



May 31, 2024

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

Re: First Quarter 2024 Environmental Monitoring Report - FINAL
Hansville Landfill, Kitsap County, Washington
Project No. AS160423-005-05.1

Dear Alexis:

This quarterly report summarizes the results of environmental monitoring conducted at the Hansville Landfill (Site) during the first quarter of 2024, and was prepared by Aspect Consulting, (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 datasets 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. These documents were prepared and approved by the Washington State Department of Ecology (Ecology) as part of the Site-specific cleanup actions under the Model Toxics Control Act (MTCA) cleanup regulations.

Conditions monitored at the Site during the first quarter of 2024 were consistent with historical trends showing improvements in protection of human health and the environment, as reported in the last annual report (Aspect, 2024). This report is organized consistent with quarterly reporting topics listed in the Compliance Monitoring Plan (SCS, 2011) and includes the following:

- 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 2024

Site activities during the reporting period included environmental monitoring of landfill gas, groundwater, and surface water. Documentation of the quarterly activities is presented in 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 2024 is provided below:

- On January 17, 2024, Aspect completed groundwater and surface water monitoring.
- On January 17, 2024, Aspect completed the monthly performance monitoring of the blower system and condensate management system. Aspect also notified the County that the condensate tank held approximately 1,800 gallons and requested condensate disposal.
- On January 23, 2024, the County emptied the condensate tank and sump.
- On January 24, 2024, Aspect checked the western condensate sump level and found the sump had been completely emptied. To restore the landfill gas collection system performance, Aspect added approximately 100 gallons of clean water to the sump to cover the bottom of the system vacuum pipe.
- On February 13, 2024, Aspect conducted monthly performance monitoring of the landfill gas blower system and condensate management system.
- On March 20, 2024, Aspect conducted vegetation management around compliance monitoring probes in preparation for the first quarter landfill gas compliance monitoring event.
- On March 28, 2024, Aspect conducted landfill gas compliance monitoring which included measuring landfill gas concentrations at compliance monitoring probes, across the extraction wellfield, and at the blower.

Deviations from the Compliance Monitoring Plan

There were no deviations from the Compliance Monitoring Plan (SCS, 2011) during the first quarter 2024 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 17, February 13, and March 28, 2024. Aspect monitored landfill gas concentrations at the compliance monitoring probes and the extraction wellfield on March 28, 2024.

Landfill gas conditions 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 (CH₄), carbon dioxide (CO₂), oxygen (O₂), and balance gas (Balance) concentrations.
- Pressure measurements included the system pressure representing the vacuum available at the wellhead, and the static pressure representing the equilibrium downhole pressure.
- Temperature measurements are made at the wellhead except near the blower.
- Collection system flow-rate measurements were obtained at selected 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.

Landfill Gas System Performance

During the compliance monitoring event on March 28, 2024, conditions observed at the blower remained within the normal range. Methane and carbon dioxide concentrations at the blower inlet were approximately 3.1 percent by volume and 15 percent by volume, respectively. The oxygen concentration was approximately 3 percent by volume. Flow rates were approximately 116 standard cubic feet per minute (scfm) during the first quarter. Both blowers for the landfill gas collection system have been in operation since January 2023, resulting in greater landfill gas collection rates. Wellfield optimization will continue to focus on maximizing methane and carbon dioxide collection rates.

At the beginning of the first quarter of 2024, the 2,000-gallon condensate storage tank contained approximately 1,800 gallons. The County used a vacuum truck to remove and dispose of collected condensate in both the condensate storage tank and the western sump on January 23, 2024.

Biofilter Bed Treatment Performance

The biofilter bed (biobed) was installed in early March 8, 2023, to replace the existing flare system. Based on surface methane concentrations measurements made during 2023, the biobed appears to be effectively reducing greenhouse gas emissions and controlling odor.

Surface methane concentrations were generally less than the design criterion of 1.25 percent methane (25 percent of the lower explosive limit), with the following exceptions. Methane was detected at concentrations of up to 3.1 percent by volume at four small depressions measuring less

than 3 by 3 inches wide and less than 3 inches deep. These conditions were observed when the sample tubing was held 1 inch above the depressions for 20 to 30 seconds. Biobed surface methane concentrations approaching the blower inlet concentrations may indicate preferential discharge pathways that could be addressed by roto-tilling the biofilter media or adding additional biofilter media.

Explosive Gas Control

Methane was not detected in any of the compliance gas probes during the compliance monitoring event on March 28, 2024. 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 4.3 percent by volume, reflecting natural conditions. Aspect observed an animal bore hole under monitoring probe GP-6.

Summary of Groundwater and Surface Water Conditions

This section addresses groundwater and surface water conditions based on the monitoring event on January 17, 2024. Samples were collected from six groundwater monitoring wells and from four surface water monitoring locations (Figure B-1) for laboratory analysis.

Groundwater Flow

Groundwater flow conditions during the first quarter of 2024 were consistent with those observed during previous monitoring events. Groundwater surface elevations were calculated using water levels measured on January 17, 2024 (Table B-1). Groundwater elevations ranged from 238.2 feet North American Vertical Datum of 1988 (NAVD88) in MW-12I to 266.4 feet NAVD88 in the upgradient, background monitoring well MW-5. The direction of groundwater flow at the Site was west across the landfill then shifted southwest, consistent with historical observations. Groundwater gradients ranged from 0.0074 feet over feet (feet/feet) in the upgradient areas, to 0.014 feet/feet farther 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 2024 were consistent with historical ranges and trends. Groundwater quality results presented in Table B-2 include 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-13 (0.00505 mg/L) and MW-14 (0.0127 mg/L). Dissolved manganese concentrations were below the Site-specific cleanup level of 2.24 mg/L and below the MTCA Method B non-cancer formula value¹ of 0.75 mg/L at all wells except MW-14 (1.2 mg/L). Vinyl chloride concentrations in groundwater were below the

¹ As noted in the Agency Review Draft Remedial Action Status Report (Aspect, 2022), the MTCA Method B non-cancer formula value for manganese in groundwater was revised downwards to a concentration below the Site-specific cleanup level. This new state regulation does not affect the Site-specific restoration time frames. This new value will be included in reporting going forward to provide context. The Hansville Site Cleanup Levels were established by the 2011 CAP and Compliance Monitoring Plan and remain the basis for measuring remedial action performance.

Site-specific groundwater cleanup level of 0.025 micrograms per liter ($\mu\text{g/L}$) at all monitoring wells except MW-6 (0.053 $\mu\text{g/L}$) and MW-12I (0.062 $\mu\text{g/L}$). Consistent with previous years, cis-1,2-dichloroethene (cDCE) was detected in MW-14 at a low concentration (1.6 $\mu\text{g/L}$) that has been decreasing over time.

Surface water quality results from the first quarter 2024 are presented in Table B-3 and include field parameters, conventional parameters, dissolved metals, and volatile organic compounds. During the reporting period, surface water concentrations of dissolved arsenic, dissolved manganese, and vinyl chloride were below the respective Site-specific cleanup levels.

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 consistently been less than the cleanup level of 0.005 mg/L at MW-5 (background well), MW-6, MW-7, and MW-12I. Dissolved arsenic concentrations at MW-13D were historically below the cleanup level until 2019. Dissolved arsenic concentrations at MW-14 have historically exceeded the Site-specific cleanup level and have been decreasing over time, although at a slower rate since 2020.

Figure C-2 shows vinyl chloride concentrations in groundwater have been less than the Site-specific cleanup level of 0.025 $\mu\text{g/L}$ 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. In the first quarter 2024, the concentration of vinyl chloride at MW-12I was 0.062 $\mu\text{g/L}$, above the Site-specific cleanup level. Concentrations are expected to fluctuate but continue to decrease as indicated by the trends (discussed below). The vinyl chloride concentration at MW-14 during the first quarter of 2024 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 0 to 7 years. Concentrations of dissolved arsenic at MW-13D peaked slightly above the cleanup level in 2020 and now appear to be decreasing slowly over time. For context, a linear trendline is used to project dissolved arsenic concentrations at MW-13D, which remain below the Puget Sound regional background of 8 $\mu\text{g/L}$ (Ecology, 2016; Ecology, 2022) for more than 10 years. The projected restoration time frame for arsenic in groundwater at MW-14 is more than 10 years. In January 2023, the landfill gas collection system flow rate was increased by operating both blowers with the intention of achieving 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 were slightly below the Site-specific cleanup levels during this monitoring period and remain below the regional natural background value provided by Ecology (Ecology, 2016; Ecology, 2022) as shown on 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.² 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 (ver. 10) 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.

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.

² 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.

References

- Aspect Consulting, LLC (Aspect), 2020, 2019 Annual Environmental Monitoring Report, Hansville Landfill, Kitsap County, Washington, February 28, 2020.
- Aspect Consulting, LLC (Aspect), 2022, Agency Review Draft Remedial Action Status Report, Hansville Landfill Site, Kitsap County, Washington, June 28, 2022.
- Aspect Consulting, (Aspect), 2024, Annual Environmental Monitoring Report, Hansville Landfill, Kitsap County, Washington, February 29, 2024.
- 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.
- Washington State Department of Ecology (Ecology), 2022, Natural Background Groundwater Arsenic Concentrations in Washington State, Ecology Publication No. 14-09-044, Draft for Public Comment published July 2021; Revised January 2022.

Limitations

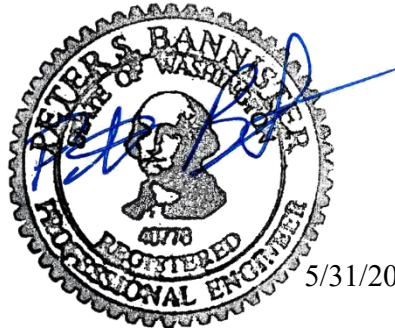
Work for this project was performed for Kitsap County Public Works (Client), and this letter was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This letter does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

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Sincerely,
Aspect consulting, LLC



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5/31/2024

Peter S. Bannister, PE
Principal Engineer
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Attachments: Attachment A – Landfill Gas Data
 Attachment B – Water Quality Results
 Attachment C – Groundwater Statistics and Time-Series Plots
 Attachment D – Field Forms and Laboratory Reports

cc: Steve Brown, Kitsap County Public Health Department
 Jakob Hughes, Kitsap County Public Health Department
 Cris Matthews, Washington State Department of Ecology
 Joshua Carter, Julie Raymond, and Roma Call, Port Gamble S’Klallam Tribe, Kitsap Public Health District

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ATTACHMENT A

Landfill Gas Data

Table A-1. Landfill Gas Data, First Quarter, 2024

Project No. 160423, Hansville Landfill, Hansville, Washington

Location	Map ID	Date/Time	Methane CH ₄ (% by vol)	Carbon Dioxide CO ₂ (% by vol)	Oxygen O ₂ (% by vol)	Balance Bal (% by vol)	System Pressure ("H ₂ O)	Static Pressure ("H ₂ O)	Wellhead Temperature (°F)	Flow Rate (SCFM)
Blower Inlet		3/28/24 8:30	3.1	15	3	78.9	-7.38	-6.37	49.3	116
Blower Outlet		3/28/24 8:35	2.8	14.7	3	79.5	0.12	N/A	76.7	N/A
Extraction Well 001	R-1	3/28/24 13:08	3	15.7	0.1	81.2	-1.66	-0.72	55.3	0.6
Extraction Well 002	R-2	3/28/24 13:19	1.3	13.5	5.9	79.3	-1.71	N/A	73.7	N/A
Extraction Well 003	R-3	3/28/24 13:54	5.2	16.8	0	78	-4.97	-1.89	47.9	4
Extraction Well 004	R-4	3/28/24 14:25	2.8	17.3	1.3	78.6	-6.2	-2.06	65.3	3.5
Extraction Well 005	R-5	3/28/24 14:52	2.6	18.6	0.6	78.2	-4.56	-1.33	72.3	3.3
Extraction Well 006	R-6	3/28/24 15:05	2.4	10	10.7	76.9	-6.26	-2.16	85.4	3.5
Extraction Well 007	R-7	3/28/24 15:10	0	15.3	3.2	81.5	-4.56	-1.41	64.4	3.5
Extraction Well 008	R-8	3/28/24 12:42	3.5	18.4	0	78.1	-3.06	-1.24	58.4	2.7
Extraction Well 009	R-9	3/28/24 12:53	1.2	13	5.6	80.2	-2.78	N/A	104.2	N/A
Extraction Well 010	R-10	3/28/24 13:01	4.5	10.8	5.6	79.1	-1.77	-1.17	60.7	1.6
Extraction Well 011	R-11	3/28/24 13:32	2.4	13.7	0	83.9	-1.8	-1.13	54.7	1.8
Extraction Well 012	R-12	3/28/24 14:00	5.6	8.6	0	85.8	-2.78	-1.55	45.1	1.3
Extraction Well 013	R-13	3/28/24 15:14	2.3	14.8	2.5	80.4	-4.97	N/A	69.2	N/A
Trench Collector TD-1	TD-1	3/28/24 12:33	1.2	19.5	0.1	79.2	-0.08	0	53.8	0
Trench Collector TR-1	TR-1	3/28/24 14:58	0.2	10.7	9.1	80	-4.71	-1.25	68.6	3.3
Trench Collector TR-2	TR-2	3/28/24 12:48	4.2	16.7	0.8	78.3	-1.7	N/A	54.4	N/A
Trench Collector TR-3	TR-3	3/28/24 13:13	3.3	16.2	1.4	79.1	-1.53	N/A	57.7	N/A
Trench Collector TR-4	TR-4	3/28/24 14:34	0.9	18.1	0.4	80.6	-5.09	-1.27	57.2	3.3
Trench Collector TR-5	TR-5	3/28/24 14:11	3.6	15.5	2.8	78.1	-1.42	N/A	48.5	N/A
Trench Collector TR-6	TR-6	3/28/24 14:04	5.3	15.2	1.8	77.7	-1.61	N/A	49.7	N/A
Trench Collector TR-7	TR-7	3/28/24 14:17	7.1	14.4	1.2	77.3	-4.33	-1.46	46.8	3.5
Gas Probe 1	GP-1	3/23/23 8:46	0	1.5	19.4	79.1	0.01	N/A	N/A	N/A
Gas Probe 2 Shallow	GP-2S	3/23/23 9:12	0	0.6	20.7	79.1	-0.01	N/A	N/A	N/A
Gas Probe 2 Middle	GP-2M	3/23/23 9:25	0	1.3	19.3	78.7	0.11	N/A	N/A	N/A
Gas Probe 2 Deep	GP-2D	3/23/23 9:38	0	1.6	18.3	79.4	0.19	N/A	N/A	N/A
Gas Probe 3	GP-3	3/23/23 10:06	0	1.4	20.4	80.1	0.02	N/A	N/A	N/A
Gas Probe 4	GP-4	3/23/23 10:32	0	1.6	20.3	78.2	0.02	N/A	N/A	N/A
Gas Probe 5	GP-5	3/23/23 11:10	0	0.1	21.3	78.1	0	N/A	N/A	N/A
Gas Probe 6	GP-6	3/23/23 11:24	0	4.4	15.2	78.6	-0.03	N/A	N/A	N/A
Gas Probe 7	GP-7	3/23/23 10:49	0	3	18.9	80.4	-0.01	N/A	N/A	N/A

Notes

System pressure represents the vacuum available at the wellhead. Static pressure represents the equilibrium downhole pressure.

