31	1
Methyl acetate	ND		2.5		ug/L			01/27/22 23:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 23:31	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 23:31	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 23:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 23:31	1
Naphthalene	ND		1.0		ug/L			01/27/22 23:31	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 23:31	1
o-Xylene	ND		1.0		ug/L			01/27/22 23:31	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 23:31	1
p-Cymene	ND		1.0		ug/L			01/27/22 23:31	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
Styrene	ND		1.0		ug/L			01/27/22 23:31	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 23:31	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 23:31	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 23:31	1
Tetrahydrofuran	ND	*+	5.0		ug/L			01/27/22 23:31	1

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

Client Sample ID: SW7-011922
Date Collected: 01/19/22 13:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			01/27/22 23:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 23:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 23:31	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 23:31	1
Trichloroethene	ND		1.0		ug/L			01/27/22 23:31	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 23:31	1
Vinyl acetate	ND	*+	5.0		ug/L			01/27/22 23:31	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 23:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/27/22 23:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*01/27/22 23:31*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*01/27/22 23:31*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*01/27/22 23:31*	*1*

Client Sample ID: TB1
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/22 12:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/22 12:03	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/22 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/22 12:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/22 12:03	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/22 12:03	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/22 12:03	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/22 12:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/22 12:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/22 12:03	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/22 12:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/22 12:03	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/22 12:03	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/22 12:03	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/22 12:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/22 12:03	1
1,4-Dioxane	ND	*+	40		ug/L			01/28/22 12:03	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/22 12:03	1
2-Butanone (MEK)	ND		10		ug/L			01/28/22 12:03	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/22 12:03	1
2-Hexanone	ND		5.0		ug/L			01/28/22 12:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/22 12:03	1

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

Client Sample ID: TB1
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			01/28/22 12:03	1
Acetonitrile	ND		15		ug/L			01/28/22 12:03	1
Acrolein	ND		20		ug/L			01/28/22 12:03	1
Acrylonitrile	ND		5.0		ug/L			01/28/22 12:03	1
Benzene	ND		1.0		ug/L			01/28/22 12:03	1
Bromobenzene	ND		1.0		ug/L			01/28/22 12:03	1
Bromochloromethane	ND		1.0		ug/L			01/28/22 12:03	1
Bromodichloromethane	ND		1.0		ug/L			01/28/22 12:03	1
Bromoform	ND		1.0		ug/L			01/28/22 12:03	1
Bromomethane	ND		1.0		ug/L			01/28/22 12:03	1
Butyl alcohol, n-	ND		40		ug/L			01/28/22 12:03	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/22 12:03	1
Carbon disulfide	ND		1.0		ug/L			01/28/22 12:03	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/22 12:03	1
Chlorobenzene	ND		1.0		ug/L			01/28/22 12:03	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/22 12:03	1
Chloroethane	ND		1.0		ug/L			01/28/22 12:03	1
Chloroform	ND		1.0		ug/L			01/28/22 12:03	1
Chloromethane	ND		1.0		ug/L			01/28/22 12:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/22 12:03	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/22 12:03	1
Cyclohexane	ND		1.0		ug/L			01/28/22 12:03	1
Dibromochloromethane	ND		1.0		ug/L			01/28/22 12:03	1
Dibromomethane	ND		1.0		ug/L			01/28/22 12:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/22 12:03	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/22 12:03	1
Ethyl acetate	ND		1.0		ug/L			01/28/22 12:03	1
Ethyl ether	ND		1.0		ug/L			01/28/22 12:03	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/22 12:03	1
Ethylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/22 12:03	1
Hexane	ND		10		ug/L			01/28/22 12:03	1
Iodomethane	ND		1.0		ug/L			01/28/22 12:03	1
Isobutanol	ND	*+	25		ug/L			01/28/22 12:03	1
Isopropyl ether	ND		1.0		ug/L			01/28/22 12:03	1
Isopropylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
Methacrylonitrile	ND		5.0		ug/L			01/28/22 12:03	1
Methyl acetate	ND		2.5		ug/L			01/28/22 12:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/22 12:03	1
Methylcyclohexane	ND		1.0		ug/L			01/28/22 12:03	1
Methylene Chloride	ND		1.0		ug/L			01/28/22 12:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/22 12:03	1
Naphthalene	ND		1.0		ug/L			01/28/22 12:03	1
n-Butylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
N-Propylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/22 12:03	1
o-Xylene	ND		1.0		ug/L			01/28/22 12:03	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/22 12:03	1
p-Cymene	ND		1.0		ug/L			01/28/22 12:03	1

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

Client Sample ID: TB1
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
Styrene	ND		1.0		ug/L			01/28/22 12:03	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/22 12:03	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/22 12:03	1
Tetrachloroethene	ND		1.0		ug/L			01/28/22 12:03	1
Tetrahydrofuran	**8.9**		5.0		ug/L			01/28/22 12:03	1
Toluene	ND		1.0		ug/L			01/28/22 12:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/22 12:03	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/22 12:03	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/22 12:03	1
Trichloroethene	ND		1.0		ug/L			01/28/22 12:03	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/22 12:03	1
Vinyl acetate	ND		5.0		ug/L			01/28/22 12:03	1
Vinyl chloride	ND		1.0		ug/L			01/28/22 12:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Hexachloroethane TIC	*ND*		*ug/L*			*67-72-1*		*01/28/22 12:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*01/28/22 12:03*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*01/28/22 12:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*01/28/22 12:03*	*1*

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: MW5-011922
Date Collected: 01/19/22 10:05
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		01/26/22 13:37	01/28/22 01:15	1

Client Sample ID: MW7-011922
Date Collected: 01/19/22 08:25
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.4**		1.0		ug/L		01/26/22 13:37	01/28/22 01:34	1

Client Sample ID: MW12I-011922
Date Collected: 01/19/22 11:35
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**30**		1.0		ug/L		01/26/22 13:37	01/28/22 01:38	1

Client Sample ID: MW13D-011922
Date Collected: 01/19/22 12:55
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**6.3**		1.0		ug/L		01/26/22 13:37	01/28/22 01:49	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: MW14-011922
Date Collected: 01/19/22 14:10
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1800**		1.0		ug/L		01/26/22 13:37	01/28/22 01:53	1

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**330**		1.0		ug/L		01/26/22 13:37	01/28/22 01:57	1

Client Sample ID: MW20DD-011922
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1800**		1.0		ug/L		01/26/22 13:37	01/28/22 02:00	1

Client Sample ID: SW1-011922
Date Collected: 01/19/22 11:20
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.5**		1.0		ug/L		01/26/22 13:37	01/28/22 02:04	1

Client Sample ID: SW4-011922
Date Collected: 01/19/22 12:15
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**38**		1.0		ug/L		01/26/22 13:37	01/28/22 02:08	1

Client Sample ID: SW6-011922
Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**32**		1.0		ug/L		01/26/22 13:37	01/28/22 02:12	1

Client Sample ID: SW7-011922
Date Collected: 01/19/22 13:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.6**		1.0		ug/L		01/26/22 13:37	01/28/22 02:15	1

General Chemistry

Client Sample ID: MW5-011922
Date Collected: 01/19/22 10:05
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			01/29/22 15:13	1
Sulfate	**7.6**		5.0		mg/L			01/29/22 15:13	1
Ammonia as N	ND		0.030		mg/L			01/28/22 13:14	1
Total Alkalinity	**73**		10		mg/L			01/29/22 05:20	1
Bicarbonate Alkalinity	**73**		10		mg/L			01/29/22 05:20	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:20	1
Total Organic Carbon - Average	ND		1.0		mg/L			01/26/22 04:30	1

General Chemistry

Client Sample ID: MW7-011922
Date Collected: 01/19/22 08:25
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			01/29/22 16:13	1
Sulfate	ND		5.0		mg/L			01/29/22 16:13	1
Ammonia as N	ND		0.030		mg/L			01/28/22 13:16	1
Total Alkalinity	**120**		10		mg/L			01/29/22 05:36	1
Bicarbonate Alkalinity	**120**		10		mg/L			01/29/22 05:36	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:36	1
Total Organic Carbon - Average	**1.5**		1.0		mg/L			01/26/22 04:47	1

Client Sample ID: MW12I-011922
Date Collected: 01/19/22 11:35
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.8**		3.0		mg/L			01/29/22 16:28	1
Sulfate	**6.0**		5.0		mg/L			01/29/22 16:28	1
Ammonia as N	ND		0.030		mg/L			01/28/22 13:54	1
Total Alkalinity	**67**		10		mg/L			01/29/22 05:14	1
Bicarbonate Alkalinity	**67**		10		mg/L			01/29/22 05:14	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:14	1
Total Organic Carbon - Average	**2.0**		1.0		mg/L			01/26/22 05:05	1

Client Sample ID: MW13D-011922
Date Collected: 01/19/22 12:55
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.1**		3.0		mg/L			01/29/22 16:43	1
Sulfate	**15**		5.0		mg/L			01/29/22 16:43	1
Ammonia as N	ND		0.030		mg/L			01/28/22 13:20	1
Total Alkalinity	**74**		10		mg/L			01/29/22 05:42	1
Bicarbonate Alkalinity	**74**		10		mg/L			01/29/22 05:42	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:42	1
Total Organic Carbon - Average	ND		1.0		mg/L			01/26/22 05:20	1

Client Sample ID: MW14-011922
Date Collected: 01/19/22 14:10
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.2**		3.0		mg/L			01/29/22 17:29	1
Sulfate	**7.6**		5.0		mg/L			01/29/22 17:29	1
Ammonia as N	ND		0.030		mg/L			01/28/22 13:18	1
Total Alkalinity	**100**		10		mg/L			01/29/22 06:21	1
Bicarbonate Alkalinity	**100**		10		mg/L			01/29/22 06:21	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 06:21	1
Total Organic Carbon - Average	ND		1.0		mg/L			01/27/22 01:48	1

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.8**		3.0		mg/L			01/29/22 17:44	1
Sulfate	**21**		5.0		mg/L			01/29/22 17:44	1

General Chemistry (Continued)

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			01/28/22 13:56	1
Total Alkalinity	**130**		10		mg/L			01/29/22 04:58	1
Bicarbonate Alkalinity	**130**		10		mg/L			01/29/22 04:58	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 04:58	1
Total Organic Carbon - Average	ND		1.0		mg/L			01/27/22 02:02	1

Client Sample ID: MW20DD-011922
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.2**		3.0		mg/L			01/29/22 17:59	1
Sulfate	**7.5**		5.0		mg/L			01/29/22 17:59	1
Ammonia as N	ND		0.030		mg/L			01/28/22 14:02	1
Total Alkalinity	**100**		10		mg/L			01/29/22 05:04	1
Bicarbonate Alkalinity	**100**		10		mg/L			01/29/22 05:04	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:04	1
Total Organic Carbon - Average	**1.1**		1.0		mg/L			01/26/22 07:09	1