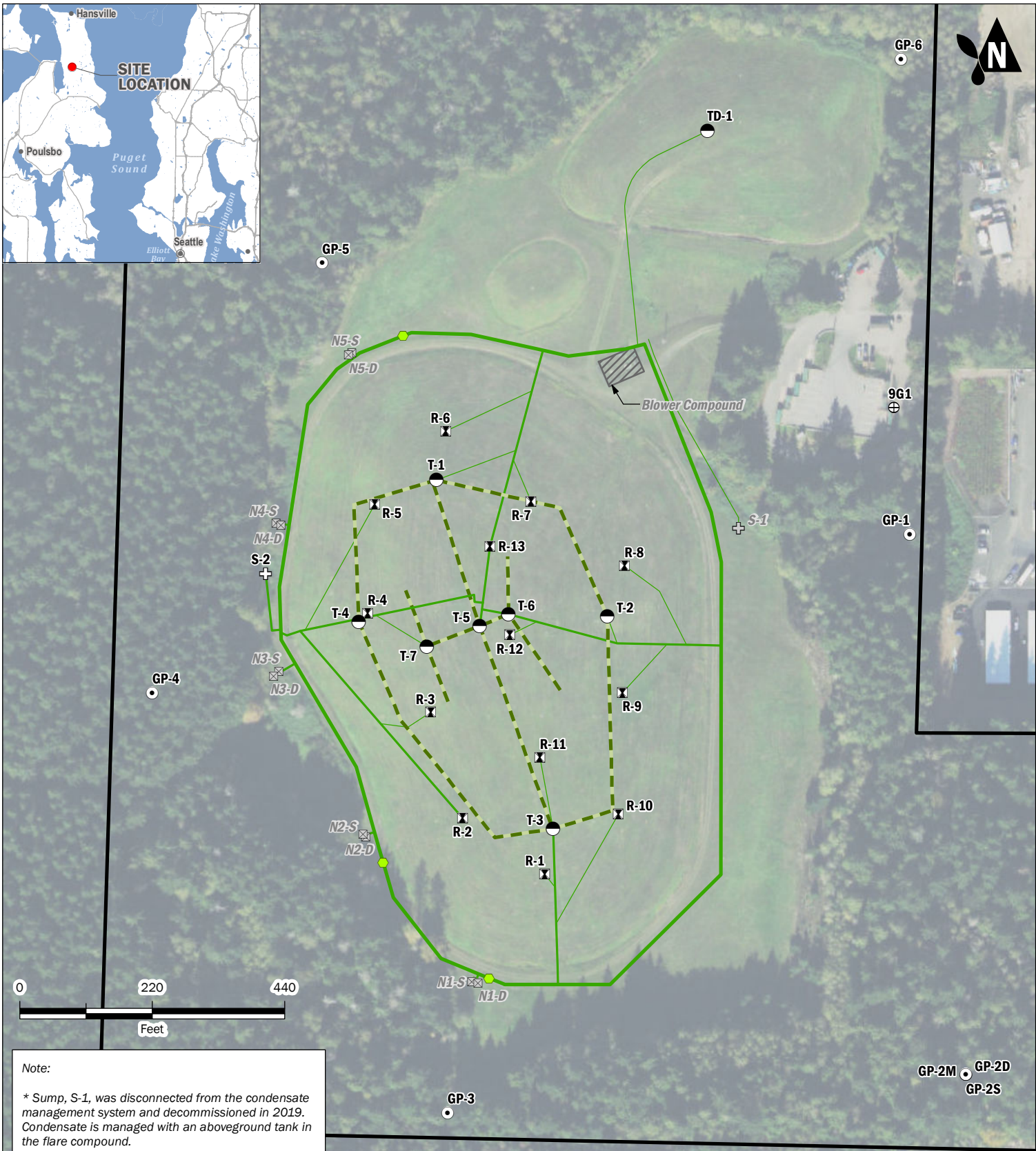
Flow rates measured using orifice plates (where installed).

N/A = indicates parameter not measured.

"H₂O = inches water column

°F = degrees Fahrenheit

SCFM = standard cubici feet per minute



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* *Decommissioned in 2019*

Landfill Gas System

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

Landfill Gas System
2024 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, Washington



MAR-2024
PROJECT NO.
160423

BY:
MLK / RAP
REVISED BY:
TDR / HMD

FIGURE NO.
A-1

ATTACHMENT B

Water Quality Results

Table B-1. Water Level Elevations

Project No. 160423, Hansville Landfill, Hansville, WA

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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	100.41	266.5
MW-6	332.0	332.7	260	245	74.52	258.2
MW-7	344.3	346.0	259	244	85.28	260.7
MW-12I	245.6	248.1	217	207	9.95	238.2
MW-13D	258.1	260.4	205	195	11.30	249.1
MW-14	338.6	341.1	262	247	82.18	258.9

Notes:

Depths to water collected January 17, 2024.

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

ft = feet

Table B-2. Groundwater Quality Results

Project No. 160423, Hansville, Washington

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Location Date Sample			MW-5 01/17/2024 MW-5-240117	MW-6 01/17/2024 MW-6-240117	MW-7 01/17/2024 MW-7-240117	MW-12I 01/17/2024 MW-12I-240117	MW-13D 01/17/2024 MW-13D-240117	MW-14 01/17/2024 MW-14-240117
Analyte	Unit	Hansville SCL						
Conventionals								
Alkalinity as Bicarbonate	mg/L		77	100	130	120	72	89
Alkalinity as Carbonate	mg/L		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Alkalinity, Total	mg/L		77	100	130	120	72	89
Ammonia as Nitrogen	mg/L		< 0.03 U	< 0.03 U	0.03	< 0.03 U	0.035	0.049
Chloride	mg/L		< 3 U	3.5	< 3 U	11	4.4	3.9
Nitrate as Nitrogen	mg/L		3.39	0.43	0.576	< 0.1 U	< 0.1 U	0.159
Nitrite as Nitrogen	mg/L		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Orthophosphate	mg/L		0.037	0.033	0.06	0.045	0.085	0.136 J
Sulfate	mg/L		7.5	16	5.2	11	15	9
Total Organic Carbon	mg/L		< 1 U	< 1 U	1.6	2.2	< 1 U	1.6
Field Parameters								
Temperature	deg C		9	11.34	7.59	9.45	9.75	10
Specific Conductance	uS/cm		122.51	155.79	174.14	190.66	118.63	172.8
Dissolved Oxygen	mg/L		9.8	0.28	1.44	0.15	0.14	0.34
pH	pH units		7.14	7.21	6.43	7.12	7.66	7.21
Oxidation Reduction Potential	mV		120.5	73.2	134	97.3	68.6	96.1
Turbidity	NTU		5.54	2.93	20.5	2.57	18	23.1
Metals, dissolved								
Arsenic	ug/L	5	1.75	1.92	1.49	2.24	5.05	12.7
Manganese	ug/L	2240	< 1 U	200	2.2	68	11	1200
VOCs								
Vinyl Chloride	ug/L	0.025	< 0.02 U	0.053	< 0.02 U	0.062	< 0.02 U	0.022

Notes

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

mV = millivolts

µS/cm = microSiemens per centimeter

deg C = degrees Celsius

NTU = Nephelometric Turbidity Units

mg/L = milligram per liter

ug/L = microgram per liter

Table B-3. Surface Water Quality Results

Project No. 160423, Hansville, Washington

DRAFT

Location Date Sample			SW-1 01/17/2024 SW-1-240117	SW-4 01/17/2024 SW-4-240117	SW-6 01/17/2024 SW-6-240117	SW-7 01/17/2024 SW-7-240117
Analyte	Unit	Hansville SCL				
Conventionals						
Alkalinity as Bicarbonate	mg/L		73	130	44	60
Alkalinity as Carbonate	mg/L		< 10 U	< 10 U	< 10 U	< 10 U
Alkalinity, Total	mg/L		73	130	44	60
Ammonia as Nitrogen	mg/L		< 0.03 U	< 0.03 U	0.068	0.055
Chloride	mg/L		4.3	8.5	3.7	3.6
Nitrate as Nitrogen	mg/L		2.76	0.755	0.128	1.04
Nitrite as Nitrogen	mg/L		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Orthophosphate	mg/L		0.036	0.022	0.026	0.068
Sulfate	mg/L		10	18	6	8.8
Total Organic Carbon	mg/L		2	11	23	10
Field Parameters						
Temperature	deg C		7.1	4.4	2	3.7
Specific Conductance	uS/cm		478.8	237.2	98.4	130.2
Dissolved Oxygen	mg/L		8.04	11.02	11.97	10.53
pH	pH units		6.65	7.02	7.5	7.61
Oxidation Reduction Potential	mV		106.2	104.6	77.6	73.8
Turbidity	NTU		1.13	3.89	14.5	4.02
Metals, dissolved						
Arsenic	ug/L	5	1.45	1.49	1.98	1.21
Manganese	ug/L	2240	< 1 U	40	24	4.5
VOCs						
Vinyl Chloride	ug/L	0.025	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U

Notes

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

mV = millivolts

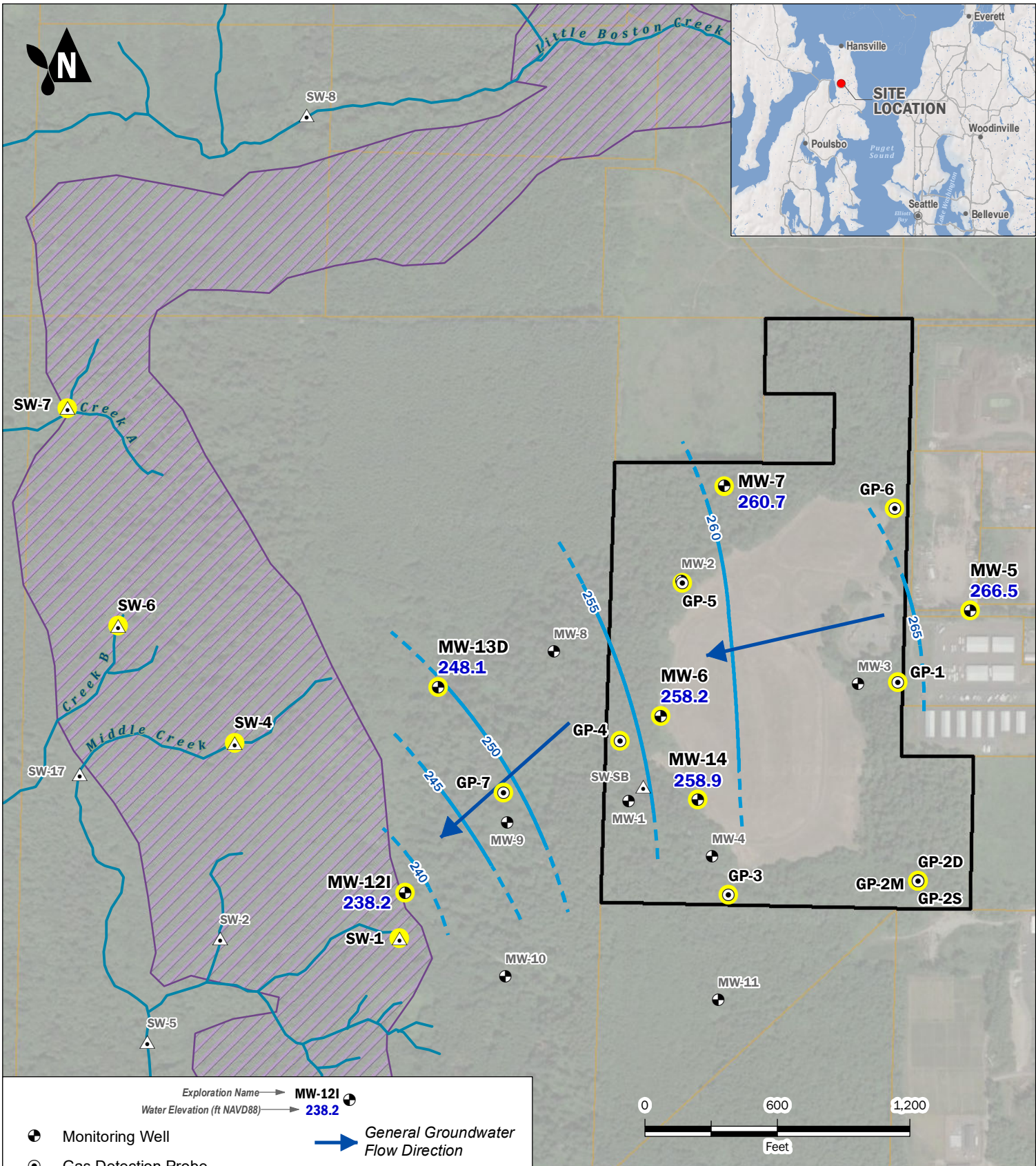
µS/cm = microSiemens per centimeter

deg C = degrees Celsius

NTU = Nephelometric Turbidity Units

mg/L = milligram per liter

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 17, 2024

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).