Client Sample ID: SW1-011922
Date Collected: 01/19/22 11:20
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**		3.0		mg/L			01/29/22 18:14	1
Sulfate	**8.5**		5.0		mg/L			01/29/22 18:14	1
Ammonia as N	ND		0.030		mg/L			01/28/22 14:04	1
Total Alkalinity	**69**		10		mg/L			01/29/22 06:10	1
Bicarbonate Alkalinity	**69**		10		mg/L			01/29/22 06:10	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 06:10	1
Total Organic Carbon - Average	**2.5**		1.0		mg/L			01/26/22 07:28	1

Client Sample ID: SW4-011922
Date Collected: 01/19/22 12:15
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		3.0		mg/L			01/29/22 18:29	1
Sulfate	**17**		5.0		mg/L			01/29/22 18:29	1
Ammonia as N	ND		0.030		mg/L			01/28/22 14:06	1
Total Alkalinity	**120**		10		mg/L			01/29/22 05:31	1
Bicarbonate Alkalinity	**120**		10		mg/L			01/29/22 05:31	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:31	1
Total Organic Carbon - Average	**11**		1.0		mg/L			01/26/22 07:42	1

Client Sample ID: SW6-011922
Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.8**		3.0		mg/L			01/29/22 18:44	1
Sulfate	**5.2**		5.0		mg/L			01/29/22 18:44	1
Ammonia as N	ND		0.030		mg/L			01/28/22 14:08	1
Total Alkalinity	**38**		10		mg/L			01/29/22 05:25	1

General Chemistry (Continued)

Client Sample ID: SW6-011922
Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	**38**		10		mg/L			01/29/22 05:25	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:25	1
Total Organic Carbon - Average	**22**		1.0		mg/L			01/26/22 08:01	1

Client Sample ID: SW7-011922
Date Collected: 01/19/22 13:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.8**		3.0		mg/L			01/29/22 19:44	1
Sulfate	**5.8**		5.0		mg/L			01/29/22 19:44	1
Ammonia as N	ND		0.030		mg/L			01/28/22 14:10	1
Total Alkalinity	**40**		10		mg/L			01/29/22 05:09	1
Bicarbonate Alkalinity	**40**		10		mg/L			01/29/22 05:09	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 05:09	1
Total Organic Carbon - Average	**12**		1.0		mg/L			01/26/22 08:20	1

Surrogate Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Method: 8260C - 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	(77-120)	(73-120)	(80-120)
280-158000-1	MW5-011922	96	91	98
280-158000-2	MW7-011922	102	90	96
280-158000-3	MW12I-011922	97	93	96
280-158000-4	MW13D-011922	97	91	96
280-158000-5	MW14-011922	99	92	99
280-158000-6	MW6-011922	97	88	95
280-158000-7	MW20DD-011922	97	89	93
280-158000-8	SW1-011922	97	91	97
280-158000-9	SW4-011922	99	89	97
280-158000-10	SW6-011922	98	90	95
280-158000-11	SW7-011922	96	90	96
280-158000-12	TB1	102	92	97
480-194499-H-3 MS	Matrix Spike	99	94	98
480-194499-H-3 MSD	Matrix Spike Duplicate	98	92	99
LCS 480-613048/6	Lab Control Sample	106	91	98
LCS 480-613122/6	Lab Control Sample	105	90	97
MB 480-613048/8	Method Blank	99	93	97
MB 480-613122/8	Method Blank	101	91	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DBFM	TBA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)
280-158000-1	MW5-011922	114	103
280-158000-2	MW7-011922	111	102
280-158000-3	MW12I-011922	111	108
280-158000-4	MW13D-011922	111	103
280-158000-5	MW14-011922	111	96
280-158000-6	MW6-011922	111	96
280-158000-7	MW20DD-011922	111	98
280-158000-8	SW1-011922	111	101
280-158000-9	SW4-011922	114	96
280-158000-10	SW6-011922	111	101
280-158000-11	SW7-011922	115	100
280-158000-12	TB1	112	96
LCS 480-613095/6	Lab Control Sample	104	109
LCSD 480-613095/7	Lab Control Sample Dup	107	108
MB 480-613095/9	Method Blank	112	98

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TBA = TBA-d9 (Surr)

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

Lab Sample ID: MB 480-613048/8
Matrix: Water
Analysis Batch: 613048

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			01/27/22 16:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/27/22 16:12	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/27/22 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/27/22 16:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/27/22 16:12	1
1,1-Dichloroethane	ND		1.0		ug/L			01/27/22 16:12	1
1,1-Dichloroethene	ND		1.0		ug/L			01/27/22 16:12	1
1,1-Dichloropropene	ND		1.0		ug/L			01/27/22 16:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/27/22 16:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/22 16:12	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/27/22 16:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,2-Dichloroethane	ND		1.0		ug/L			01/27/22 16:12	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/27/22 16:12	1
1,2-Dichloropropane	ND		1.0		ug/L			01/27/22 16:12	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/22 16:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/27/22 16:12	1
1,4-Dioxane	ND		40		ug/L			01/27/22 16:12	1
2,2-Dichloropropane	ND		1.0		ug/L			01/27/22 16:12	1
2-Butanone (MEK)	ND		10		ug/L			01/27/22 16:12	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/27/22 16:12	1
2-Hexanone	ND		5.0		ug/L			01/27/22 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/27/22 16:12	1
Acetone	ND		10		ug/L			01/27/22 16:12	1
Acetonitrile	ND		15		ug/L			01/27/22 16:12	1
Acrolein	ND		20		ug/L			01/27/22 16:12	1
Acrylonitrile	ND		5.0		ug/L			01/27/22 16:12	1
Benzene	ND		1.0		ug/L			01/27/22 16:12	1
Bromobenzene	ND		1.0		ug/L			01/27/22 16:12	1
Bromochloromethane	ND		1.0		ug/L			01/27/22 16:12	1
Bromodichloromethane	ND		1.0		ug/L			01/27/22 16:12	1
Bromoform	ND		1.0		ug/L			01/27/22 16:12	1
Bromomethane	ND		1.0		ug/L			01/27/22 16:12	1
Butyl alcohol, n-	ND		40		ug/L			01/27/22 16:12	1
Butyl alcohol, tert-	ND		10		ug/L			01/27/22 16:12	1
Carbon disulfide	ND		1.0		ug/L			01/27/22 16:12	1
Carbon tetrachloride	ND		1.0		ug/L			01/27/22 16:12	1
Chlorobenzene	ND		1.0		ug/L			01/27/22 16:12	1
Chlorodifluoromethane	ND		1.0		ug/L			01/27/22 16:12	1
Chloroethane	ND		1.0		ug/L			01/27/22 16:12	1
Chloroform	ND		1.0		ug/L			01/27/22 16:12	1
Chloromethane	ND		1.0		ug/L			01/27/22 16:12	1

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

Lab Sample ID: MB 480-613048/8
Matrix: Water
Analysis Batch: 613048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 16:12	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 16:12	1
Cyclohexane	ND		1.0		ug/L			01/27/22 16:12	1
Dibromochloromethane	ND		1.0		ug/L			01/27/22 16:12	1
Dibromomethane	ND		1.0		ug/L			01/27/22 16:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/27/22 16:12	1
Dichlorofluoromethane	ND		1.0		ug/L			01/27/22 16:12	1
Ethyl acetate	ND		1.0		ug/L			01/27/22 16:12	1
Ethyl ether	ND		1.0		ug/L			01/27/22 16:12	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/27/22 16:12	1
Ethylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
Hexachlorobutadiene	ND		2.0		ug/L			01/27/22 16:12	1
Hexane	ND		10		ug/L			01/27/22 16:12	1
Iodomethane	ND		1.0		ug/L			01/27/22 16:12	1
Isobutanol	ND		25		ug/L			01/27/22 16:12	1
Isopropyl ether	ND		1.0		ug/L			01/27/22 16:12	1
Isopropylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
Methacrylonitrile	ND		5.0		ug/L			01/27/22 16:12	1
Methyl acetate	ND		2.5		ug/L			01/27/22 16:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/27/22 16:12	1
Methylcyclohexane	ND		1.0		ug/L			01/27/22 16:12	1
Methylene Chloride	ND		1.0		ug/L			01/27/22 16:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/27/22 16:12	1
Naphthalene	ND		1.0		ug/L			01/27/22 16:12	1
n-Butylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
N-Propylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
o-Chlorotoluene	ND		1.0		ug/L			01/27/22 16:12	1
o-Xylene	ND		1.0		ug/L			01/27/22 16:12	1
p-Chlorotoluene	ND		1.0		ug/L			01/27/22 16:12	1
p-Cymene	ND		1.0		ug/L			01/27/22 16:12	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
Styrene	ND		1.0		ug/L			01/27/22 16:12	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/27/22 16:12	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/22 16:12	1
Tetrachloroethene	ND		1.0		ug/L			01/27/22 16:12	1
Tetrahydrofuran	ND		5.0		ug/L			01/27/22 16:12	1
Toluene	ND		1.0		ug/L			01/27/22 16:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/27/22 16:12	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/27/22 16:12	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/27/22 16:12	1
Trichloroethene	ND		1.0		ug/L			01/27/22 16:12	1
Trichlorofluoromethane	ND		1.0		ug/L			01/27/22 16:12	1
Vinyl acetate	ND		5.0		ug/L			01/27/22 16:12	1
Vinyl chloride	ND		1.0		ug/L			01/27/22 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*01/27/22 16:12*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*01/27/22 16:12*	*1*