Basemap Layer Credits || Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
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Compliance Monitoring Locations

2024 First Quarter Environmental Monitoring Report

Hansville Landfill

Kitsap County, Washington

APR-2024

PROJECT NO. 160423

BY: CMT / HMD

REVISED BY: ---

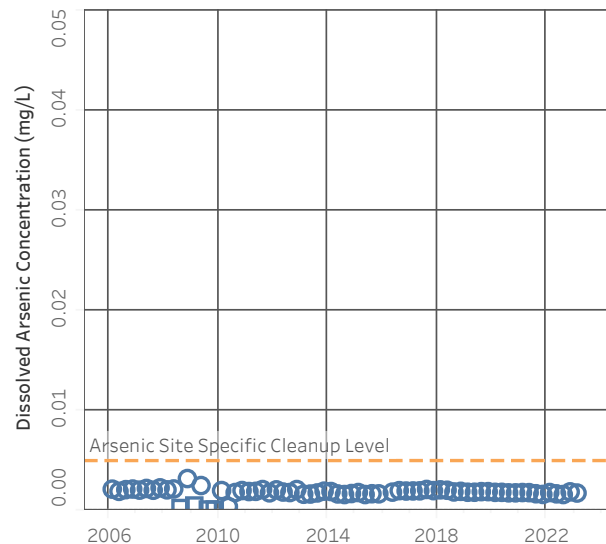
FIGURE NO.

B-1

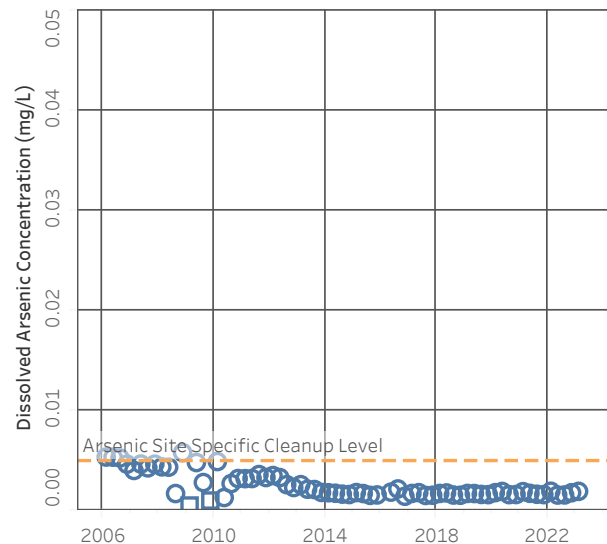
ATTACHMENT C

Groundwater Statistics and Time-Series Plots

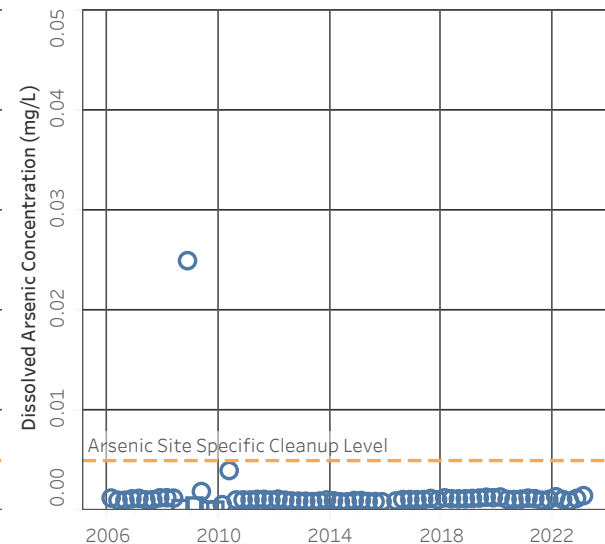
MW-5 (Background Well)



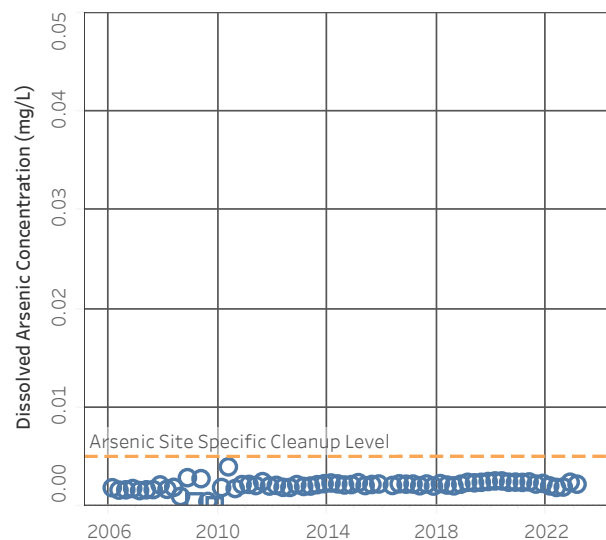
MW-6



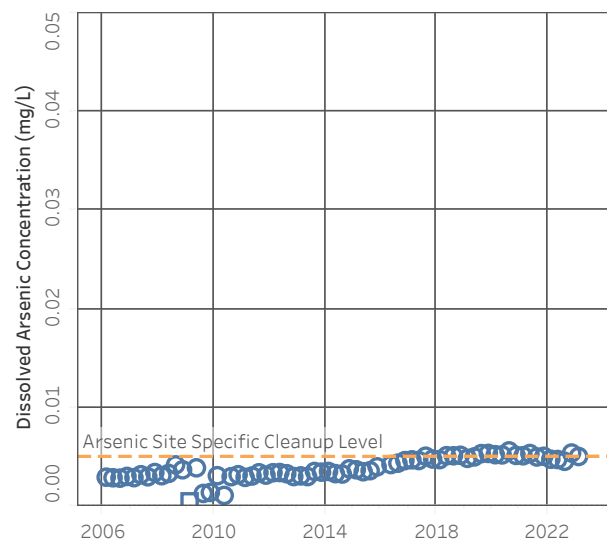
MW-7



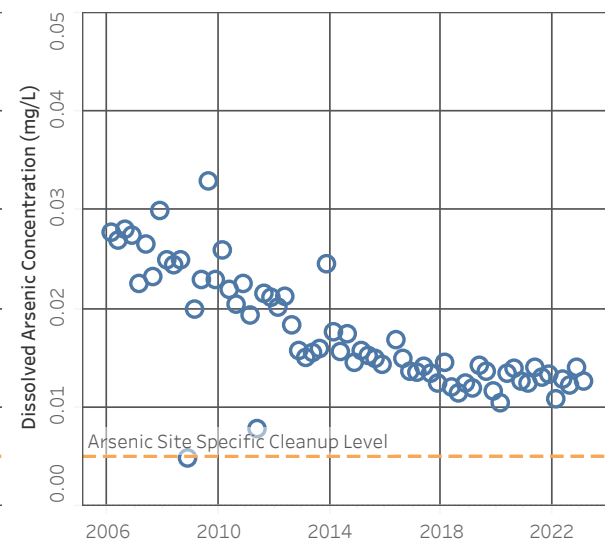
MW-12I



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

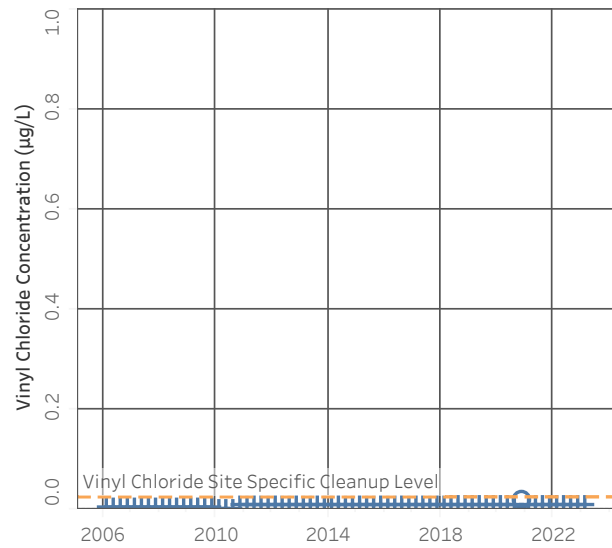


05/07/2024
Trend Plots (As)

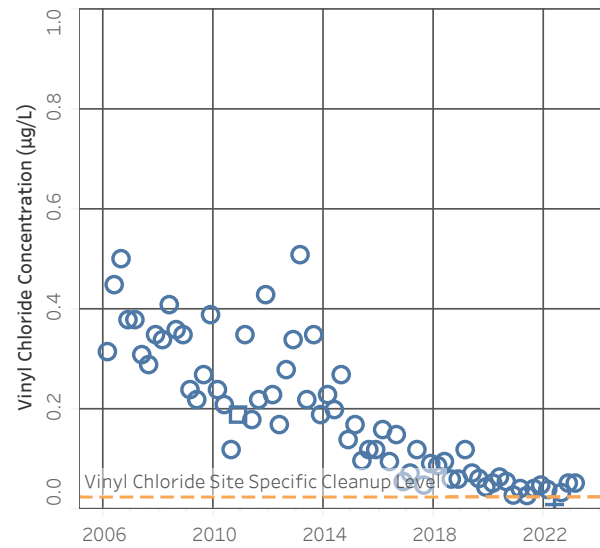
Figure C-1 - First Quarter Dissolved Arsenic Sampling Results

2024 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, WA

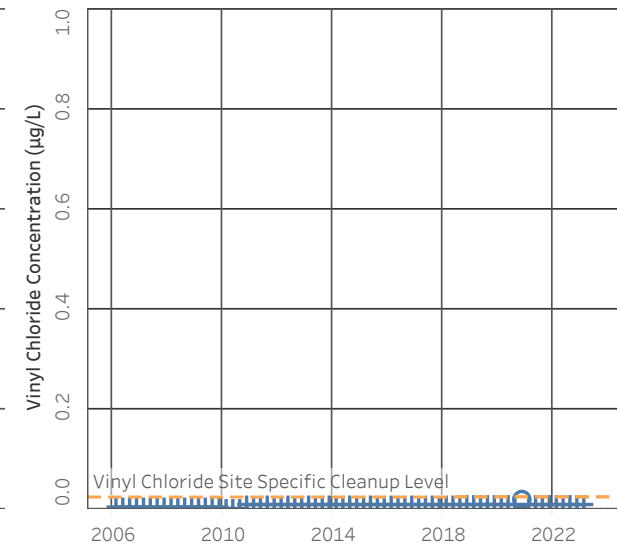
MW-5 (Background Well)



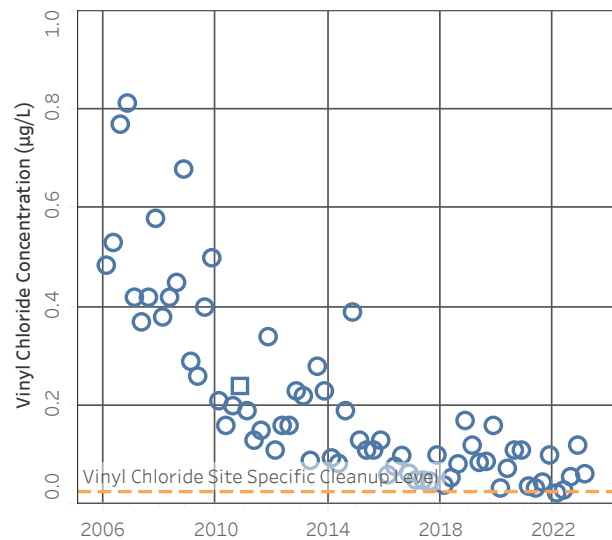
MW-6



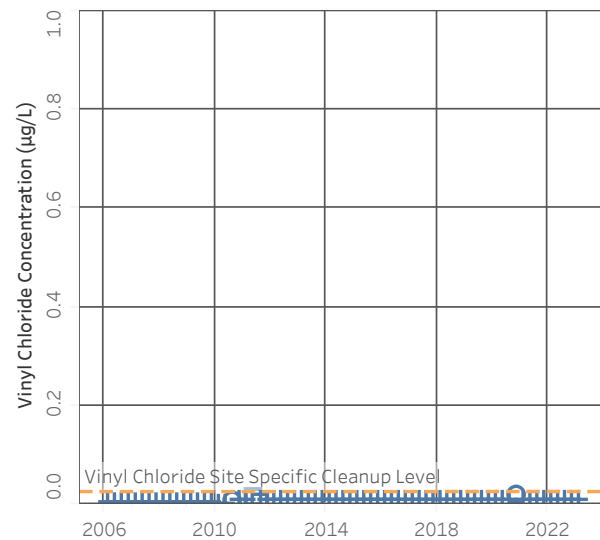
MW-7



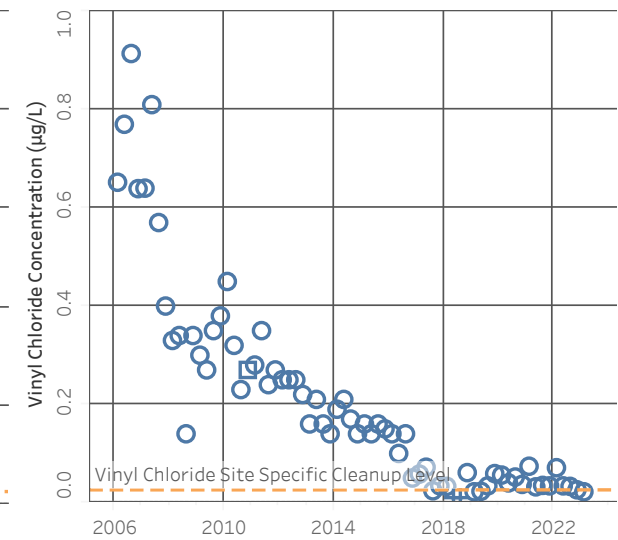
MW-12I



MW-13D



MW-14



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

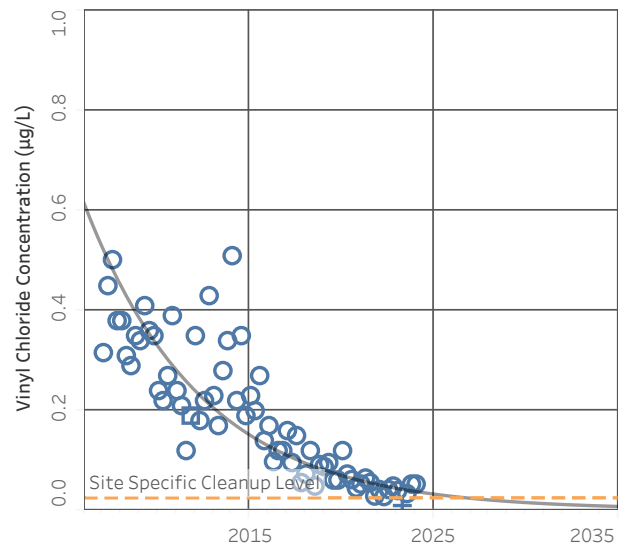
Result Flags

○ Detected

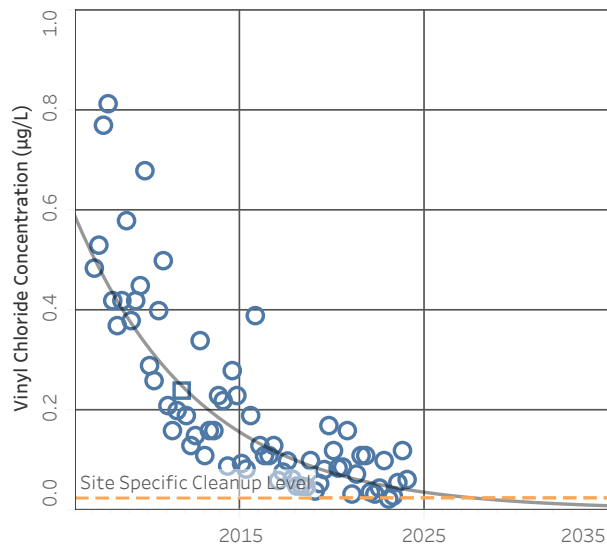
□ J - Estimate

+ U - Non-Detect

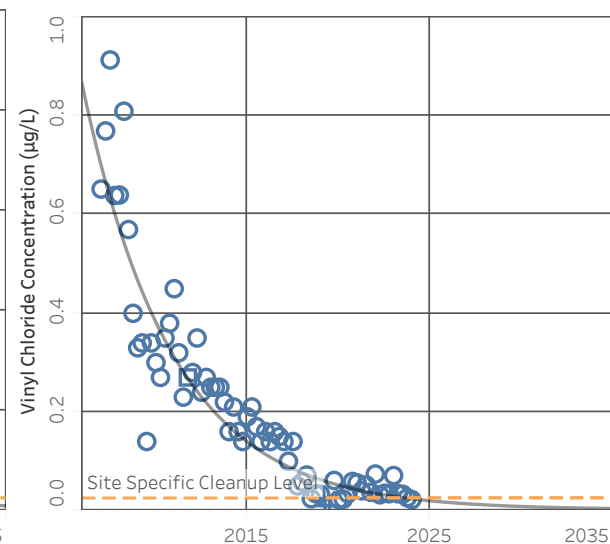
MW-6 Vinyl Chloride Trend



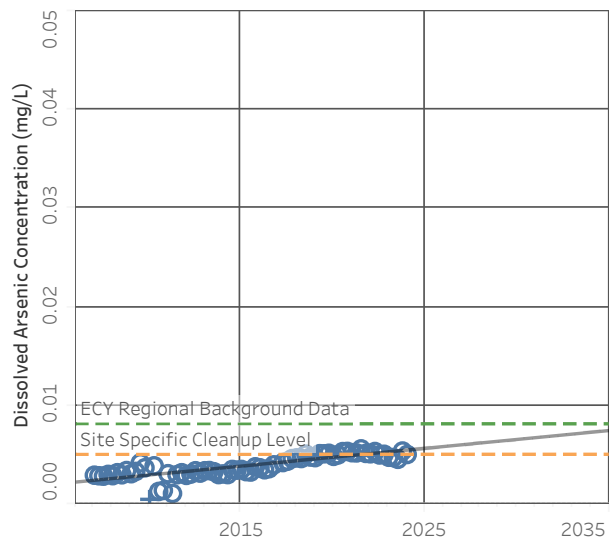
MW-12I Vinyl Chloride Trend



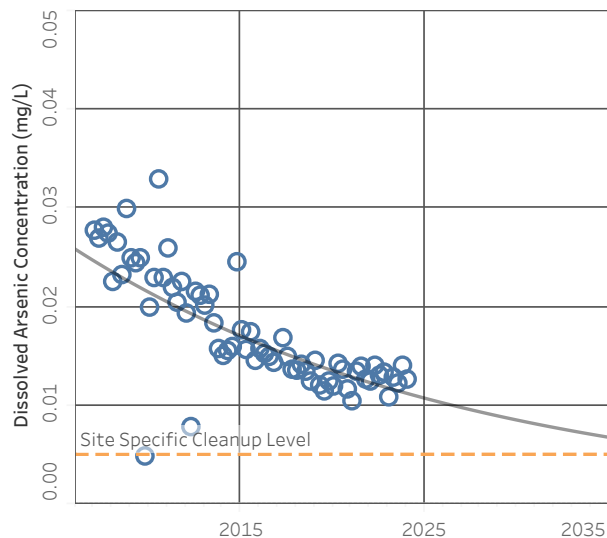
MW-14 Vinyl Chloride Trend



MW-13D Dissolved Arsenic Trend



MW-14 Dissolved Arsenic Trend



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

Result Flags

○ Detected

□ J - Estimate

+ U - Non-Detect

ATTACHMENT D

Field Forms and Laboratory Reports

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-7

Page: 1 of 1

Project Name: Hansville Landfill Q1 2024

Project Number: 160423

Date: 1/17/2024

Sampled by: CMT / RWN / FCE

Measuring Point of Well: NTOC

Screened Interval (ft. bgs)

Filter Pack Interval (ft. bgs)

Starting Water Level (ft TOC): 85.28

Sample Intake Depth (ft TOC):

Total Depth After Sampling (ft TOC):

Casing Diameter (inches): 2"

Casing Volume (ft Water) x (L/ft) = (L)

Casing volumes: 3/4" = 0.09 L/ft 2" = 0.62 L/ft 4" = 2.46 L/ft 6" = 5.56 L/ft

WELL CONDITION

Vault Condition: good

Well Sealed? yes

Lock Present? yes

Standing Water in Vault? NO

Ecology Well Tag Present (and Number if yes)?
PURGING MEASUREMENTS

Stabilization Criteria (for 3 consecutive readings):		Typical 0.1-0.5 Lpm	Stable (<0.3 ft target)	na	± 3%	± 10% (or ± 0.5 mg/L if < 1 mg/L)	± 0.1	± 10 mV	± 10% (or 3 successive < 10 NTU)	
Time	Cumul. Volume (L)	Purge Rate (L/min)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
0835										START
0840										Water Fush in tubing
0902	0.5	-	-	8.11	176.38	3.44	6.41	169.7	90.8	
0907	1.0	0.1	85.31	8.28	178.98	1.99	6.43	158.8	107	Cleaning up
0912	1.5	0.1	85.32	8.22	178.98	1.49	6.48	150.6	96.9	
0917	2.0	0.1	85.32	8.26	178.82	1.41	6.43	146.1	88.2	
0922	2.5	0.1	85.32	7.87	178.55	1.37	6.40	143.2	81.7	
0927	3.0	0.1	85.32	7.99	176.40	1.39	6.37	141.3	72.1	
0932	3.5	0.1	85.32	7.72	174.68	1.41	6.42	138.0	49.4	
0937	4.0	0.1	85.32	7.59	174.14	1.44	6.43	134	20.5	
0945										Sample

Total Liters Purged: 5.0 Total Casing Volumes Removed: Ending Water Level (ft TOC): 85.33
SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
0945	40 ml	VOA	6	No	HCL	Clear	17.6	
	500 ml	Amber	1	No	H2SO4			
	500 ml	Poly	2	No	None			1 to ARI (No3/No2), 1 to Denver (Alks/Cl/SO4)
	500 ml	Poly	2	YES	HNO3			Both FF, 1 to ARI (Diss As), 1 to Denver (Diss. Mn)
	250 ml	Poly	1	YES	None			FF, O-phos, to ARI

METHODS
Green aquatrim, Green turbidimeter, purple

Parameters measured with (instrument model & serial number): Orange YSI, Purple and White WLI, Orange Turbidimeter white wli

Purging Equipment: Dedicated Bladder pump or Red/White Peri-pump Decon Equipment: Alconox and DI water

Disposal of Discharged Water: On site

Observations/Comments: 1 Cycle per min, 40sec refill, 20sec discharge,
150-200 psi and/or 3 cpm, 10sec refill, 9 sec discharge.
No Chemical odor, No Sheen Observed.

X:\Aspect Forms\Field Forms\Groundwater Sampling Form

X:\Aspect Forms\Field Forms\Groundwater Sampling Form

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-6

Page: 1 of 1

Project Name: Hansville Landfill Q1 2024

Project Number: 160423

Date: 1/17/2024

Sampled by: CMT / RWN / FCE

Measuring Point of Well: NTOC

Screened Interval (ft. bgs) -

Filter Pack Interval (ft. bgs) -

Casing Volume - (ft Water) x 0.62 (L/ft) = - (L)

Casing volumes: 3/4" = 0.09 L/ft 2" = 0.62 L/ft 4" = 2.46 L/ft 6" = 5.56 L/ft

Starting Water Level (ft TOC): 74.52
Sample Intake Depth (ft TOC): Dedicated pump
Total Depth After Sampling (ft TOC): -
Casing Diameter (inches): 2"
WELL CONDITION

Vault Condition: Good Condition

Well Sealed? Yes

Lock Present? Yes

Standing Water in Vault? N/A

Ecology Well Tag Present (and Number if yes)? -
PURGING MEASUREMENTS

Stabilization Criteria (for 3 consecutive readings):		Typical 0.1-0.5 Lpm	Stable (<0.3 ft target)	na	± 3%	± 10% (or ± 0.5 mg/L if < 1 mg/L)	± 0.1	± 10 mV	± 10% (or 3 successive < 10 NTU)	
Time	Cumul. Volume (L)	Purge Rate (L/min)	Water Level (ft)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mv)	Turbidity (NTU)	Comments
1710			74.52						11.2	Begin purging
1715	1.0	0.2	74.61	11.27	154.12	0.73	7.31	80.5	8.12	Clear, no odor, no Sheen
1720	2.0	0.2	74.62	11.59	154.04	0.33	7.16	80.2	4.93	
1725	3.0	0.2	74.62	11.52	154.70	0.28	7.26	73.8	3.44	
1730	4.0	0.2	74.63	11.34	155.79	0.28	7.21	73.2	2.93	
1735										Sample

Total Liters Purged: 6.25 Total Casing Volumes Removed: - Ending Water Level (ft TOC): 74.52
SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
1735	40 ml	VOA	6	No	HCL	Clear	2.06	
	500 ml	Amber	1	No	H2SO4			
	500 ml	Poly	2	No	None			1 to ARI (No3/No2), 1 to Denver (Alks/Cl/SO4)
	500 ml	Poly	2	YES	HNO3			Both FF, 1 to ARI (Diss As), 1 to Denver (Diss. Mn)
	250 ml	Poly	1	YES	None			FF, O-phos, to ARI

METHODS

Parameters measured with (instrument model & serial number): Green AT500, Orange YSI, Purple and White WLI, Orange Turbidimeter

Purging Equipment: Dedicated Bladder pump or Red/White Peri-pump Decon Equipment: Alconox and DI water

Disposal of Discharged Water: On site

Observations/Comments: 4 cycles/min, 5 sec refill, 10 sec Discharge, 60 psi / I 150 ft.
Low turbidity, NO color, no chemical odor, no Sheen Observed.

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Peter Bannister
Aspect Consulting
350 Madison Ave N
Bainbridge Island, Washington 98110

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JOB DESCRIPTION

Hansville Landfill
1Q Sampling

JOB NUMBER

280-186819-1

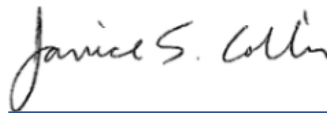
Eurofins Denver

Job Notes

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

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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.