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

Lab Sample ID: MB 480-613048/8
Matrix: Water
Analysis Batch: 613048

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		01/27/22 16:12	1

Lab Sample ID: LCS 480-613048/6
Matrix: Water
Analysis Batch: 613048

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	25.0	26.3		ug/L		105	80 - 120
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.3		ug/L		109	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.0		ug/L		92	61 - 148
1,1,2-Trichloroethane	25.0	25.6		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	25.3		ug/L		101	66 - 127
1,1-Dichloropropene	25.0	24.5		ug/L		98	72 - 122
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	75 - 123
1,2,3-Trichloropropane	25.0	26.5		ug/L		106	68 - 122
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	79 - 122
1,2,4-Trimethylbenzene	25.0	25.9		ug/L		104	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	27.8		ug/L		111	56 - 134
1,2-Dibromoethane (EDB)	25.0	25.4		ug/L		102	77 - 120
1,2-Dichlorobenzene	25.0	25.1		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	25.2		ug/L		101	75 - 120
1,2-Dichloroethene, Total	50.0	47.0		ug/L		94	72 - 124
1,2-Dichloropropane	25.0	25.1		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	25.0	26.7		ug/L		107	77 - 121
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 120
1,3-Dichloropropane	25.0	26.3		ug/L		105	75 - 120
1,4-Dichlorobenzene	25.0	25.4		ug/L		101	80 - 120
1,4-Dioxane	500	875	*+	ug/L		175	50 - 150
2,2-Dichloropropane	25.0	23.2		ug/L		93	63 - 136
2-Butanone (MEK)	125	137		ug/L		110	57 - 140
2-Chloroethyl vinyl ether	25.0	22.3		ug/L		89	70 - 129
2-Hexanone	125	136		ug/L		109	65 - 127
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	71 - 125
Acetone	125	141		ug/L		113	56 - 142
Acrolein	125	118		ug/L		95	52 - 143
Acrylonitrile	250	253		ug/L		101	63 - 125
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromobenzene	25.0	26.1		ug/L		104	78 - 120
Bromochloromethane	25.0	24.0		ug/L		96	72 - 130
Bromodichloromethane	25.0	27.3		ug/L		109	80 - 122
Bromoform	25.0	26.1		ug/L		104	61 - 132
Bromomethane	25.0	21.6		ug/L		86	55 - 144
Butyl alcohol, tert-	250	298		ug/L		119	75 - 125
Carbon disulfide	25.0	23.8		ug/L		95	59 - 134
Carbon tetrachloride	25.0	22.4		ug/L		90	72 - 134
Chlorobenzene	25.0	25.4		ug/L		101	80 - 120

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

Lab Sample ID: LCS 480-613048/6
Matrix: Water
Analysis Batch: 613048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	22.5		ug/L		90	69 - 136
Chloroform	25.0	24.6		ug/L		99	73 - 127
Chloromethane	25.0	22.3		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	74 - 124
Cyclohexane	25.0	22.8		ug/L		91	59 - 135
Dibromochloromethane	25.0	27.5		ug/L		110	75 - 125
Dibromomethane	25.0	25.0		ug/L		100	76 - 127
Dichlorodifluoromethane	25.0	22.3		ug/L		89	59 - 135
Dichlorofluoromethane	25.0	23.1		ug/L		92	76 - 127
Ethyl ether	25.0	25.6		ug/L		102	76 - 123
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Hexachlorobutadiene	25.0	24.9		ug/L		100	68 - 131
Hexane	25.0	23.2		ug/L		93	54 - 146
Iodomethane	25.0	24.4		ug/L		98	78 - 123
Isobutanol	625	1730	*+	ug/L		276	51 - 150
Isopropylbenzene	25.0	24.1		ug/L		97	77 - 122
Methyl acetate	50.0	47.8		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	24.4		ug/L		98	77 - 120
Methylcyclohexane	25.0	22.3		ug/L		89	68 - 134
Methylene Chloride	25.0	23.0		ug/L		92	75 - 124
m-Xylene & p-Xylene	25.0	24.4		ug/L		98	76 - 122
Naphthalene	25.0	25.4		ug/L		102	66 - 125
n-Butylbenzene	25.0	23.6		ug/L		95	71 - 128
N-Propylbenzene	25.0	23.7		ug/L		95	75 - 127
o-Chlorotoluene	25.0	25.2		ug/L		101	76 - 121
o-Xylene	25.0	24.3		ug/L		97	76 - 122
p-Chlorotoluene	25.0	27.8		ug/L		111	77 - 121
p-Cymene	25.0	23.1		ug/L		92	73 - 120
sec-Butylbenzene	25.0	23.5		ug/L		94	74 - 127
Styrene	25.0	24.3		ug/L		97	80 - 120
tert-Butylbenzene	25.0	23.9		ug/L		96	75 - 123
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Tetrahydrofuran	50.0	68.0	*+	ug/L		136	62 - 132
Toluene	25.0	24.9		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	27.7		ug/L		111	80 - 120
trans-1,4-Dichloro-2-butene	25.0	25.9		ug/L		103	41 - 131
Trichloroethene	25.0	24.8		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	22.8		ug/L		91	62 - 150
Vinyl acetate	50.0	77.1	*+	ug/L		154	50 - 144
Vinyl chloride	25.0	22.3		ug/L		89	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: MB 480-613122/8
Matrix: Water
Analysis Batch: 613122

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			01/28/22 11:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/22 11:16	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/22 11:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/22 11:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/22 11:16	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/22 11:16	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/22 11:16	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/22 11:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/22 11:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/22 11:16	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/22 11:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/22 11:16	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/22 11:16	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/22 11:16	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/22 11:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/22 11:16	1
1,4-Dioxane	ND		40		ug/L			01/28/22 11:16	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/22 11:16	1
2-Butanone (MEK)	ND		10		ug/L			01/28/22 11:16	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/22 11:16	1
2-Hexanone	ND		5.0		ug/L			01/28/22 11:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/22 11:16	1
Acetone	ND		10		ug/L			01/28/22 11:16	1
Acetonitrile	ND		15		ug/L			01/28/22 11:16	1
Acrolein	ND		20		ug/L			01/28/22 11:16	1
Acrylonitrile	ND		5.0		ug/L			01/28/22 11:16	1
Benzene	ND		1.0		ug/L			01/28/22 11:16	1
Bromobenzene	ND		1.0		ug/L			01/28/22 11:16	1
Bromochloromethane	ND		1.0		ug/L			01/28/22 11:16	1
Bromodichloromethane	ND		1.0		ug/L			01/28/22 11:16	1
Bromoform	ND		1.0		ug/L			01/28/22 11:16	1
Bromomethane	ND		1.0		ug/L			01/28/22 11:16	1
Butyl alcohol, n-	ND		40		ug/L			01/28/22 11:16	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/22 11:16	1
Carbon disulfide	ND		1.0		ug/L			01/28/22 11:16	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/22 11:16	1
Chlorobenzene	ND		1.0		ug/L			01/28/22 11:16	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/22 11:16	1
Chloroethane	ND		1.0		ug/L			01/28/22 11:16	1
Chloroform	ND		1.0		ug/L			01/28/22 11:16	1
Chloromethane	ND		1.0		ug/L			01/28/22 11:16	1

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

Lab Sample ID: MB 480-613122/8
Matrix: Water
Analysis Batch: 613122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/22 11:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/22 11:16	1
Cyclohexane	ND		1.0		ug/L			01/28/22 11:16	1
Dibromochloromethane	ND		1.0		ug/L			01/28/22 11:16	1
Dibromomethane	ND		1.0		ug/L			01/28/22 11:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/22 11:16	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/22 11:16	1
Ethyl acetate	ND		1.0		ug/L			01/28/22 11:16	1
Ethyl ether	ND		1.0		ug/L			01/28/22 11:16	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/22 11:16	1
Ethylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/22 11:16	1
Hexane	ND		10		ug/L			01/28/22 11:16	1
Iodomethane	ND		1.0		ug/L			01/28/22 11:16	1
Isobutanol	ND		25		ug/L			01/28/22 11:16	1
Isopropyl ether	ND		1.0		ug/L			01/28/22 11:16	1
Isopropylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
Methacrylonitrile	ND		5.0		ug/L			01/28/22 11:16	1
Methyl acetate	ND		2.5		ug/L			01/28/22 11:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/22 11:16	1
Methylcyclohexane	ND		1.0		ug/L			01/28/22 11:16	1
Methylene Chloride	ND		1.0		ug/L			01/28/22 11:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/22 11:16	1
Naphthalene	ND		1.0		ug/L			01/28/22 11:16	1
n-Butylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
N-Propylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/22 11:16	1
o-Xylene	ND		1.0		ug/L			01/28/22 11:16	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/22 11:16	1
p-Cymene	ND		1.0		ug/L			01/28/22 11:16	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
Styrene	ND		1.0		ug/L			01/28/22 11:16	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/22 11:16	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/22 11:16	1
Tetrachloroethene	ND		1.0		ug/L			01/28/22 11:16	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/22 11:16	1
Toluene	ND		1.0		ug/L			01/28/22 11:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/22 11:16	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/22 11:16	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/22 11:16	1
Trichloroethene	ND		1.0		ug/L			01/28/22 11:16	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/22 11:16	1
Vinyl acetate	ND		5.0		ug/L			01/28/22 11:16	1
Vinyl chloride	ND		1.0		ug/L			01/28/22 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*01/28/22 11:16*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*01/28/22 11:16*	*1*

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

Lab Sample ID: MB 480-613122/8
Matrix: Water
Analysis Batch: 613122

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		01/28/22 11:16	1

Lab Sample ID: LCS 480-613122/6
Matrix: Water
Analysis Batch: 613122

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	25.0	25.2		ug/L		101	80 - 120
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.9		ug/L		88	61 - 148
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	25.2		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	25.4		ug/L		102	66 - 127
1,1-Dichloropropene	25.0	25.0		ug/L		100	72 - 122
1,2,3-Trichlorobenzene	25.0	23.4		ug/L		94	75 - 123
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	68 - 122
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	79 - 122
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		102	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	27.0		ug/L		108	56 - 134
1,2-Dibromoethane (EDB)	25.0	23.9		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	24.6		ug/L		98	75 - 120
1,2-Dichloroethene, Total	50.0	45.9		ug/L		92	72 - 124
1,2-Dichloropropane	25.0	24.4		ug/L		98	76 - 120
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	77 - 121
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,3-Dichloropropane	25.0	24.5		ug/L		98	75 - 120
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 120
1,4-Dioxane	500	876	*+	ug/L		175	50 - 150
2,2-Dichloropropane	25.0	24.4		ug/L		98	63 - 136
2-Butanone (MEK)	125	155		ug/L		124	57 - 140
2-Chloroethyl vinyl ether	25.0	25.4		ug/L		102	70 - 129
2-Hexanone	125	134		ug/L		107	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	156		ug/L		125	56 - 142
Acrolein	125	125		ug/L		100	52 - 143
Acrylonitrile	250	250		ug/L		100	63 - 125
Benzene	25.0	23.7		ug/L		95	71 - 124
Bromobenzene	25.0	25.0		ug/L		100	78 - 120
Bromochloromethane	25.0	23.6		ug/L		94	72 - 130
Bromodichloromethane	25.0	26.0		ug/L		104	80 - 122
Bromoform	25.0	24.3		ug/L		97	61 - 132
Bromomethane	25.0	22.5		ug/L		90	55 - 144
Butyl alcohol, tert-	250	297		ug/L		119	75 - 125
Carbon disulfide	25.0	24.0		ug/L		96	59 - 134
Carbon tetrachloride	25.0	22.1		ug/L		88	72 - 134
Chlorobenzene	25.0	23.9		ug/L		96	80 - 120