General Chemistry

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

Glossary

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

Case Narrative

Client: Aspect Consulting
Project: Hansville Landfill

Job ID: 280-186819-1

Job ID: 280-186819-1

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Job Narrative 280-186819-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

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

Receipt

The samples were received on 1/22/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6°C and 5.0°C

Receipt Exceptions

The following samples were received with broken VOA Vials due to the samples freezing in transit: MW-5-240117 (280-186819-1), MW-12I-240117 (280-186819-4), MW-13D-240117 (280-186819-5) and MW-20DD-240117 (280-186819-7). Sufficient volume remained for analysis.

Subcontract Work

Methods Dissolved As (ARI) - direct sub to ARI from field, Nitrate/Nitrite/o-phos(field filtered) (ARI) - direct sub to ARI from field: These methods were subcontracted to Analytical Resources, Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

Method 8260C: The initial calibration verification (ICV) result for batch 480-699186 was above the upper control limit. The affected analytes are Acrolein. Sample results were non-detects, and have been reported as qualified data.

Method 8260C: The initial calibration curve analyzed in batch 480-699186 was outside method criteria for the following analyte(s): Isobutyl alcohol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered an estimated concentration.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-699186 recovered above the upper control limit for Isobutyl alcohol, Chlorodifluoromethane, n-Butanol and 1,4-Dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-5-240117 (280-186819-1), MW-6-240117 (280-186819-2), MW-7-240117 (280-186819-3), MW-12I-240117 (280-186819-4), MW-13D-240117 (280-186819-5), MW-14-240117 (280-186819-6), MW-20DD-240117 (280-186819-7), SW-1-240117 (280-186819-8), SW-4-240117 (280-186819-9), SW-6-240117 (280-186819-10), SW-7-240117 (280-186819-11) and TB1-240117 (280-186819-12).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-699186 recovered outside control limits for the following analytes: 2-Methyl-2-propanol, Isobutyl alcohol and 1,4-Dioxane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-699343 recovered outside acceptance criteria, low biased, for Tetrahydrofuran. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since

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Case Narrative

Client: Aspect Consulting
Project: Hansville Landfill

Job ID: 280-186819-1

Job ID: 280-186819-1 (Continued)

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the associated samples were non-detect for the analyte(s), the data are reported. The associated sample is impacted: TB2-240117 (280-186819-13).

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: TB2-240117 (280-186819-13). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

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

Metals

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

General Chemistry

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

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Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Client Sample ID: MW-5-240117

Lab Sample ID: 280-186819-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.5		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	77		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	77		10		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-6-240117

Lab Sample ID: 280-186819-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.053		0.020		ug/L	1		8260C SIM	Total/NA
Manganese	200		1.0		ug/L	1		6020	Dissolved
Chloride	3.5		3.0		mg/L	1		300.0	Total/NA
Sulfate	16		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: MW-7-240117

Lab Sample ID: 280-186819-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.2		1.0		ug/L	1		6020	Dissolved
Sulfate	5.2		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.030		0.030		mg/L	1		350.1	Total/NA
Total Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.6		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW-12I-240117

Lab Sample ID: 280-186819-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.062		0.020		ug/L	1		8260C SIM	Total/NA
Manganese	68		1.0		ug/L	1		6020	Dissolved
Chloride	11		3.0		mg/L	1		300.0	Total/NA
Sulfate	11		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	2.2		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW-13D-240117

Lab Sample ID: 280-186819-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	11		1.0		ug/L	1		6020	Dissolved
Chloride	4.4		3.0		mg/L	1		300.0	Total/NA
Sulfate	15		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.035		0.030		mg/L	1		350.1	Total/NA
Total Alkalinity	72		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	72		10		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-14-240117

Lab Sample ID: 280-186819-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.022		0.020		ug/L	1		8260C SIM	Total/NA
cis-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260C	Total/NA
Manganese	1200		1.0		ug/L	1		6020	Dissolved
Chloride	3.9		3.0		mg/L	1		300.0	Total/NA
Sulfate	9.0		5.0		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Client Sample ID: MW-14-240117 (Continued)

Lab Sample ID: 280-186819-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	0.049		0.030		mg/L	1		350.1	Total/NA
Total Alkalinity	89		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	89		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.6		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW-20DD-240117

Lab Sample ID: 280-186819-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.020		0.020		ug/L	1		8260C SIM	Total/NA
cis-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260C	Total/NA
Manganese	1200		1.0		ug/L	1		6020	Dissolved
Chloride	3.7		3.0		mg/L	1		300.0	Total/NA
Sulfate	8.9		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	87		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	87		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: SW-1-240117

Lab Sample ID: 280-186819-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.3		3.0		mg/L	1		300.0	Total/NA
Sulfate	10		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
Total Organic Carbon - Average	2.0		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW-4-240117

Lab Sample ID: 280-186819-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	40		1.0		ug/L	1		6020	Dissolved
Chloride	8.5		3.0		mg/L	1		300.0	Total/NA
Sulfate	18		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
Total Organic Carbon - Average	11		2.0		mg/L	2		SM 5310B	Total/NA

Client Sample ID: SW-6-240117

Lab Sample ID: 280-186819-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	24		1.0		ug/L	1		6020	Dissolved
Chloride	3.7		3.0		mg/L	1		300.0	Total/NA
Sulfate	6.0		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.068		0.030		mg/L	1		350.1	Total/NA
Total Alkalinity	44		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	44		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	23		2.0		mg/L	2		SM 5310B	Total/NA

Client Sample ID: SW-7-240117

Lab Sample ID: 280-186819-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	4.5		1.0		ug/L	1		6020	Dissolved
Chloride	3.6		3.0		mg/L	1		300.0	Total/NA
Sulfate	8.8		5.0		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Client Sample ID: SW-7-240117 (Continued)

Lab Sample ID: 280-186819-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	0.055		0.030		mg/L	1		350.1	Total/NA
Total Alkalinity	60		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	60		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	10		2.0		mg/L	2		SM 5310B	Total/NA

Client Sample ID: TB1-240117

Lab Sample ID: 280-186819-12

No Detections.

Client Sample ID: TB2-240117

Lab Sample ID: 280-186819-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	EET BUF
6020	Metals (ICP/MS)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET 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	EET DEN
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Sample Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-186819-1	MW-5-240117	Water	01/17/24 12:00	01/22/24 09:40
280-186819-2	MW-6-240117	Water	01/17/24 17:35	01/22/24 09:40
280-186819-3	MW-7-240117	Water	01/17/24 09:45	01/22/24 09:40
280-186819-4	MW-12I-240117	Water	01/17/24 14:00	01/22/24 09:40
280-186819-5	MW-13D-240117	Water	01/17/24 16:10	01/22/24 09:40
280-186819-6	MW-14-240117	Water	01/17/24 16:10	01/22/24 09:40
280-186819-7	MW-20DD-240117	Water	01/17/24 07:00	01/22/24 09:40
280-186819-8	SW-1-240117	Water	01/17/24 10:55	01/22/24 09:40
280-186819-9	SW-4-240117	Water	01/17/24 11:45	01/22/24 09:40
280-186819-10	SW-6-240117	Water	01/17/24 12:45	01/22/24 09:40
280-186819-11	SW-7-240117	Water	01/17/24 14:00	01/22/24 09:40
280-186819-12	TB1-240117	Water	01/17/24 00:00	01/22/24 09:40
280-186819-13	TB2-240117	Water	01/17/24 00:00	01/22/24 09:40

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-5-240117

Date Collected: 01/17/24 12:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/26/24 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		50 - 150					01/26/24 20:51	1
TBA-d9 (Surr)	122		50 - 150					01/26/24 20:51	1

Client Sample ID: MW-6-240117

Date Collected: 01/17/24 17:35

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.053		0.020		ug/L			01/26/24 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		50 - 150					01/26/24 21:15	1
TBA-d9 (Surr)	104		50 - 150					01/26/24 21:15	1

Client Sample ID: MW-7-240117

Date Collected: 01/17/24 09:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/26/24 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		50 - 150					01/26/24 21:39	1
TBA-d9 (Surr)	98		50 - 150					01/26/24 21:39	1

Client Sample ID: MW-12I-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.062		0.020		ug/L			01/26/24 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		50 - 150					01/26/24 22:03	1
TBA-d9 (Surr)	107		50 - 150					01/26/24 22:03	1

Client Sample ID: MW-13D-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/26/24 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		50 - 150					01/26/24 22:27	1
TBA-d9 (Surr)	108		50 - 150					01/26/24 22:27	1

Client Sample ID: MW-14-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.022		0.020		ug/L			01/26/24 22:51	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		50 - 150		01/26/24 22:51	1
TBA-d9 (Surr)	98		50 - 150		01/26/24 22:51	1

Client Sample ID: MW-20DD-240117
Date Collected: 01/17/24 07:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.020		0.020		ug/L	-		01/26/24 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		50 - 150		01/26/24 23:14	1
TBA-d9 (Surr)	104		50 - 150		01/26/24 23:14	1

Client Sample ID: SW-1-240117
Date Collected: 01/17/24 10:55
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L	-		01/26/24 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		50 - 150		01/26/24 23:38	1
TBA-d9 (Surr)	101		50 - 150		01/26/24 23:38	1

Client Sample ID: SW-4-240117
Date Collected: 01/17/24 11:45
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L	-		01/27/24 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		50 - 150		01/27/24 00:02	1
TBA-d9 (Surr)	95		50 - 150		01/27/24 00:02	1

Client Sample ID: SW-6-240117
Date Collected: 01/17/24 12:45
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L	-		01/27/24 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		50 - 150		01/27/24 00:25	1
TBA-d9 (Surr)	94		50 - 150		01/27/24 00:25	1

Client Sample ID: SW-7-240117
Date Collected: 01/17/24 14:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L	-		01/27/24 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		50 - 150		01/27/24 00:50	1
TBA-d9 (Surr)	90		50 - 150		01/27/24 00:50	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: TB1-240117
Date Collected: 01/17/24 00:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/27/24 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		50 - 150					01/27/24 01:13	1
TBA-d9 (Surr)	99		50 - 150					01/27/24 01:13	1

Client Sample ID: TB2-240117
Date Collected: 01/17/24 00:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/27/24 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		50 - 150					01/27/24 01:37	1
TBA-d9 (Surr)	93		50 - 150					01/27/24 01:37	1

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

Client Sample ID: MW-5-240117
Date Collected: 01/17/24 12:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 12:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 12:36	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 12:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 12:36	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 12:36	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 12:36	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 12:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 12:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 12:36	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 12:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 12:36	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 12:36	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 12:36	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 12:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 12:36	1
1,4-Dioxane	ND	+	40		ug/L			01/29/24 12:36	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 12:36	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 12:36	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 12:36	1
2-Hexanone	ND		5.0		ug/L			01/29/24 12:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 12:36	1

Eurofins Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-5-240117

Date Collected: 01/17/24 12:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			01/29/24 12:36	1
Acetonitrile	ND		15		ug/L			01/29/24 12:36	1
Acrolein	ND		20		ug/L			01/29/24 12:36	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 12:36	1
Benzene	ND		1.0		ug/L			01/29/24 12:36	1
Bromobenzene	ND		1.0		ug/L			01/29/24 12:36	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 12:36	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 12:36	1
Bromoform	ND		1.0		ug/L			01/29/24 12:36	1
Bromomethane	ND		1.0		ug/L			01/29/24 12:36	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 12:36	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 12:36	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 12:36	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 12:36	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 12:36	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 12:36	1
Chloroethane	ND		1.0		ug/L			01/29/24 12:36	1
Chloroform	ND		1.0		ug/L			01/29/24 12:36	1
Chloromethane	ND		1.0		ug/L			01/29/24 12:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 12:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 12:36	1
Cyclohexane	ND		1.0		ug/L			01/29/24 12:36	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 12:36	1
Dibromomethane	ND		1.0		ug/L			01/29/24 12:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 12:36	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 12:36	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 12:36	1
Ethyl ether	ND		1.0		ug/L			01/29/24 12:36	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 12:36	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 12:36	1
Hexane	ND		10		ug/L			01/29/24 12:36	1
Iodomethane	ND		1.0		ug/L			01/29/24 12:36	1
Isobutanol	ND	*+	25		ug/L			01/29/24 12:36	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 12:36	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 12:36	1
Methyl acetate	ND		2.5		ug/L			01/29/24 12:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 12:36	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 12:36	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 12:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 12:36	1
Naphthalene	ND		1.0		ug/L			01/29/24 12:36	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 12:36	1
o-Xylene	ND		1.0		ug/L			01/29/24 12:36	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 12:36	1
p-Cymene	ND		1.0		ug/L			01/29/24 12:36	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-5-240117

Date Collected: 01/17/24 12:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
Styrene	ND		1.0		ug/L			01/29/24 12:36	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 12:36	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 12:36	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 12:36	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 12:36	1
Toluene	ND		1.0		ug/L			01/29/24 12:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 12:36	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 12:36	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 12:36	1
Trichloroethene	ND		1.0		ug/L			01/29/24 12:36	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 12:36	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 12:36	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 12:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/29/24 12:36	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/29/24 12:36	1
Toluene-d8 (Surr)	99		80 - 120		01/29/24 12:36	1

Client Sample ID: MW-6-240117

Date Collected: 01/17/24 17:35

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 12:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 12:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 12:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 12:59	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 12:59	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 12:59	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 12:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 12:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 12:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 12:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 12:59	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 12:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 12:59	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 12:59	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 12:59	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 12:59	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 12:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 12:59	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 12:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 12:59	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-6-240117