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

Lab Sample ID: LCS 480-613122/6
Matrix: Water
Analysis Batch: 613122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	23.0		ug/L		92	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	22.4		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	74 - 124
Cyclohexane	25.0	22.6		ug/L		91	59 - 135
Dibromochloromethane	25.0	25.1		ug/L		100	75 - 125
Dibromomethane	25.0	24.4		ug/L		97	76 - 127
Dichlorodifluoromethane	25.0	21.2		ug/L		85	59 - 135
Dichlorofluoromethane	25.0	22.8		ug/L		91	76 - 127
Ethyl ether	25.0	25.0		ug/L		100	76 - 123
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
Hexachlorobutadiene	25.0	23.2		ug/L		93	68 - 131
Hexane	25.0	22.7		ug/L		91	54 - 146
Iodomethane	25.0	24.2		ug/L		97	78 - 123
Isobutanol	625	2010	*+	ug/L		322	51 - 150
Isopropylbenzene	25.0	23.4		ug/L		94	77 - 122
Methyl acetate	50.0	46.6		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	23.7		ug/L		95	77 - 120
Methylcyclohexane	25.0	21.6		ug/L		86	68 - 134
Methylene Chloride	25.0	22.0		ug/L		88	75 - 124
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	76 - 122
Naphthalene	25.0	23.9		ug/L		96	66 - 125
n-Butylbenzene	25.0	22.4		ug/L		90	71 - 128
N-Propylbenzene	25.0	23.4		ug/L		93	75 - 127
o-Chlorotoluene	25.0	25.0		ug/L		100	76 - 121
o-Xylene	25.0	23.6		ug/L		94	76 - 122
p-Chlorotoluene	25.0	27.2		ug/L		109	77 - 121
p-Cymene	25.0	22.0		ug/L		88	73 - 120
sec-Butylbenzene	25.0	22.5		ug/L		90	74 - 127
Styrene	25.0	23.6		ug/L		94	80 - 120
tert-Butylbenzene	25.0	22.9		ug/L		91	75 - 123
Tetrachloroethene	25.0	23.9		ug/L		95	74 - 122
Tetrahydrofuran	50.0	64.5		ug/L		129	62 - 132
Toluene	25.0	23.9		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	25.5		ug/L		102	80 - 120
trans-1,4-Dichloro-2-butene	25.0	26.1		ug/L		104	41 - 131
Trichloroethene	25.0	24.1		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	21.5		ug/L		86	62 - 150
Vinyl acetate	50.0	61.9		ug/L		124	50 - 144
Vinyl chloride	25.0	22.3		ug/L		89	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: 480-194499-H-3 MS
Matrix: Water
Analysis Batch: 613122

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	991		ug/L		99	80 - 120
1,1,1-Trichloroethane	ND		1000	915		ug/L		91	73 - 126
1,1,2,2-Tetrachloroethane	ND		1000	1090		ug/L		109	76 - 120
1,1,2-Trichloroethane	ND		1000	1050		ug/L		105	76 - 122
1,1-Dichloroethane	180		1000	1210		ug/L		102	77 - 120
1,1-Dichloroethene	ND		1000	1100		ug/L		107	66 - 127
1,1-Dichloropropene	ND		1000	1030		ug/L		103	72 - 122
1,2,3-Trichlorobenzene	ND		1000	952		ug/L		95	75 - 123
1,2,3-Trichloropropane	ND		1000	1110		ug/L		111	68 - 122
1,2,4-Trichlorobenzene	ND		1000	941		ug/L		94	79 - 122
1,2,4-Trimethylbenzene	ND		1000	1070		ug/L		107	76 - 121
1,2-Dibromo-3-Chloropropane	ND		1000	1050		ug/L		105	56 - 134
1,2-Dibromoethane (EDB)	ND		1000	1010		ug/L		101	77 - 120
1,2-Dichlorobenzene	ND		1000	1030		ug/L		103	80 - 124
1,2-Dichloroethane	ND		1000	1030		ug/L		103	75 - 120
1,2-Dichloroethene, Total	1100		2000	2950		ug/L		93	72 - 124
1,2-Dichloropropane	ND		1000	1030		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	ND		1000	1070		ug/L		107	77 - 121
1,3-Dichlorobenzene	ND		1000	1030		ug/L		103	77 - 120
1,3-Dichloropropane	ND		1000	1060		ug/L		106	75 - 120
1,4-Dichlorobenzene	ND		1000	1040		ug/L		104	78 - 124
2,2-Dichloropropane	ND		1000	923		ug/L		92	63 - 136
2-Butanone (MEK)	ND		5000	5730		ug/L		115	57 - 140
2-Chloroethyl vinyl ether	ND		1000	1050		ug/L		105	70 - 129
2-Hexanone	ND		5000	5830		ug/L		117	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		5000	5620		ug/L		112	71 - 125
Acetone	ND		5000	6020		ug/L		120	56 - 142
Acrolein	ND		5000	5060		ug/L		101	52 - 143
Acrylonitrile	ND		10000	10600		ug/L		106	63 - 125
Benzene	ND		1000	1020		ug/L		102	71 - 124
Bromobenzene	ND		1000	1060		ug/L		106	78 - 120
Bromochloromethane	ND		1000	987		ug/L		99	72 - 130
Bromodichloromethane	ND		1000	1040		ug/L		104	80 - 122
Bromoform	ND		1000	956		ug/L		96	61 - 132
Bromomethane	ND		1000	970		ug/L		97	55 - 144
Carbon disulfide	ND		1000	1010		ug/L		101	59 - 134
Carbon tetrachloride	ND		1000	878		ug/L		88	72 - 134
Chlorobenzene	ND		1000	996		ug/L		100	80 - 120
Chloroethane	52		1000	1040		ug/L		99	69 - 136
Chloroform	ND		1000	997		ug/L		100	73 - 127
Chloromethane	ND		1000	976		ug/L		98	68 - 124
cis-1,2-Dichloroethene	1100	F1	1000	1970		ug/L		84	74 - 124
cis-1,3-Dichloropropene	ND		1000	976		ug/L		98	74 - 124
Dibromochloromethane	ND		1000	982		ug/L		98	75 - 125
Dibromomethane	ND		1000	1010		ug/L		101	76 - 127
Dichlorodifluoromethane	ND		1000	856		ug/L		86	59 - 135
Ethyl ether	ND		1000	1070		ug/L		107	76 - 123
Ethylbenzene	ND		1000	1010		ug/L		101	77 - 123

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

Lab Sample ID: 480-194499-H-3 MS
Matrix: Water
Analysis Batch: 613122

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
Hexachlorobutadiene	ND		1000	898		ug/L		90	68 - 131
Iodomethane	ND		1000	1000		ug/L		100	78 - 123
Isopropylbenzene	ND		1000	996		ug/L		100	77 - 122
Methyl tert-butyl ether	ND		1000	967		ug/L		97	77 - 120
Methylene Chloride	ND		1000	933		ug/L		93	75 - 124
m-Xylene & p-Xylene	ND		1000	1010		ug/L		101	76 - 122
Naphthalene	ND		1000	995		ug/L		100	66 - 125
n-Butylbenzene	ND		1000	936		ug/L		94	71 - 128
N-Propylbenzene	ND		1000	988		ug/L		99	75 - 127
o-Chlorotoluene	ND		1000	1040		ug/L		104	76 - 121
o-Xylene	ND		1000	989		ug/L		99	76 - 122
p-Chlorotoluene	ND		1000	1060		ug/L		106	77 - 121
p-Cymene	ND		1000	919		ug/L		92	73 - 120
sec-Butylbenzene	ND		1000	949		ug/L		95	74 - 127
Styrene	ND		1000	1020		ug/L		102	80 - 120
tert-Butylbenzene	ND		1000	952		ug/L		95	75 - 123
Tetrachloroethene	ND		1000	1010		ug/L		101	74 - 122
Tetrahydrofuran	ND		2000	2100		ug/L		105	62 - 132
Toluene	ND		1000	1010		ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND		1000	984		ug/L		98	73 - 127
trans-1,3-Dichloropropene	ND		1000	1030		ug/L		103	80 - 120
trans-1,4-Dichloro-2-butene	ND		1000	1080		ug/L		108	41 - 131
Trichloroethene	230		1000	1220		ug/L		98	74 - 123
Trichlorofluoromethane	ND		1000	925		ug/L		93	62 - 150
Vinyl acetate	ND		2000	2070		ug/L		103	50 - 144
Vinyl chloride	270		1000	1200		ug/L		92	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 480-194499-H-3 MSD
Matrix: Water
Analysis Batch: 613122

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	934		ug/L		93	80 - 120	6	20
1,1,1-Trichloroethane	ND		1000	821		ug/L		82	73 - 126	11	15
1,1,2,2-Tetrachloroethane	ND		1000	1020		ug/L		102	76 - 120	6	15
1,1,2-Trichloroethane	ND		1000	960		ug/L		96	76 - 122	9	15
1,1-Dichloroethane	180		1000	1090		ug/L		91	77 - 120	10	20
1,1-Dichloroethene	ND		1000	954		ug/L		92	66 - 127	14	16
1,1-Dichloropropene	ND		1000	922		ug/L		92	72 - 122	11	20
1,2,3-Trichlorobenzene	ND		1000	928		ug/L		93	75 - 123	3	20
1,2,3-Trichloropropane	ND		1000	1010		ug/L		101	68 - 122	10	14
1,2,4-Trichlorobenzene	ND		1000	879		ug/L		88	79 - 122	7	20
1,2,4-Trimethylbenzene	ND		1000	963		ug/L		96	76 - 121	10	20