Date Collected: 01/17/24 17:35

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 12:59	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 12:59	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 12:59	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 12:59	1
2-Hexanone	ND		5.0		ug/L			01/29/24 12:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 12:59	1
Acetone	ND		10		ug/L			01/29/24 12:59	1
Acetonitrile	ND		15		ug/L			01/29/24 12:59	1
Acrolein	ND		20		ug/L			01/29/24 12:59	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 12:59	1
Benzene	ND		1.0		ug/L			01/29/24 12:59	1
Bromobenzene	ND		1.0		ug/L			01/29/24 12:59	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 12:59	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 12:59	1
Bromoform	ND		1.0		ug/L			01/29/24 12:59	1
Bromomethane	ND		1.0		ug/L			01/29/24 12:59	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 12:59	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 12:59	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 12:59	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 12:59	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 12:59	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 12:59	1
Chloroethane	ND		1.0		ug/L			01/29/24 12:59	1
Chloroform	ND		1.0		ug/L			01/29/24 12:59	1
Chloromethane	ND		1.0		ug/L			01/29/24 12:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 12:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 12:59	1
Cyclohexane	ND		1.0		ug/L			01/29/24 12:59	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 12:59	1
Dibromomethane	ND		1.0		ug/L			01/29/24 12:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 12:59	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 12:59	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 12:59	1
Ethyl ether	ND		1.0		ug/L			01/29/24 12:59	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 12:59	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 12:59	1
Hexane	ND		10		ug/L			01/29/24 12:59	1
Iodomethane	ND		1.0		ug/L			01/29/24 12:59	1
Isobutanol	ND	*+	25		ug/L			01/29/24 12:59	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 12:59	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 12:59	1
Methyl acetate	ND		2.5		ug/L			01/29/24 12:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 12:59	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 12:59	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 12:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 12:59	1
Naphthalene	ND		1.0		ug/L			01/29/24 12:59	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-6-240117

Date Collected: 01/17/24 17:35

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 12:59	1
o-Xylene	ND		1.0		ug/L			01/29/24 12:59	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 12:59	1
p-Cymene	ND		1.0		ug/L			01/29/24 12:59	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
Styrene	ND		1.0		ug/L			01/29/24 12:59	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 12:59	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 12:59	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 12:59	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 12:59	1
Toluene	ND		1.0		ug/L			01/29/24 12:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 12:59	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 12:59	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 12:59	1
Trichloroethene	ND		1.0		ug/L			01/29/24 12:59	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 12:59	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 12:59	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 12:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		01/29/24 12:59	1
4-Bromofluorobenzene (Surr)	94		73 - 120		01/29/24 12:59	1
Toluene-d8 (Surr)	96		80 - 120		01/29/24 12:59	1

Client Sample ID: MW-7-240117

Date Collected: 01/17/24 09:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 13:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 13:22	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 13:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 13:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 13:22	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 13:22	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 13:22	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 13:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 13:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 13:22	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 13:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 13:22	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 13:22	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-7-240117

Date Collected: 01/17/24 09:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 13:22	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 13:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 13:22	1
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 13:22	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 13:22	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 13:22	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 13:22	1
2-Hexanone	ND		5.0		ug/L			01/29/24 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 13:22	1
Acetone	ND		10		ug/L			01/29/24 13:22	1
Acetonitrile	ND		15		ug/L			01/29/24 13:22	1
Acrolein	ND		20		ug/L			01/29/24 13:22	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 13:22	1
Benzene	ND		1.0		ug/L			01/29/24 13:22	1
Bromobenzene	ND		1.0		ug/L			01/29/24 13:22	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 13:22	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 13:22	1
Bromoform	ND		1.0		ug/L			01/29/24 13:22	1
Bromomethane	ND		1.0		ug/L			01/29/24 13:22	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 13:22	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 13:22	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 13:22	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 13:22	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 13:22	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 13:22	1
Chloroethane	ND		1.0		ug/L			01/29/24 13:22	1
Chloroform	ND		1.0		ug/L			01/29/24 13:22	1
Chloromethane	ND		1.0		ug/L			01/29/24 13:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 13:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 13:22	1
Cyclohexane	ND		1.0		ug/L			01/29/24 13:22	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 13:22	1
Dibromomethane	ND		1.0		ug/L			01/29/24 13:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 13:22	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 13:22	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 13:22	1
Ethyl ether	ND		1.0		ug/L			01/29/24 13:22	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 13:22	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 13:22	1
Hexane	ND		10		ug/L			01/29/24 13:22	1
Iodomethane	ND		1.0		ug/L			01/29/24 13:22	1
Isobutanol	ND	*+	25		ug/L			01/29/24 13:22	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 13:22	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 13:22	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-7-240117

Date Collected: 01/17/24 09:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		2.5		ug/L			01/29/24 13:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 13:22	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 13:22	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 13:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 13:22	1
Naphthalene	ND		1.0		ug/L			01/29/24 13:22	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 13:22	1
o-Xylene	ND		1.0		ug/L			01/29/24 13:22	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 13:22	1
p-Cymene	ND		1.0		ug/L			01/29/24 13:22	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
Styrene	ND		1.0		ug/L			01/29/24 13:22	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 13:22	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 13:22	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 13:22	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 13:22	1
Toluene	ND		1.0		ug/L			01/29/24 13:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 13:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 13:22	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 13:22	1
Trichloroethene	ND		1.0		ug/L			01/29/24 13:22	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 13:22	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 13:22	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 13:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		01/29/24 13:22	1
4-Bromofluorobenzene (Surr)	97		73 - 120		01/29/24 13:22	1
Toluene-d8 (Surr)	97		80 - 120		01/29/24 13:22	1

Client Sample ID: MW-12I-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 13:45	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 13:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 13:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 13:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 13:45	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 13:45	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 13:45	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 13:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 13:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 13:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 13:45	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-12I-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 13:45	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 13:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 13:45	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 13:45	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 13:45	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 13:45	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 13:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 13:45	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 13:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 13:45	1
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 13:45	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 13:45	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 13:45	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 13:45	1
2-Hexanone	ND		5.0		ug/L			01/29/24 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 13:45	1
Acetone	ND		10		ug/L			01/29/24 13:45	1
Acetonitrile	ND		15		ug/L			01/29/24 13:45	1
Acrolein	ND		20		ug/L			01/29/24 13:45	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 13:45	1
Benzene	ND		1.0		ug/L			01/29/24 13:45	1
Bromobenzene	ND		1.0		ug/L			01/29/24 13:45	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 13:45	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 13:45	1
Bromoform	ND		1.0		ug/L			01/29/24 13:45	1
Bromomethane	ND		1.0		ug/L			01/29/24 13:45	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 13:45	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 13:45	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 13:45	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 13:45	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 13:45	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 13:45	1
Chloroethane	ND		1.0		ug/L			01/29/24 13:45	1
Chloroform	ND		1.0		ug/L			01/29/24 13:45	1
Chloromethane	ND		1.0		ug/L			01/29/24 13:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 13:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 13:45	1
Cyclohexane	ND		1.0		ug/L			01/29/24 13:45	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 13:45	1
Dibromomethane	ND		1.0		ug/L			01/29/24 13:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 13:45	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 13:45	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 13:45	1
Ethyl ether	ND		1.0		ug/L			01/29/24 13:45	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 13:45	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 13:45	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-12I-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	ND		10		ug/L			01/29/24 13:45	1
Iodomethane	ND		1.0		ug/L			01/29/24 13:45	1
Isobutanol	ND	+	25		ug/L			01/29/24 13:45	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 13:45	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 13:45	1
Methyl acetate	ND		2.5		ug/L			01/29/24 13:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 13:45	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 13:45	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 13:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 13:45	1
Naphthalene	ND		1.0		ug/L			01/29/24 13:45	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 13:45	1
o-Xylene	ND		1.0		ug/L			01/29/24 13:45	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 13:45	1
p-Cymene	ND		1.0		ug/L			01/29/24 13:45	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
Styrene	ND		1.0		ug/L			01/29/24 13:45	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 13:45	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 13:45	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 13:45	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 13:45	1
Toluene	ND		1.0		ug/L			01/29/24 13:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 13:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 13:45	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 13:45	1
Trichloroethene	ND		1.0		ug/L			01/29/24 13:45	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 13:45	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 13:45	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 13:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		01/29/24 13:45	1
4-Bromofluorobenzene (Surr)	98		73 - 120		01/29/24 13:45	1
Toluene-d8 (Surr)	96		80 - 120		01/29/24 13:45	1

Client Sample ID: MW-13D-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 14:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 14:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 14:09	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-13D-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 14:09	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 14:09	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 14:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 14:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 14:09	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 14:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 14:09	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 14:09	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 14:09	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 14:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:09	1
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 14:09	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 14:09	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 14:09	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 14:09	1
2-Hexanone	ND		5.0		ug/L			01/29/24 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 14:09	1
Acetone	ND		10		ug/L			01/29/24 14:09	1
Acetonitrile	ND		15		ug/L			01/29/24 14:09	1
Acrolein	ND		20		ug/L			01/29/24 14:09	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 14:09	1
Benzene	ND		1.0		ug/L			01/29/24 14:09	1
Bromobenzene	ND		1.0		ug/L			01/29/24 14:09	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 14:09	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 14:09	1
Bromoform	ND		1.0		ug/L			01/29/24 14:09	1
Bromomethane	ND		1.0		ug/L			01/29/24 14:09	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 14:09	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 14:09	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 14:09	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 14:09	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 14:09	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 14:09	1
Chloroethane	ND		1.0		ug/L			01/29/24 14:09	1
Chloroform	ND		1.0		ug/L			01/29/24 14:09	1
Chloromethane	ND		1.0		ug/L			01/29/24 14:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 14:09	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 14:09	1
Cyclohexane	ND		1.0		ug/L			01/29/24 14:09	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 14:09	1
Dibromomethane	ND		1.0		ug/L			01/29/24 14:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 14:09	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-13D-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 14:09	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 14:09	1
Ethyl ether	ND		1.0		ug/L			01/29/24 14:09	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 14:09	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 14:09	1
Hexane	ND		10		ug/L			01/29/24 14:09	1
Iodomethane	ND		1.0		ug/L			01/29/24 14:09	1
Isobutanol	ND	*+	25		ug/L			01/29/24 14:09	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 14:09	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 14:09	1
Methyl acetate	ND		2.5		ug/L			01/29/24 14:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 14:09	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 14:09	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 14:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 14:09	1
Naphthalene	ND		1.0		ug/L			01/29/24 14:09	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 14:09	1
o-Xylene	ND		1.0		ug/L			01/29/24 14:09	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 14:09	1
p-Cymene	ND		1.0		ug/L			01/29/24 14:09	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
Styrene	ND		1.0		ug/L			01/29/24 14:09	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 14:09	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 14:09	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 14:09	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 14:09	1
Toluene	ND		1.0		ug/L			01/29/24 14:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 14:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 14:09	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 14:09	1
Trichloroethene	ND		1.0		ug/L			01/29/24 14:09	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 14:09	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 14:09	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 14:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/29/24 14:09	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/29/24 14:09	1
Toluene-d8 (Surr)	97		80 - 120		01/29/24 14:09	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-14-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 14:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 14:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 14:32	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 14:32	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 14:32	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 14:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 14:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 14:32	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 14:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 14:32	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 14:32	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 14:32	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 14:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:32	1
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 14:32	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 14:32	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 14:32	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 14:32	1
2-Hexanone	ND		5.0		ug/L			01/29/24 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 14:32	1
Acetone	ND		10		ug/L			01/29/24 14:32	1
Acetonitrile	ND		15		ug/L			01/29/24 14:32	1
Acrolein	ND		20		ug/L			01/29/24 14:32	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 14:32	1
Benzene	ND		1.0		ug/L			01/29/24 14:32	1
Bromobenzene	ND		1.0		ug/L			01/29/24 14:32	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 14:32	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 14:32	1
Bromoform	ND		1.0		ug/L			01/29/24 14:32	1
Bromomethane	ND		1.0		ug/L			01/29/24 14:32	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 14:32	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 14:32	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 14:32	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 14:32	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 14:32	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 14:32	1
Chloroethane	ND		1.0		ug/L			01/29/24 14:32	1
Chloroform	ND		1.0		ug/L			01/29/24 14:32	1
Chloromethane	ND		1.0		ug/L			01/29/24 14:32	1
cis-1,2-Dichloroethene	1.6		1.0		ug/L			01/29/24 14:32	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-14-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 14:32	1
Cyclohexane	ND		1.0		ug/L			01/29/24 14:32	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 14:32	1
Dibromomethane	ND		1.0		ug/L			01/29/24 14:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 14:32	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 14:32	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 14:32	1
Ethyl ether	ND		1.0		ug/L			01/29/24 14:32	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 14:32	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 14:32	1
Hexane	ND		10		ug/L			01/29/24 14:32	1
Iodomethane	ND		1.0		ug/L			01/29/24 14:32	1
Isobutanol	ND	*+	25		ug/L			01/29/24 14:32	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 14:32	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 14:32	1
Methyl acetate	ND		2.5		ug/L			01/29/24 14:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 14:32	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 14:32	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 14:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 14:32	1
Naphthalene	ND		1.0		ug/L			01/29/24 14:32	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 14:32	1
o-Xylene	ND		1.0		ug/L			01/29/24 14:32	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 14:32	1
p-Cymene	ND		1.0		ug/L			01/29/24 14:32	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
Styrene	ND		1.0		ug/L			01/29/24 14:32	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 14:32	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 14:32	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 14:32	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 14:32	1
Toluene	ND		1.0		ug/L			01/29/24 14:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 14:32	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 14:32	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 14:32	1
Trichloroethene	ND		1.0		ug/L			01/29/24 14:32	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 14:32	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 14:32	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 14:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		01/29/24 14:32	1
4-Bromofluorobenzene (Surr)	93		73 - 120		01/29/24 14:32	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-14-240117
Date Collected: 01/17/24 16:10
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		01/29/24 14:32	1