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

Lab Sample ID: 480-194499-H-3 MSD
Matrix: Water
Analysis Batch: 613122

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
1,2-Dibromo-3-Chloropropane	ND		1000	994		ug/L		99	56 - 134	5	15
1,2-Dibromoethane (EDB)	ND		1000	949		ug/L		95	77 - 120	7	15
1,2-Dichlorobenzene	ND		1000	939		ug/L		94	80 - 124	9	20
1,2-Dichloroethane	ND		1000	955		ug/L		96	75 - 120	7	20
1,2-Dichloroethene, Total	1100		2000	2680		ug/L		79	72 - 124	10	20
1,2-Dichloropropane	ND		1000	939		ug/L		94	76 - 120	9	20
1,3,5-Trimethylbenzene	ND		1000	955		ug/L		95	77 - 121	11	20
1,3-Dichlorobenzene	ND		1000	920		ug/L		92	77 - 120	11	20
1,3-Dichloropropane	ND		1000	972		ug/L		97	75 - 120	9	20
1,4-Dichlorobenzene	ND		1000	934		ug/L		93	78 - 124	11	20
2,2-Dichloropropane	ND		1000	800		ug/L		80	63 - 136	14	20
2-Butanone (MEK)	ND		5000	5310		ug/L		106	57 - 140	8	20
2-Chloroethyl vinyl ether	ND		1000	944		ug/L		94	70 - 129	11	20
2-Hexanone	ND		5000	5440		ug/L		109	65 - 127	7	15
4-Methyl-2-pentanone (MIBK)	ND		5000	5340		ug/L		107	71 - 125	5	35
Acetone	ND		5000	5910		ug/L		118	56 - 142	2	15
Acrolein	ND		5000	4690		ug/L		94	52 - 143	8	20
Acrylonitrile	ND		10000	10200		ug/L		102	63 - 125	4	20
Benzene	ND		1000	911		ug/L		91	71 - 124	11	13
Bromobenzene	ND		1000	967		ug/L		97	78 - 120	9	15
Bromochloromethane	ND		1000	923		ug/L		92	72 - 130	7	15
Bromodichloromethane	ND		1000	972		ug/L		97	80 - 122	7	15
Bromoform	ND		1000	902		ug/L		90	61 - 132	6	15
Bromomethane	ND		1000	863		ug/L		86	55 - 144	12	15
Carbon disulfide	ND		1000	907		ug/L		91	59 - 134	11	15
Carbon tetrachloride	ND		1000	801		ug/L		80	72 - 134	9	15
Chlorobenzene	ND		1000	927		ug/L		93	80 - 120	7	25
Chloroethane	52		1000	911		ug/L		86	69 - 136	13	15
Chloroform	ND		1000	916		ug/L		92	73 - 127	8	20
Chloromethane	ND		1000	876		ug/L		88	68 - 124	11	15
cis-1,2-Dichloroethene	1100	F1	1000	1790	F1	ug/L		67	74 - 124	9	15
cis-1,3-Dichloropropene	ND		1000	916		ug/L		92	74 - 124	6	15
Dibromochloromethane	ND		1000	935		ug/L		93	75 - 125	5	15
Dibromomethane	ND		1000	923		ug/L		92	76 - 127	9	15
Dichlorodifluoromethane	ND		1000	728		ug/L		73	59 - 135	16	20
Ethyl ether	ND		1000	1020		ug/L		102	76 - 123	4	20
Ethylbenzene	ND		1000	899		ug/L		90	77 - 123	12	15
Hexachlorobutadiene	ND		1000	850		ug/L		85	68 - 131	6	20
Iodomethane	ND		1000	913		ug/L		91	78 - 123	10	20
Isopropylbenzene	ND		1000	868		ug/L		87	77 - 122	14	20
Methyl tert-butyl ether	ND		1000	931		ug/L		93	77 - 120	4	37
Methylene Chloride	ND		1000	883		ug/L		88	75 - 124	5	15
m-Xylene & p-Xylene	ND		1000	902		ug/L		90	76 - 122	11	16
Naphthalene	ND		1000	952		ug/L		95	66 - 125	4	20
n-Butylbenzene	ND		1000	830		ug/L		83	71 - 128	12	15
N-Propylbenzene	ND		1000	884		ug/L		88	75 - 127	11	15
o-Chlorotoluene	ND		1000	944		ug/L		94	76 - 121	10	20
o-Xylene	ND		1000	905		ug/L		90	76 - 122	9	16
p-Chlorotoluene	ND		1000	939		ug/L		94	77 - 121	12	15

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

Lab Sample ID: 480-194499-H-3 MSD
Matrix: Water
Analysis Batch: 613122

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
p-Cymene	ND		1000	834		ug/L		83	73 - 120	10	20
sec-Butylbenzene	ND		1000	854		ug/L		85	74 - 127	11	15
Styrene	ND		1000	923		ug/L		92	80 - 120	9	20
tert-Butylbenzene	ND		1000	866		ug/L		87	75 - 123	9	15
Tetrachloroethene	ND		1000	901		ug/L		90	74 - 122	11	20
Tetrahydrofuran	ND		2000	1950		ug/L		98	62 - 132	7	25
Toluene	ND		1000	904		ug/L		90	80 - 122	11	15
trans-1,2-Dichloroethene	ND		1000	891		ug/L		89	73 - 127	10	20
trans-1,3-Dichloropropene	ND		1000	963		ug/L		96	80 - 120	7	15
trans-1,4-Dichloro-2-butene	ND		1000	968		ug/L		97	41 - 131	11	20
Trichloroethene	230		1000	1070		ug/L		84	74 - 123	13	16
Trichlorofluoromethane	ND		1000	818		ug/L		82	62 - 150	12	20
Vinyl acetate	ND		2000	1950		ug/L		97	50 - 144	6	23
Vinyl chloride	270		1000	1060		ug/L		79	65 - 133	12	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: MB 480-613095/9
Matrix: Water
Analysis Batch: 613095

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			01/27/22 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*50 - 150*		*01/27/22 20:57*	*1*
TBA-d9 (Surr)	*98*		*50 - 150*		*01/27/22 20:57*	*1*

Lab Sample ID: LCS 480-613095/6
Matrix: Water
Analysis Batch: 613095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl chloride			0.200	0.169		ug/L		85	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*50 - 150*
TBA-d9 (Surr)	*109*		*50 - 150*

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

Lab Sample ID: LCSD 480-613095/7
Matrix: Water
Analysis Batch: 613095

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			0.200	0.172		ug/L		86	50 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*50 - 150*
TBA-d9 (Surr)	*108*		*50 - 150*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-564316/1-A
Matrix: Water
Analysis Batch: 564618

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 564316

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		01/26/22 13:37	01/28/22 01:07	1

Lab Sample ID: LCS 280-564316/2-A
Matrix: Water
Analysis Batch: 564618

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 564316

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese			40.0	39.8		ug/L		100	85 - 117

Lab Sample ID: 280-158000-1 MS
Matrix: Water
Analysis Batch: 564618

Client Sample ID: MW5-011922
Prep Type: Dissolved
Prep Batch: 564316

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	ND		40.0	40.0		ug/L		100	85 - 117

Lab Sample ID: 280-158000-1 MSD
Matrix: Water
Analysis Batch: 564618

Client Sample ID: MW5-011922
Prep Type: Dissolved
Prep Batch: 564316

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	ND		40.0	40.5		ug/L		101	85 - 117	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-564713/39
Matrix: Water
Analysis Batch: 564713

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			01/29/22 19:29	1
Sulfate	ND		5.0		mg/L			01/29/22 19:29	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-564713/6
Matrix: Water
Analysis Batch: 564713

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			01/29/22 11:13	1
Sulfate	ND		5.0		mg/L			01/29/22 11:13	1

Lab Sample ID: LCS 280-564713/37
Matrix: Water
Analysis Batch: 564713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	101		mg/L		101	90 - 110
Sulfate	100	99.8		mg/L		100	90 - 110

Lab Sample ID: LCS 280-564713/4
Matrix: Water
Analysis Batch: 564713

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	99.5		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-564713/38
Matrix: Water
Analysis Batch: 564713

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	100		mg/L		100	90 - 110	0	10

Lab Sample ID: LCSD 280-564713/5
Matrix: Water
Analysis Batch: 564713

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	0	10
Sulfate	100	99.5		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-564713/3
Matrix: Water
Analysis Batch: 564713

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	4.52		mg/L		90	50 - 150
Sulfate	5.00	ND		mg/L		83	50 - 150

Lab Sample ID: 280-158000-1 MS
Matrix: Water
Analysis Batch: 564713

Client Sample ID: MW5-011922
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		50.0	53.9		mg/L		104	80 - 120
Sulfate	7.6		50.0	59.9		mg/L		105	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-158000-1 MSD
Matrix: Water
Analysis Batch: 564713

Client Sample ID: MW5-011922
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	55.0		mg/L		107	80 - 120	2	20
Sulfate	7.6		50.0	61.1		mg/L		107	80 - 120	2	20

Lab Sample ID: 280-158000-11 MS
Matrix: Water
Analysis Batch: 564713

Client Sample ID: SW7-011922
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	3.8		50.0	56.0		mg/L		105	80 - 120		
Sulfate	5.8		50.0	58.0		mg/L		104	80 - 120		

Lab Sample ID: 280-158000-11 MSD
Matrix: Water
Analysis Batch: 564713

Client Sample ID: SW7-011922
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.8		50.0	55.8		mg/L		104	80 - 120	0	20
Sulfate	5.8		50.0	57.7		mg/L		104	80 - 120	0	20

Lab Sample ID: 280-158000-1 DU
Matrix: Water
Analysis Batch: 564713

Client Sample ID: MW5-011922
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	7.6			7.58		mg/L				0.06	15

Lab Sample ID: 280-158000-11 DU
Matrix: Water
Analysis Batch: 564713

Client Sample ID: SW7-011922
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	3.8			3.78		mg/L				0.6	15
Sulfate	5.8			5.83		mg/L				0.5	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-564693/20
Matrix: Water
Analysis Batch: 564693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			01/28/22 13:00	1

Lab Sample ID: LCS 280-564693/18
Matrix: Water
Analysis Batch: 564693

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			2.50	2.49		mg/L		100	90 - 110		

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 280-564693/19
Matrix: Water
Analysis Batch: 564693

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
Ammonia as N			2.50	2.51		mg/L		100	90 - 110	1	10

Lab Sample ID: 280-158000-6 MS
Matrix: Water
Analysis Batch: 564693

Client Sample ID: MW6-011922
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	0.951		mg/L		95	90 - 110

Lab Sample ID: 280-158000-6 MSD
Matrix: Water
Analysis Batch: 564693

Client Sample ID: MW6-011922
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	0.956		mg/L		96	90 - 110	0	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-564874/110
Matrix: Water
Analysis Batch: 564874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			01/29/22 06:04	1
Bicarbonate Alkalinity	ND		10		mg/L			01/29/22 06:04	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 06:04	1

Lab Sample ID: MB 280-564874/84
Matrix: Water
Analysis Batch: 564874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		10		mg/L			01/29/22 03:10	1
Bicarbonate Alkalinity	ND		10		mg/L			01/29/22 03:10	1
Carbonate Alkalinity	ND		10		mg/L			01/29/22 03:10	1

Lab Sample ID: LCS 280-564874/109
Matrix: Water
Analysis Batch: 564874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity			200	218		mg/L		109	89 - 109

Lab Sample ID: LCS 280-564874/83
Matrix: Water
Analysis Batch: 564874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity			200	201		mg/L		101	89 - 109

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-157933-C-1 DU
Matrix: Water
Analysis Batch: 564874

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	280		289		mg/L		4	10
Bicarbonate Alkalinity	280		289		mg/L		4	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

Lab Sample ID: 280-158000-8 DU
Matrix: Water
Analysis Batch: 564874

Client Sample ID: SW1-011922
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	69		71.4		mg/L		4	10
Bicarbonate Alkalinity	69		71.4		mg/L		4	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-564426/35
Matrix: Water
Analysis Batch: 564426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			01/26/22 01:14	1

Lab Sample ID: LCS 280-564426/34
Matrix: Water
Analysis Batch: 564426

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		101	88 - 112

Lab Sample ID: 280-158000-5 MS
Matrix: Water
Analysis Batch: 564426

Client Sample ID: MW14-011922
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	25.7		mg/L		99	88 - 112

Lab Sample ID: 280-158000-5 MSD
Matrix: Water
Analysis Batch: 564426

Client Sample ID: MW14-011922
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	25.4		mg/L		98	88 - 112	1	15

Lab Sample ID: MB 280-564497/26
Matrix: Water
Analysis Batch: 564497

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			01/26/22 23:07	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 280-564497/4
Matrix: Water
Analysis Batch: 564497

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	ND		1.0		mg/L			01/26/22 17:00	1

Lab Sample ID: LCS 280-564497/25
Matrix: Water
Analysis Batch: 564497

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	23.7		mg/L		95	88 - 112		

Lab Sample ID: 280-157931-D-1 MS
Matrix: Water
Analysis Batch: 564497

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	25.0		mg/L		98	88 - 112		

Lab Sample ID: 280-157931-D-1 MSD
Matrix: Water
Analysis Batch: 564497

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	25.8		mg/L		101	88 - 112	3	15

GC/MS VOA

Analysis Batch: 613048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Total/NA	Water	8260C	
280-158000-2	MW7-011922	Total/NA	Water	8260C	
280-158000-3	MW12I-011922	Total/NA	Water	8260C	
280-158000-4	MW13D-011922	Total/NA	Water	8260C	
280-158000-5	MW14-011922	Total/NA	Water	8260C	
280-158000-6	MW6-011922	Total/NA	Water	8260C	
280-158000-7	MW20DD-011922	Total/NA	Water	8260C	
280-158000-8	SW1-011922	Total/NA	Water	8260C	
280-158000-9	SW4-011922	Total/NA	Water	8260C	
280-158000-10	SW6-011922	Total/NA	Water	8260C	
280-158000-11	SW7-011922	Total/NA	Water	8260C	
MB 480-613048/8	Method Blank	Total/NA	Water	8260C	
LCS 480-613048/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 613095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Total/NA	Water	8260C SIM	
280-158000-2	MW7-011922	Total/NA	Water	8260C SIM	
280-158000-3	MW12I-011922	Total/NA	Water	8260C SIM	
280-158000-4	MW13D-011922	Total/NA	Water	8260C SIM	
280-158000-5	MW14-011922	Total/NA	Water	8260C SIM	
280-158000-6	MW6-011922	Total/NA	Water	8260C SIM	
280-158000-7	MW20DD-011922	Total/NA	Water	8260C SIM	
280-158000-8	SW1-011922	Total/NA	Water	8260C SIM	
280-158000-9	SW4-011922	Total/NA	Water	8260C SIM	
280-158000-10	SW6-011922	Total/NA	Water	8260C SIM	
280-158000-11	SW7-011922	Total/NA	Water	8260C SIM	
280-158000-12	TB1	Total/NA	Water	8260C SIM	
MB 480-613095/9	Method Blank	Total/NA	Water	8260C SIM	
LCS 480-613095/6	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 480-613095/7	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 613122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-12	TB1	Total/NA	Water	8260C	
MB 480-613122/8	Method Blank	Total/NA	Water	8260C	
LCS 480-613122/6	Lab Control Sample	Total/NA	Water	8260C	
480-194499-H-3 MS	Matrix Spike	Total/NA	Water	8260C	
480-194499-H-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Metals

Prep Batch: 564316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Dissolved	Water	3005A	
280-158000-2	MW7-011922	Dissolved	Water	3005A	
280-158000-3	MW12I-011922	Dissolved	Water	3005A	
280-158000-4	MW13D-011922	Dissolved	Water	3005A	
280-158000-5	MW14-011922	Dissolved	Water	3005A	
280-158000-6	MW6-011922	Dissolved	Water	3005A	
280-158000-7	MW20DD-011922	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 564316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-8	SW1-011922	Dissolved	Water	3005A	
280-158000-9	SW4-011922	Dissolved	Water	3005A	
280-158000-10	SW6-011922	Dissolved	Water	3005A	
280-158000-11	SW7-011922	Dissolved	Water	3005A	
MB 280-564316/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-564316/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-158000-1 MS	MW5-011922	Dissolved	Water	3005A	
280-158000-1 MSD	MW5-011922	Dissolved	Water	3005A	

Analysis Batch: 564618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Dissolved	Water	6020	564316
280-158000-2	MW7-011922	Dissolved	Water	6020	564316
280-158000-3	MW12I-011922	Dissolved	Water	6020	564316
280-158000-4	MW13D-011922	Dissolved	Water	6020	564316
280-158000-5	MW14-011922	Dissolved	Water	6020	564316
280-158000-6	MW6-011922	Dissolved	Water	6020	564316
280-158000-7	MW20DD-011922	Dissolved	Water	6020	564316
280-158000-8	SW1-011922	Dissolved	Water	6020	564316
280-158000-9	SW4-011922	Dissolved	Water	6020	564316
280-158000-10	SW6-011922	Dissolved	Water	6020	564316
280-158000-11	SW7-011922	Dissolved	Water	6020	564316
MB 280-564316/1-A	Method Blank	Total Recoverable	Water	6020	564316
LCS 280-564316/2-A	Lab Control Sample	Total Recoverable	Water	6020	564316
280-158000-1 MS	MW5-011922	Dissolved	Water	6020	564316
280-158000-1 MSD	MW5-011922	Dissolved	Water	6020	564316

General Chemistry

Analysis Batch: 564426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Total/NA	Water	SM 5310B	
280-158000-2	MW7-011922	Total/NA	Water	SM 5310B	
280-158000-3	MW12I-011922	Total/NA	Water	SM 5310B	
280-158000-4	MW13D-011922	Total/NA	Water	SM 5310B	
280-158000-7	MW20DD-011922	Total/NA	Water	SM 5310B	
280-158000-8	SW1-011922	Total/NA	Water	SM 5310B	
280-158000-9	SW4-011922	Total/NA	Water	SM 5310B	
280-158000-10	SW6-011922	Total/NA	Water	SM 5310B	
280-158000-11	SW7-011922	Total/NA	Water	SM 5310B	
MB 280-564426/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-564426/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-158000-5 MS	MW14-011922	Total/NA	Water	SM 5310B	
280-158000-5 MSD	MW14-011922	Total/NA	Water	SM 5310B	

Analysis Batch: 564497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-5	MW14-011922	Total/NA	Water	SM 5310B	
280-158000-6	MW6-011922	Total/NA	Water	SM 5310B	
MB 280-564497/26	Method Blank	Total/NA	Water	SM 5310B	
MB 280-564497/4	Method Blank	Total/NA	Water	SM 5310B	

General Chemistry (Continued)

Analysis Batch: 564497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-564497/25	Lab Control Sample	Total/NA	Water	SM 5310B	
280-157931-D-1 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-157931-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Analysis Batch: 564693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Total/NA	Water	350.1	
280-158000-2	MW7-011922	Total/NA	Water	350.1	
280-158000-3	MW12I-011922	Total/NA	Water	350.1	
280-158000-4	MW13D-011922	Total/NA	Water	350.1	
280-158000-5	MW14-011922	Total/NA	Water	350.1	
280-158000-6	MW6-011922	Total/NA	Water	350.1	
280-158000-7	MW20DD-011922	Total/NA	Water	350.1	
280-158000-8	SW1-011922	Total/NA	Water	350.1	
280-158000-9	SW4-011922	Total/NA	Water	350.1	
280-158000-10	SW6-011922	Total/NA	Water	350.1	
280-158000-11	SW7-011922	Total/NA	Water	350.1	
MB 280-564693/20	Method Blank	Total/NA	Water	350.1	
LCS 280-564693/18	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-564693/19	Lab Control Sample Dup	Total/NA	Water	350.1	
280-158000-6 MS	MW6-011922	Total/NA	Water	350.1	
280-158000-6 MSD	MW6-011922	Total/NA	Water	350.1	

Analysis Batch: 564713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Total/NA	Water	300.0	
280-158000-2	MW7-011922	Total/NA	Water	300.0	
280-158000-3	MW12I-011922	Total/NA	Water	300.0	
280-158000-4	MW13D-011922	Total/NA	Water	300.0	
280-158000-5	MW14-011922	Total/NA	Water	300.0	
280-158000-6	MW6-011922	Total/NA	Water	300.0	
280-158000-7	MW20DD-011922	Total/NA	Water	300.0	
280-158000-8	SW1-011922	Total/NA	Water	300.0	
280-158000-9	SW4-011922	Total/NA	Water	300.0	
280-158000-10	SW6-011922	Total/NA	Water	300.0	
280-158000-11	SW7-011922	Total/NA	Water	300.0	
MB 280-564713/39	Method Blank	Total/NA	Water	300.0	
MB 280-564713/6	Method Blank	Total/NA	Water	300.0	
LCS 280-564713/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-564713/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-564713/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-564713/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-564713/3	Lab Control Sample	Total/NA	Water	300.0	
280-158000-1 MS	MW5-011922	Total/NA	Water	300.0	
280-158000-1 MSD	MW5-011922	Total/NA	Water	300.0	
280-158000-11 MS	SW7-011922	Total/NA	Water	300.0	
280-158000-11 MSD	SW7-011922	Total/NA	Water	300.0	
280-158000-1 DU	MW5-011922	Total/NA	Water	300.0	
280-158000-11 DU	SW7-011922	Total/NA	Water	300.0	

QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

General Chemistry

Analysis Batch: 564874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-158000-1	MW5-011922	Total/NA	Water	SM 2320B	
280-158000-2	MW7-011922	Total/NA	Water	SM 2320B	
280-158000-3	MW12I-011922	Total/NA	Water	SM 2320B	
280-158000-4	MW13D-011922	Total/NA	Water	SM 2320B	
280-158000-5	MW14-011922	Total/NA	Water	SM 2320B	
280-158000-6	MW6-011922	Total/NA	Water	SM 2320B	
280-158000-7	MW20DD-011922	Total/NA	Water	SM 2320B	
280-158000-8	SW1-011922	Total/NA	Water	SM 2320B	
280-158000-9	SW4-011922	Total/NA	Water	SM 2320B	
280-158000-10	SW6-011922	Total/NA	Water	SM 2320B	
280-158000-11	SW7-011922	Total/NA	Water	SM 2320B	
MB 280-564874/110	Method Blank	Total/NA	Water	SM 2320B	
MB 280-564874/84	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-564874/109	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-564874/83	Lab Control Sample	Total/NA	Water	SM 2320B	
280-157933-C-1 DU	Duplicate	Total/NA	Water	SM 2320B	
280-158000-8 DU	SW1-011922	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Client Sample ID: MW5-011922