Client Sample ID: MW-20DD-240117
Date Collected: 01/17/24 07:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 14:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 14:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 14:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 14:55	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 14:55	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 14:55	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 14:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 14:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 14:55	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 14:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 14:55	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 14:55	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 14:55	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 14:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 14:55	1
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 14:55	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 14:55	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 14:55	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 14:55	1
2-Hexanone	ND		5.0		ug/L			01/29/24 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 14:55	1
Acetone	ND		10		ug/L			01/29/24 14:55	1
Acetonitrile	ND		15		ug/L			01/29/24 14:55	1
Acrolein	ND		20		ug/L			01/29/24 14:55	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 14:55	1
Benzene	ND		1.0		ug/L			01/29/24 14:55	1
Bromobenzene	ND		1.0		ug/L			01/29/24 14:55	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 14:55	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 14:55	1
Bromoform	ND		1.0		ug/L			01/29/24 14:55	1
Bromomethane	ND		1.0		ug/L			01/29/24 14:55	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 14:55	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 14:55	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 14:55	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 14:55	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: MW-20DD-240117

Date Collected: 01/17/24 07:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			01/29/24 14:55	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 14:55	1
Chloroethane	ND		1.0		ug/L			01/29/24 14:55	1
Chloroform	ND		1.0		ug/L			01/29/24 14:55	1
Chloromethane	ND		1.0		ug/L			01/29/24 14:55	1
cis-1,2-Dichloroethene	1.6		1.0		ug/L			01/29/24 14:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 14:55	1
Cyclohexane	ND		1.0		ug/L			01/29/24 14:55	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 14:55	1
Dibromomethane	ND		1.0		ug/L			01/29/24 14:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 14:55	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 14:55	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 14:55	1
Ethyl ether	ND		1.0		ug/L			01/29/24 14:55	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 14:55	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 14:55	1
Hexane	ND		10		ug/L			01/29/24 14:55	1
Iodomethane	ND		1.0		ug/L			01/29/24 14:55	1
Isobutanol	ND	+	25		ug/L			01/29/24 14:55	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 14:55	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 14:55	1
Methyl acetate	ND		2.5		ug/L			01/29/24 14:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 14:55	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 14:55	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 14:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 14:55	1
Naphthalene	ND		1.0		ug/L			01/29/24 14:55	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 14:55	1
o-Xylene	ND		1.0		ug/L			01/29/24 14:55	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 14:55	1
p-Cymene	ND		1.0		ug/L			01/29/24 14:55	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
Styrene	ND		1.0		ug/L			01/29/24 14:55	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 14:55	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 14:55	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 14:55	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 14:55	1
Toluene	ND		1.0		ug/L			01/29/24 14:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 14:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 14:55	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 14:55	1
Trichloroethene	ND		1.0		ug/L			01/29/24 14:55	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 14:55	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 14:55	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 14:55	1

Eurofins Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 14:55	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	97		77 - 120					01/29/24 14:55	1
4-Bromofluorobenzene (Surr)	96		73 - 120					01/29/24 14:55	1
Toluene-d8 (Surr)	96		80 - 120					01/29/24 14:55	1

Client Sample ID: SW-1-240117

Date Collected: 01/17/24 10:55

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 15:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 15:17	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 15:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 15:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 15:17	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 15:17	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 15:17	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 15:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 15:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 15:17	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 15:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 15:17	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 15:17	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 15:17	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 15:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 15:17	1
1,4-Dioxane	ND	+	40		ug/L			01/29/24 15:17	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 15:17	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 15:17	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 15:17	1
2-Hexanone	ND		5.0		ug/L			01/29/24 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 15:17	1
Acetone	ND		10		ug/L			01/29/24 15:17	1
Acetonitrile	ND		15		ug/L			01/29/24 15:17	1
Acrolein	ND		20		ug/L			01/29/24 15:17	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 15:17	1
Benzene	ND		1.0		ug/L			01/29/24 15:17	1
Bromobenzene	ND		1.0		ug/L			01/29/24 15:17	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 15:17	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 15:17	1
Bromoform	ND		1.0		ug/L			01/29/24 15:17	1
Bromomethane	ND		1.0		ug/L			01/29/24 15:17	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 15:17	1
Butyl alcohol, tert-	ND	+	10		ug/L			01/29/24 15:17	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-1-240117

Date Collected: 01/17/24 10:55

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0		ug/L			01/29/24 15:17	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 15:17	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 15:17	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 15:17	1
Chloroethane	ND		1.0		ug/L			01/29/24 15:17	1
Chloroform	ND		1.0		ug/L			01/29/24 15:17	1
Chloromethane	ND		1.0		ug/L			01/29/24 15:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 15:17	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 15:17	1
Cyclohexane	ND		1.0		ug/L			01/29/24 15:17	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 15:17	1
Dibromomethane	ND		1.0		ug/L			01/29/24 15:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 15:17	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 15:17	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 15:17	1
Ethyl ether	ND		1.0		ug/L			01/29/24 15:17	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 15:17	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 15:17	1
Hexane	ND		10		ug/L			01/29/24 15:17	1
Iodomethane	ND		1.0		ug/L			01/29/24 15:17	1
Isobutanol	ND	*+	25		ug/L			01/29/24 15:17	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 15:17	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 15:17	1
Methyl acetate	ND		2.5		ug/L			01/29/24 15:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 15:17	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 15:17	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 15:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 15:17	1
Naphthalene	ND		1.0		ug/L			01/29/24 15:17	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 15:17	1
o-Xylene	ND		1.0		ug/L			01/29/24 15:17	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 15:17	1
p-Cymene	ND		1.0		ug/L			01/29/24 15:17	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
Styrene	ND		1.0		ug/L			01/29/24 15:17	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 15:17	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 15:17	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 15:17	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 15:17	1
Toluene	ND		1.0		ug/L			01/29/24 15:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 15:17	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 15:17	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 15:17	1
Trichloroethene	ND		1.0		ug/L			01/29/24 15:17	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 15:17	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-1-240117

Date Collected: 01/17/24 10:55

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		5.0		ug/L			01/29/24 15:17	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 15:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		01/29/24 15:17	1
4-Bromofluorobenzene (Surr)	96		73 - 120		01/29/24 15:17	1
Toluene-d8 (Surr)	96		80 - 120		01/29/24 15:17	1

Client Sample ID: SW-4-240117

Date Collected: 01/17/24 11:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 15:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 15:40	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 15:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 15:40	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 15:40	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 15:40	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 15:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 15:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 15:40	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 15:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 15:40	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 15:40	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 15:40	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 15:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 15:40	1
1,4-Dioxane	ND	+	40		ug/L			01/29/24 15:40	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 15:40	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 15:40	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 15:40	1
2-Hexanone	ND		5.0		ug/L			01/29/24 15:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 15:40	1
Acetone	ND		10		ug/L			01/29/24 15:40	1
Acetonitrile	ND		15		ug/L			01/29/24 15:40	1
Acrolein	ND		20		ug/L			01/29/24 15:40	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 15:40	1
Benzene	ND		1.0		ug/L			01/29/24 15:40	1
Bromobenzene	ND		1.0		ug/L			01/29/24 15:40	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-4-240117

Date Collected: 01/17/24 11:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.0		ug/L			01/29/24 15:40	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 15:40	1
Bromoform	ND		1.0		ug/L			01/29/24 15:40	1
Bromomethane	ND		1.0		ug/L			01/29/24 15:40	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 15:40	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 15:40	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 15:40	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 15:40	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 15:40	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 15:40	1
Chloroethane	ND		1.0		ug/L			01/29/24 15:40	1
Chloroform	ND		1.0		ug/L			01/29/24 15:40	1
Chloromethane	ND		1.0		ug/L			01/29/24 15:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 15:40	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 15:40	1
Cyclohexane	ND		1.0		ug/L			01/29/24 15:40	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 15:40	1
Dibromomethane	ND		1.0		ug/L			01/29/24 15:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 15:40	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 15:40	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 15:40	1
Ethyl ether	ND		1.0		ug/L			01/29/24 15:40	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 15:40	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 15:40	1
Hexane	ND		10		ug/L			01/29/24 15:40	1
Iodomethane	ND		1.0		ug/L			01/29/24 15:40	1
Isobutanol	ND	*+	25		ug/L			01/29/24 15:40	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 15:40	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 15:40	1
Methyl acetate	ND		2.5		ug/L			01/29/24 15:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 15:40	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 15:40	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 15:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 15:40	1
Naphthalene	ND		1.0		ug/L			01/29/24 15:40	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 15:40	1
o-Xylene	ND		1.0		ug/L			01/29/24 15:40	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 15:40	1
p-Cymene	ND		1.0		ug/L			01/29/24 15:40	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
Styrene	ND		1.0		ug/L			01/29/24 15:40	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 15:40	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 15:40	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 15:40	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 15:40	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-4-240117

Date Collected: 01/17/24 11:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			01/29/24 15:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 15:40	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 15:40	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 15:40	1
Trichloroethene	ND		1.0		ug/L			01/29/24 15:40	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 15:40	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 15:40	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 15:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		01/29/24 15:40	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/29/24 15:40	1
Toluene-d8 (Surr)	97		80 - 120		01/29/24 15:40	1

Client Sample ID: SW-6-240117

Date Collected: 01/17/24 12:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 16:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 16:03	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 16:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 16:03	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 16:03	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 16:03	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 16:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 16:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 16:03	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 16:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 16:03	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 16:03	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 16:03	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 16:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:03	1
1,4-Dioxane	ND	+	40		ug/L			01/29/24 16:03	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 16:03	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 16:03	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 16:03	1
2-Hexanone	ND		5.0		ug/L			01/29/24 16:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 16:03	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-6-240117
Date Collected: 01/17/24 12:45
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			01/29/24 16:03	1
Acetonitrile	ND		15		ug/L			01/29/24 16:03	1
Acrolein	ND		20		ug/L			01/29/24 16:03	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 16:03	1
Benzene	ND		1.0		ug/L			01/29/24 16:03	1
Bromobenzene	ND		1.0		ug/L			01/29/24 16:03	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 16:03	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 16:03	1
Bromoform	ND		1.0		ug/L			01/29/24 16:03	1
Bromomethane	ND		1.0		ug/L			01/29/24 16:03	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 16:03	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 16:03	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 16:03	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 16:03	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 16:03	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 16:03	1
Chloroethane	ND		1.0		ug/L			01/29/24 16:03	1
Chloroform	ND		1.0		ug/L			01/29/24 16:03	1
Chloromethane	ND		1.0		ug/L			01/29/24 16:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 16:03	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 16:03	1
Cyclohexane	ND		1.0		ug/L			01/29/24 16:03	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 16:03	1
Dibromomethane	ND		1.0		ug/L			01/29/24 16:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 16:03	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 16:03	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 16:03	1
Ethyl ether	ND		1.0		ug/L			01/29/24 16:03	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 16:03	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 16:03	1
Hexane	ND		10		ug/L			01/29/24 16:03	1
Iodomethane	ND		1.0		ug/L			01/29/24 16:03	1
Isobutanol	ND	*+	25		ug/L			01/29/24 16:03	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 16:03	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 16:03	1
Methyl acetate	ND		2.5		ug/L			01/29/24 16:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 16:03	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 16:03	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 16:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 16:03	1
Naphthalene	ND		1.0		ug/L			01/29/24 16:03	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 16:03	1
o-Xylene	ND		1.0		ug/L			01/29/24 16:03	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 16:03	1
p-Cymene	ND		1.0		ug/L			01/29/24 16:03	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-6-240117

Date Collected: 01/17/24 12:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
Styrene	ND		1.0		ug/L			01/29/24 16:03	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 16:03	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 16:03	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 16:03	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 16:03	1
Toluene	ND		1.0		ug/L			01/29/24 16:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 16:03	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 16:03	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 16:03	1
Trichloroethene	ND		1.0		ug/L			01/29/24 16:03	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 16:03	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 16:03	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 16:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/29/24 16:03	1
4-Bromofluorobenzene (Surr)	98		73 - 120		01/29/24 16:03	1
Toluene-d8 (Surr)	97		80 - 120		01/29/24 16:03	1