Lab Sample ID: 280-158000-1

Date Collected: 01/19/22 10:05

Matrix: Water

Date Received: 01/22/22 10:40

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	613048	01/27/22 19:40	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/27/22 21:25	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 01:15	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 15:13	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 13:14	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:20	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 04:30	RAF	TAL DEN

Client Sample ID: MW7-011922

Lab Sample ID: 280-158000-2

Date Collected: 01/19/22 08:25

Matrix: Water

Date Received: 01/22/22 10:40

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	613048	01/27/22 20:03	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/27/22 21:53	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 01:34	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 16:13	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 13:16	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:36	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 04:47	RAF	TAL DEN

Client Sample ID: MW12I-011922

Lab Sample ID: 280-158000-3

Date Collected: 01/19/22 11:35

Matrix: Water

Date Received: 01/22/22 10:40

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	613048	01/27/22 20:26	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/27/22 22:22	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 01:38	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 16:28	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 13:54	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:14	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 05:05	RAF	TAL DEN

Client Sample ID: MW13D-011922

Lab Sample ID: 280-158000-4

Date Collected: 01/19/22 12:55

Matrix: Water

Date Received: 01/22/22 10:40

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	613048	01/27/22 20:50	CRL	TAL BUF

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Client Sample ID: MW13D-011922
Date Collected: 01/19/22 12:55
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-4
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 SIM		1	25 mL	25 mL	613095	01/27/22 22:50	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 01:49	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 16:43	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 13:20	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:42	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 05:20	RAF	TAL DEN

Client Sample ID: MW14-011922
Date Collected: 01/19/22 14:10
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	613048	01/27/22 21:13	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/27/22 23:18	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 01:53	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 17:29	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 13:18	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 06:21	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564497	01/27/22 01:48	ABW	TAL DEN

Client Sample ID: MW6-011922
Date Collected: 01/19/22 15:50
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	613048	01/27/22 21:36	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/27/22 23:45	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 01:57	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 17:44	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 13:56	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 04:58	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564497	01/27/22 02:02	ABW	TAL DEN

Client Sample ID: MW20DD-011922
Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-7
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	8260C		1	5 mL	5 mL	613048	01/27/22 21:58	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/28/22 00:13	WJD	TAL BUF

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Client Sample ID: MW20DD-011922

Lab Sample ID: 280-158000-7
Date Collected: 01/19/22 00:00
Matrix: Water
Date Received: 01/22/22 10:40

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	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 02:00	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 17:59	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 14:02	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:04	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 07:09	RAF	TAL DEN

Client Sample ID: SW1-011922

Lab Sample ID: 280-158000-8
Date Collected: 01/19/22 11:20
Matrix: Water
Date Received: 01/22/22 10:40

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	613048	01/27/22 22:21	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/28/22 00:42	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 02:04	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 18:14	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 14:04	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 06:10	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 07:28	RAF	TAL DEN

Client Sample ID: SW4-011922

Lab Sample ID: 280-158000-9
Date Collected: 01/19/22 12:15
Matrix: Water
Date Received: 01/22/22 10:40

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	613048	01/27/22 22:45	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/28/22 01:10	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 02:08	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 18:29	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 14:06	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:31	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 07:42	RAF	TAL DEN

Client Sample ID: SW6-011922

Lab Sample ID: 280-158000-10
Date Collected: 01/19/22 12:45
Matrix: Water
Date Received: 01/22/22 10:40

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	613048	01/27/22 23:08	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/28/22 01:38	WJD	TAL BUF

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-158000-1

Client Sample ID: SW6-011922

Date Collected: 01/19/22 12:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-10

Matrix: Water

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	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 02:12	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 18:44	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 14:08	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:25	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 08:01	RAF	TAL DEN

Client Sample ID: SW7-011922

Date Collected: 01/19/22 13:45
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	613048	01/27/22 23:31	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/28/22 02:06	WJD	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	564316	01/26/22 13:37	PNS	TAL DEN
Dissolved	Analysis	6020		1			564618	01/28/22 02:15	LMT	TAL DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	564713	01/29/22 19:44	CJ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	564693	01/28/22 14:10	RKD	TAL DEN
Total/NA	Analysis	SM 2320B		1			564874	01/29/22 05:09	KEG	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	564426	01/26/22 08:20	RAF	TAL DEN

Client Sample ID: TB1

Date Collected: 01/19/22 00:00
Date Received: 01/22/22 10:40

Lab Sample ID: 280-158000-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	613122	01/28/22 12:03	WJD	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	613095	01/28/22 02:34	WJD	TAL BUF

Laboratory References:

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200
TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Analytical Resources, LLC
Analytical Chemists and Consultants

15 February 2022

Betsy Sara
Eurofins - Test America - Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Hansville (28006013 - 1Q Sampling)

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)
22A0461	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

4611 S. 134th Place, Suite 100 • Tukwila, WA 98168 • Ph: (206) 695-6200 • Fax: (206) 695-6202

22A0461

ARI

Eurofins TestAmerica, 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	Sampler: DCB/CB	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-23414-6845.1
Client Contact: Meilani Lanier-Kamaha'o	Phone: 206-413-5408	E-Mail: Betsy.Sara@Eurofinset.com		Page: 1/1
Company: Aspect Consulting, LLC				Job #: 160423
Address: 350 Madison Ave N	Due Date Requested:			
City: Bainbridge Island	TAT Requested (days): std			
State, Zip: WA, 98110				
Phone: 206-413-5408	PO #: Purchase Order not required			
Email: mlkamahao@aspectconsulting.com	WO #:			
Project Name: Hansville Landfill	Project #:skip sites/events 28006013 - 1Q Sampling			
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)	8260C SIM - Vinyl Chloride (TA Buffalo)	Dissolved Metals	Ammonia/TOC	Alks/Cl/SO4	Ortho-phosphate (field filtered) - Direct sub to ARI	Dissolved Arsenice (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)	Nitrate/Nitrite (IC) - Direct sub to ARI	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	S	N	N	D	A	N		
MW-5-011922	1/19/22	1005	G	W							X	X		X		
MW-7-011922		0825														
MW-12I-011922		1135														Diss As,NO3,NO2,o-phos subbed direct to ARI
MW-13D-011922		1255														
MW-14-011922		1410														
MW-6-011922		1550														
MW-20DD-011922		—														
SW-1-011922		1120														
SW-4-011922		1215														
SW-6-011922		1245														
SW-7-011922	↓	1345	↓	↓							↓	↓		↓		

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: Dyla Brown	Date/Time: 1/20/22	Company: Aspect	Received by:	ARI	Date/Time: 1/20/22 1300	Company: 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:

Page 71 of 109

2/16/2022

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5-011922	22A0461-01	Water	19-Jan-2022 10:05	20-Jan-2022 13:00
MW-7-011922	22A0461-02	Water	19-Jan-2022 08:25	20-Jan-2022 13:00
MW-12I-011922	22A0461-03	Water	19-Jan-2022 11:35	20-Jan-2022 13:00
MW-13D-011922	22A0461-04	Water	19-Jan-2022 12:55	20-Jan-2022 13:00
MW-14-011922	22A0461-05	Water	19-Jan-2022 14:10	20-Jan-2022 13:00
MW-6-011922	22A0461-06	Water	19-Jan-2022 15:50	20-Jan-2022 13:00
MW-20DD-011922	22A0461-07	Water	19-Jan-2022 00:00	20-Jan-2022 13:00
SW-1-011922	22A0461-08	Water	19-Jan-2022 11:20	20-Jan-2022 13:00
SW-4-011922	22A0461-09	Water	19-Jan-2022 12:15	20-Jan-2022 13:00
SW-6-011922	22A0461-10	Water	19-Jan-2022 12:45	20-Jan-2022 13:00
SW-7-011922	22A0461-11	Water	19-Jan-2022 13:45	20-Jan-2022 13:00

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Hansville
Work Order: 22A0461

Sample receipt

Samples as listed on the preceding page were received 20-Jan-2022 13:00 under ARI work order 22A0461. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Dissolved Metals - EPA Method 200.8

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

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

22A0461

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: Hansville **Project Number:** Hansville

Preservation Confirmation

Container ID	Container Type	pH	
22A0461-01 A	Miscellaneous container, 1:1 HN03 (FF)	L2	Pass (P)
22A0461-01 B	Miscellaneous Container		
22A0461-01 C	Miscellaneous Container		
22A0461-02 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-02 B	Miscellaneous Container		
22A0461-02 C	Miscellaneous Container		
22A0461-03 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-03 B	Miscellaneous Container		
22A0461-03 C	Miscellaneous Container		
22A0461-04 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-04 B	Miscellaneous Container		
22A0461-04 C	Miscellaneous Container		
22A0461-05 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-05 B	Miscellaneous Container		
22A0461-05 C	Miscellaneous Container		
22A0461-06 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-06 B	Miscellaneous Container		
22A0461-06 C	Miscellaneous Container		
22A0461-07 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-07 B	Miscellaneous Container		
22A0461-07 C	Miscellaneous Container		
22A0461-08 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-08 B	Miscellaneous Container		
22A0461-08 C	Miscellaneous Container		
22A0461-09 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-09 B	Miscellaneous Container		
22A0461-09 C	Miscellaneous Container		
22A0461-10 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-10 B	Miscellaneous Container		
22A0461-10 C	Miscellaneous Container		
22A0461-11 A	Miscellaneous container, 1:1 HN03 (FF)	L2	P
22A0461-11 B	Miscellaneous Container		
22A0461-11 C	Miscellaneous Container		

Reviewed By Date

WORK ORDER

22A0461

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: Hansville | **Project Number:** Hansville

RV
Preservation Confirmed By

1/20/22
Date

Reviewed By

Date

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Aspect Project Name: Hansville Landfill

COC No(s): ____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other: ____

Assigned ARI Job No: 22A0461 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) (recommended 2.0-6.0 °C for chemistry)

1.5

Time 1300

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: D00 3009708

Cooler Accepted by: RP Date: 1/20/22 Time: 1300

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: ____		
Was sufficient ice used (if appropriate)?	NA	(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: RP Date: 1/20/22 Time: 1445 Labels checked by: ____

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: ____ Date: ____

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-5-011922

22A0461-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 10:05

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/27/2022 23:01

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-01 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	1.80	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-5-011922

22A0461-01 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 10:05

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 18:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-01 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	3.01	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	0.10	mg-P/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-7-011922

22A0461-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 08:25

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:01

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-02 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	1.24	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-7-011922

22A0461-02 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 08:25

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 19:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-02 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.157	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-12I-011922

22A0461-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 11:35

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:06

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-03 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	2.42	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-12I-011922

22A0461-03 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 11:35

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 19:37

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-03 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-13D-011922

22A0461-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 12:55

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:11

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-04 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	5.12	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-13D-011922

22A0461-04 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 12:55

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 19:57

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-04 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-14-011922

22A0461-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 14:10

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-05 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	12.5	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-14-011922

22A0461-05 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 14:10

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 20:57

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-05 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-6-011922

22A0461-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 15:50

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:22

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-06 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	1.89	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-6-011922

22A0461-06 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 15:50

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 21:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-06 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	3.46	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	0.303	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-20DD-011922

22A0461-07 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 00:00

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:27

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-07 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	12.5	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

MW-20DD-011922

22A0461-07 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 00:00

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 21:37

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-07 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.944	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-1-011922

22A0461-08 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 11:20

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:32

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-08 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	1.63	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-1-011922

22A0461-08 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 11:20

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 21:57

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-08 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	1.74	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-4-011922

22A0461-09 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 12:15

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:37

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-09 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	1.83	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-4-011922

22A0461-09 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 12:15

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 22:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-09 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.854	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-6-011922

22A0461-10 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 12:45

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:43

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-10 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	2.35	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-6-011922

22A0461-10 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 12:45

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 22:37

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-10 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-7-011922

22A0461-11 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/19/2022 13:45

Instrument: ICPMS1 Analyst: MCB — Analyzed: 01/28/2022 00:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 22A0461-11 A 02

Preparation Batch: BKA0611 — Sample Size: 25 mL

Prepared: 01/27/2022 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	1.13	ug/L	

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

SW-7-011922

22A0461-11 (Water)

Wet Chemistry

Method: EPA 300.0 — Sampled: 01/19/2022 13:45

Instrument: IC930 Analyst: CKI — Analyzed: 01/20/2022 22:57

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem; Preparation Batch: BKA0478; Prepared: 01/20/2022; Sample Size: 10 mL; Final Volume: 10 mL — Extract ID: 22A0461-11 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	1.21	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrite-N	14797-65-0	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.10	0.10	ND	mg-P/L	U

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BKA0611 - REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKA0611-BLK1)						Prepared: 27-Jan-2022 Analyzed: 27-Jan-2022 22:50						
Arsenic, Dissolved	75a	ND	0.0373	0.200	ug/L							U
LCS (BKA0611-BS1)						Prepared: 27-Jan-2022 Analyzed: 27-Jan-2022 22:55						
Arsenic, Dissolved	75a	24.1	0.0373	0.200	ug/L	25.0		96.5	80-120			

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKA0478 - No Prep Wet Chem

Instrument: IC930 Analyst: CKI

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKA0478-BLK1)				Prepared: 20-Jan-2022 Analyzed: 20-Jan-2022 17:37							
Nitrate-N	ND	0.100	0.100	mg/L							U
Nitrite-N	ND	0.100	0.100	mg/L							U
Orthophosphorus	ND	0.10	0.10	mg-P/L							U
LCS (BKA0478-BS1)				Prepared: 20-Jan-2022 Analyzed: 20-Jan-2022 17:57							
Nitrate-N	5.26	0.100	0.100	mg/L	5.00		105	90-110			
Nitrite-N	5.26	0.100	0.100	mg/L	5.00		105	90-110			
Orthophosphorus	5.07	0.10	0.10	mg-P/L	5.00		101	90-110			
Duplicate (BKA0478-DUP1)		**Source: 22A0461-01**		Prepared: 20-Jan-2022 Analyzed: 20-Jan-2022 18:37							
Nitrate-N	3.01	0.100	0.100	mg/L		3.01			0.13	20	
Nitrite-N	ND	0.100	0.100	mg/L		ND					U
Orthophosphorus	ND	0.10	0.10	mg-P/L		0.10					U
Matrix Spike (BKA0478-MS1)		**Source: 22A0461-01**		Prepared: 20-Jan-2022 Analyzed: 20-Jan-2022 18:57							
Nitrate-N	5.10	0.100	0.100	mg/L	2.00	3.01	104	75-125			
Nitrite-N	1.96	0.100	0.100	mg/L	2.00	ND	97.9	75-125			
Orthophosphorus	1.62	0.10	0.10	mg-P/L	2.02	0.10	75.1	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 UCT-KED in Water	
Arsenic-75a	NELAP,WADOE,WA-DW,DoD-ELAP
EPA 300.0 in Water	
Nitrate-N	DoD-ELAP,WADOE,WA-DW,NELAP
Nitrite-N	DoD-ELAP,WADOE,WA-DW,NELAP
Orthophosphorus	DoD-ELAP,WADOE,WA-DW,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022

Eurofins - Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: 28006013 - 1Q Sampling	**Reported:**
Arvada CO, 80002	Project Manager: Betsy Sara	15-Feb-2022 16:56

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 TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

2/16/2022

Client Information	Sampler: DCB/CB	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-23414-6845.1
Client Contact: Meilani Lanier Kamaha'o	Phone: 206-413-5408	E-Mail: Betsy.Sara@Eurofinset.com		Page: 1/2
Company: Aspect Consulting, LLC				Job #: 160423
Address: 350 Madison Ave N	Due Date Requested:			
City: Bainbridge Island	TAT Requested (days): std.			
State, Zip: WA, 98110				
Phone: 206-413-5408	PO#: Purchase Order not required			
Email: mkamahao@aspectconsulting.com	WO #:			
Project Name: Hansville Landfill	Project #:skip sites/events 28006013 - 1Q Sampling			
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)	8260C SIM - Vinyl Chloride (TA Buffalo)	Dissolved Metals	Ammonia/TOC	Alks/Cl/SO4	Ortho-phosphate (field filtered) - Direct sub to ARI	Dissolved Arsenice (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)	Nitrate/Nitrite (IC) - Direct sub to ARI	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	S	N	N	D	A	N		
MW-5-011922	1/19/22	1005	G	W			X	X	X	X			X			
MW-7-011922		0825														
MW-12I-011922		1135														Diss As,NO3,NO2,o-phos subbed direct to ARI
MW-13D-011922		1255														
MW-14-011922		1410														
MW-6-011922		1550														
MW-20DD-011922		—														
SW-1-011922		1120														
SW-4-011922		1215														
SW-6-011922		1245														
SW-7-011922		1345														

280-158000 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: Dyl Bun	Date/Time: 1/20/22	Company: Aspect	Received by:	Date/Time: 1/22/22 1040	Company: EMA Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.7/1.3 IR13 CF02

Eurofins TestAmerica, 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	Sampler: OCB/CB	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-23414-6845.1
Client Contact: Meilani Lanier Kamaha'o	Phone: 206-413-5408	E-Mail: Betsy.Sara@Eurofinset.com		Page: 2/2
Company: Aspect Consulting, LLC		**Analysis Requested**		Job #: 160423
Address: 350 Madison Ave N	**Due Date Requested:**			
City: Bainbridge Island	**TAT Requested (days):**			
State, Zip: WA, 98110				
Phone: 206-413-5408	PO #: Purchase Order not required			
Email: mlkamahao@aspectconsulting.com	WO #:			
Project Name: Hansville Landfill	Project #:skip sites/events 28006013 - 1Q Sampling			
Site: Washington	SSOW#:			

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - 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)	8260C SIM - Vinyl Chloride (TA Buffalo)	Dissolved Metals	Ammonia/TOC	Alks/Cl/SO4	Ortho-phosphate (field filtered) - Direct sub to ARI	Dissolved Arsenice (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)	Nitrate/Nitrite (IC) - Direct sub to ARI	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	A	D	S	N	N	D	A	N	X	
Trip Blank	—	—	—	W									X			
																Diss As,NO3,NO2,o-phos subbed direct to ARI

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: Dylan Barr	Date/Time: 1/20/22	Company: Aspect	Received by: [signature]	Date/Time: 1/20/2022 1040	Company: ETA 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:

TO EUROFINS
EUROFINS
4955 YARROW ST
350
ARVADA CO 80002
(303) 736-0100
THU
P01

REF:
DEPT:

FedEx Express

E

4221022010502uv

(US)

97-435 RRDB EXP 06/22
56DJ4/F2B9/FE4A

FedEx M-1578
119686 3/00 RRD

lbs.

HEAVY

FRI – 21 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 0667 8165 7538 3409

XA LAAA

80002
CO-US DEN

TO EUROFINS
EUROFINS
4955 YARROW ST
350
ARVADA CO 80002
(303) 736-0100

REF:
DEPT:

FedEx Express

E

J221022010502uv

FedEx M-1578
119686 3/00 RRD

lbs.

HEAVY

FRI – 21 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 0667 8165 7538 3394

XA LAAA

80002
CO-US DEN

280-158000 Waybill

Eurofins TestAmerica, 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 (Sub Contract Lab)	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-602005.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Betsy.Sara@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Washington		Job #: 280-158000-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 2/3/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Hansville Landfill	Project #: 28006013			
Site: Hansville	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - 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_SIM/5030C (MOD) Local Method	8260C/5030C (MOD) Appendix II Volatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW5-011922 (280-158000-1)	1/19/22	10:05 Pacific		Water			X	X	6	
MW7-011922 (280-158000-2)	1/19/22	08:25 Pacific		Water			X	X	6	
MW12I-011922 (280-158000-3)	1/19/22	11:35 Pacific		Water			X	X	6	
MW13D-011922 (280-158000-4)	1/19/22	12:55 Pacific		Water			X	X	6	
MW14-011922 (280-158000-5)	1/19/22	14:10 Pacific		Water			X	X	6	
MW6-011922 (280-158000-6)	1/19/22	15:50 Pacific		Water			X	X	6	
MW20DD-011922 (280-158000-7)	1/19/22	Pacific		Water			X	X	6	
SW1-011922 (280-158000-8)	1/19/22	11:20 Pacific		Water			X	X	6	
SW4-011922 (280-158000-9)	1/19/22	12:15 Pacific		Water			X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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: 1/25/22 1330	Company	Received by:	Date/Time: 1-27-22 1000	Company TAB	
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 ICE

Ver: 06/08/2021

2/16/2022

Eurofins TestAmerica, 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 (Sub Contract Lab)	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-602005.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Betsy.Sara@Eurofinset.com	State of Origin: Washington	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Washington		Job #: 280-158000-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 2/3/2022			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Hansville Landfill	Project #: 28006013			
Site: Hansville	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - 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_SIM/5030C (MOD) Local Method	8260C/5030C (MOD) Appendix II Volatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SW6-011922 (280-158000-10)	1/19/22	12:45 Pacific		Water			X	X	6	
SW7-011922 (280-158000-11)	1/19/22	13:45 Pacific		Water			X	X	6	
TB1 (280-158000-12)	1/19/22	Pacific		Water			X	X	12	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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: 1/25/22 1330	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 280-158000-1

Login Number: 158000
List Number: 1
Creator: Dubicki, Adam L

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	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: Aspect Consulting

Job Number: 280-158000-1

Login Number: 158000
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 01/27/22 12:07 PM

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	2.1 ICE IR GUN #1
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.	True	