Client Sample ID: SW-7-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 16:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 16:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 16:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 16:26	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 16:26	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 16:26	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 16:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 16:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 16:26	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 16:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:26	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 16:26	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 16:26	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 16:26	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:26	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 16:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:26	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-7-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 16:26	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 16:26	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 16:26	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 16:26	1
2-Hexanone	ND		5.0		ug/L			01/29/24 16:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 16:26	1
Acetone	ND		10		ug/L			01/29/24 16:26	1
Acetonitrile	ND		15		ug/L			01/29/24 16:26	1
Acrolein	ND		20		ug/L			01/29/24 16:26	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 16:26	1
Benzene	ND		1.0		ug/L			01/29/24 16:26	1
Bromobenzene	ND		1.0		ug/L			01/29/24 16:26	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 16:26	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 16:26	1
Bromoform	ND		1.0		ug/L			01/29/24 16:26	1
Bromomethane	ND		1.0		ug/L			01/29/24 16:26	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 16:26	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 16:26	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 16:26	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 16:26	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 16:26	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 16:26	1
Chloroethane	ND		1.0		ug/L			01/29/24 16:26	1
Chloroform	ND		1.0		ug/L			01/29/24 16:26	1
Chloromethane	ND		1.0		ug/L			01/29/24 16:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 16:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 16:26	1
Cyclohexane	ND		1.0		ug/L			01/29/24 16:26	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 16:26	1
Dibromomethane	ND		1.0		ug/L			01/29/24 16:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 16:26	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 16:26	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 16:26	1
Ethyl ether	ND		1.0		ug/L			01/29/24 16:26	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 16:26	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 16:26	1
Hexane	ND		10		ug/L			01/29/24 16:26	1
Iodomethane	ND		1.0		ug/L			01/29/24 16:26	1
Isobutanol	ND	*+	25		ug/L			01/29/24 16:26	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 16:26	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 16:26	1
Methyl acetate	ND		2.5		ug/L			01/29/24 16:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 16:26	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 16:26	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 16:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 16:26	1
Naphthalene	ND		1.0		ug/L			01/29/24 16:26	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: SW-7-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 16:26	1
o-Xylene	ND		1.0		ug/L			01/29/24 16:26	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 16:26	1
p-Cymene	ND		1.0		ug/L			01/29/24 16:26	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
Styrene	ND		1.0		ug/L			01/29/24 16:26	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 16:26	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 16:26	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 16:26	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 16:26	1
Toluene	ND		1.0		ug/L			01/29/24 16:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 16:26	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 16:26	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 16:26	1
Trichloroethene	ND		1.0		ug/L			01/29/24 16:26	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 16:26	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 16:26	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 16:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		01/29/24 16:26	1
4-Bromofluorobenzene (Surr)	95		73 - 120		01/29/24 16:26	1
Toluene-d8 (Surr)	97		80 - 120		01/29/24 16:26	1

Client Sample ID: TB1-240117

Date Collected: 01/17/24 00:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-12

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 16:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 16:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 16:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 16:50	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 16:50	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 16:50	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 16:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 16:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 16:50	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 16:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 16:50	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 16:50	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: TB1-240117
Date Collected: 01/17/24 00:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 16:50	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 16:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 16:50	1
1,4-Dioxane	ND	*+	40		ug/L			01/29/24 16:50	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 16:50	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 16:50	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 16:50	1
2-Hexanone	ND		5.0		ug/L			01/29/24 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 16:50	1
Acetone	ND		10		ug/L			01/29/24 16:50	1
Acetonitrile	ND		15		ug/L			01/29/24 16:50	1
Acrolein	ND		20		ug/L			01/29/24 16:50	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 16:50	1
Benzene	ND		1.0		ug/L			01/29/24 16:50	1
Bromobenzene	ND		1.0		ug/L			01/29/24 16:50	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 16:50	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 16:50	1
Bromoform	ND		1.0		ug/L			01/29/24 16:50	1
Bromomethane	ND		1.0		ug/L			01/29/24 16:50	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 16:50	1
Butyl alcohol, tert-	ND	*+	10		ug/L			01/29/24 16:50	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 16:50	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 16:50	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 16:50	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 16:50	1
Chloroethane	ND		1.0		ug/L			01/29/24 16:50	1
Chloroform	ND		1.0		ug/L			01/29/24 16:50	1
Chloromethane	ND		1.0		ug/L			01/29/24 16:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 16:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 16:50	1
Cyclohexane	ND		1.0		ug/L			01/29/24 16:50	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 16:50	1
Dibromomethane	ND		1.0		ug/L			01/29/24 16:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 16:50	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 16:50	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 16:50	1
Ethyl ether	ND		1.0		ug/L			01/29/24 16:50	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 16:50	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 16:50	1
Hexane	ND		10		ug/L			01/29/24 16:50	1
Iodomethane	ND		1.0		ug/L			01/29/24 16:50	1
Isobutanol	ND	*+	25		ug/L			01/29/24 16:50	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 16:50	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 16:50	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: TB1-240117
Date Collected: 01/17/24 00:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		2.5		ug/L			01/29/24 16:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 16:50	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 16:50	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 16:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 16:50	1
Naphthalene	ND		1.0		ug/L			01/29/24 16:50	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 16:50	1
o-Xylene	ND		1.0		ug/L			01/29/24 16:50	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 16:50	1
p-Cymene	ND		1.0		ug/L			01/29/24 16:50	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
Styrene	ND		1.0		ug/L			01/29/24 16:50	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 16:50	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 16:50	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 16:50	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 16:50	1
Toluene	ND		1.0		ug/L			01/29/24 16:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 16:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 16:50	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 16:50	1
Trichloroethene	ND		1.0		ug/L			01/29/24 16:50	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 16:50	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 16:50	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 16:50	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/29/24 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		01/29/24 16:50	1
4-Bromofluorobenzene (Surr)	95		73 - 120		01/29/24 16:50	1
Toluene-d8 (Surr)	96		80 - 120		01/29/24 16:50	1

Client Sample ID: TB2-240117
Date Collected: 01/17/24 00:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/30/24 13:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/30/24 13:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/30/24 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/30/24 13:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/30/24 13:07	1
1,1-Dichloroethane	ND		1.0		ug/L			01/30/24 13:07	1
1,1-Dichloroethene	ND		1.0		ug/L			01/30/24 13:07	1
1,1-Dichloropropene	ND		1.0		ug/L			01/30/24 13:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/30/24 13:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/30/24 13:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/30/24 13:07	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: TB2-240117
Date Collected: 01/17/24 00:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/30/24 13:07	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/30/24 13:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/30/24 13:07	1
1,2-Dichloroethane	ND		1.0		ug/L			01/30/24 13:07	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/30/24 13:07	1
1,2-Dichloropropane	ND		1.0		ug/L			01/30/24 13:07	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/30/24 13:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/30/24 13:07	1
1,3-Dichloropropane	ND		1.0		ug/L			01/30/24 13:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/30/24 13:07	1
1,4-Dioxane	ND		40		ug/L			01/30/24 13:07	1
2,2-Dichloropropane	ND		1.0		ug/L			01/30/24 13:07	1
2-Butanone (MEK)	ND		10		ug/L			01/30/24 13:07	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/30/24 13:07	1
2-Hexanone	ND		5.0		ug/L			01/30/24 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/30/24 13:07	1
Acetone	ND		10		ug/L			01/30/24 13:07	1
Acetonitrile	ND		15		ug/L			01/30/24 13:07	1
Acrolein	ND		20		ug/L			01/30/24 13:07	1
Acrylonitrile	ND		5.0		ug/L			01/30/24 13:07	1
Benzene	ND		1.0		ug/L			01/30/24 13:07	1
Bromobenzene	ND		1.0		ug/L			01/30/24 13:07	1
Bromochloromethane	ND		1.0		ug/L			01/30/24 13:07	1
Bromodichloromethane	ND		1.0		ug/L			01/30/24 13:07	1
Bromoform	ND		1.0		ug/L			01/30/24 13:07	1
Bromomethane	ND		1.0		ug/L			01/30/24 13:07	1
Butyl alcohol, n-	ND		40		ug/L			01/30/24 13:07	1
Butyl alcohol, tert-	ND		10		ug/L			01/30/24 13:07	1
Carbon disulfide	ND		1.0		ug/L			01/30/24 13:07	1
Carbon tetrachloride	ND		1.0		ug/L			01/30/24 13:07	1
Chlorobenzene	ND		1.0		ug/L			01/30/24 13:07	1
Chlorodifluoromethane	ND		1.0		ug/L			01/30/24 13:07	1
Chloroethane	ND		1.0		ug/L			01/30/24 13:07	1
Chloroform	ND		1.0		ug/L			01/30/24 13:07	1
Chloromethane	ND		1.0		ug/L			01/30/24 13:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/30/24 13:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/30/24 13:07	1
Cyclohexane	ND		1.0		ug/L			01/30/24 13:07	1
Dibromochloromethane	ND		1.0		ug/L			01/30/24 13:07	1
Dibromomethane	ND		1.0		ug/L			01/30/24 13:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/30/24 13:07	1
Dichlorofluoromethane	ND		1.0		ug/L			01/30/24 13:07	1
Ethyl acetate	ND		1.0		ug/L			01/30/24 13:07	1
Ethyl ether	ND		1.0		ug/L			01/30/24 13:07	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/30/24 13:07	1
Ethylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
Hexachlorobutadiene	ND		2.0		ug/L			01/30/24 13:07	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Client Sample ID: TB2-240117
Date Collected: 01/17/24 00:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	ND		10		ug/L			01/30/24 13:07	1
Iodomethane	ND		1.0		ug/L			01/30/24 13:07	1
Isobutanol	ND		25		ug/L			01/30/24 13:07	1
Isopropyl ether	ND		1.0		ug/L			01/30/24 13:07	1
Isopropylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
Methacrylonitrile	ND		5.0		ug/L			01/30/24 13:07	1
Methyl acetate	ND		2.5		ug/L			01/30/24 13:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/30/24 13:07	1
Methylcyclohexane	ND		1.0		ug/L			01/30/24 13:07	1
Methylene Chloride	ND		1.0		ug/L			01/30/24 13:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/30/24 13:07	1
Naphthalene	ND		1.0		ug/L			01/30/24 13:07	1
n-Butylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
N-Propylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
o-Chlorotoluene	ND		1.0		ug/L			01/30/24 13:07	1
o-Xylene	ND		1.0		ug/L			01/30/24 13:07	1
p-Chlorotoluene	ND		1.0		ug/L			01/30/24 13:07	1
p-Cymene	ND		1.0		ug/L			01/30/24 13:07	1
sec-Butylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
Styrene	ND		1.0		ug/L			01/30/24 13:07	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/30/24 13:07	1
tert-Butylbenzene	ND		1.0		ug/L			01/30/24 13:07	1
Tetrachloroethene	ND		1.0		ug/L			01/30/24 13:07	1
Tetrahydrofuran	ND		5.0		ug/L			01/30/24 13:07	1
Toluene	ND		1.0		ug/L			01/30/24 13:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/30/24 13:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/30/24 13:07	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/30/24 13:07	1
Trichloroethene	ND		1.0		ug/L			01/30/24 13:07	1
Trichlorofluoromethane	ND		1.0		ug/L			01/30/24 13:07	1
Vinyl acetate	ND		5.0		ug/L			01/30/24 13:07	1
Vinyl chloride	ND		1.0		ug/L			01/30/24 13:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/30/24 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/30/24 13:07	1
4-Bromofluorobenzene (Surr)	108		73 - 120		01/30/24 13:07	1
Toluene-d8 (Surr)	108		80 - 120		01/30/24 13:07	1

Method: SW846 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: MW-5-240117
Date Collected: 01/17/24 12:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		01/23/24 08:32	01/24/24 13:39	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Method: SW846 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: MW-6-240117

Date Collected: 01/17/24 17:35

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	200		1.0		ug/L		01/23/24 08:32	01/24/24 13:57	1

Client Sample ID: MW-7-240117

Date Collected: 01/17/24 09:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.2		1.0		ug/L		01/23/24 08:32	01/24/24 14:01	1

Client Sample ID: MW-12I-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	68		1.0		ug/L		01/23/24 08:32	01/24/24 00:17	1

Client Sample ID: MW-13D-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	11		1.0		ug/L		01/23/24 08:32	01/24/24 14:11	1

Client Sample ID: MW-14-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1200		1.0		ug/L		01/23/24 08:32	01/24/24 00:24	1

Client Sample ID: MW-20DD-240117

Date Collected: 01/17/24 07:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1200		1.0		ug/L		01/23/24 08:32	01/24/24 00:28	1

Client Sample ID: SW-1-240117

Date Collected: 01/17/24 10:55

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		01/23/24 08:32	01/24/24 14:15	1

Client Sample ID: SW-4-240117

Date Collected: 01/17/24 11:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	40		1.0		ug/L		01/23/24 08:32	01/24/24 00:35	1

Client Sample ID: SW-6-240117

Date Collected: 01/17/24 12:45

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	24		1.0		ug/L		01/23/24 08:32	01/24/24 00:39	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Method: SW846 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: SW-7-240117
Date Collected: 01/17/24 14:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.5		1.0		ug/L		01/23/24 08:32	01/24/24 14:18	1

General Chemistry

Client Sample ID: MW-5-240117
Date Collected: 01/17/24 12:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			01/23/24 00:51	1
Sulfate (EPA 300.0)	7.5		5.0		mg/L			01/23/24 00:51	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			01/31/24 16:13	1
Total Alkalinity (SM 2320B)	77		10		mg/L			01/23/24 17:56	1
Bicarbonate Alkalinity (SM 2320B)	77		10		mg/L			01/23/24 17:56	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 17:56	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			01/24/24 02:14	1

Client Sample ID: MW-6-240117
Date Collected: 01/17/24 17:35
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.5		3.0		mg/L			01/23/24 01:02	1
Sulfate (EPA 300.0)	16		5.0		mg/L			01/23/24 01:02	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			02/01/24 15:00	1
Total Alkalinity (SM 2320B)	100		10		mg/L			01/23/24 18:02	1
Bicarbonate Alkalinity (SM 2320B)	100		10		mg/L			01/23/24 18:02	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:02	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			01/24/24 03:01	1

Client Sample ID: MW-7-240117
Date Collected: 01/17/24 09:45
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	ND		3.0		mg/L			01/23/24 01:47	1
Sulfate (EPA 300.0)	5.2		5.0		mg/L			01/23/24 01:47	1
Ammonia as N (EPA 350.1)	0.030		0.030		mg/L			02/01/24 15:52	1
Total Alkalinity (SM 2320B)	130		10		mg/L			01/23/24 18:07	1
Bicarbonate Alkalinity (SM 2320B)	130		10		mg/L			01/23/24 18:07	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:07	1
Total Organic Carbon - Average (SM 5310B)	1.6		1.0		mg/L			01/24/24 03:15	1

Client Sample ID: MW-12I-240117
Date Collected: 01/17/24 14:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	11		3.0		mg/L			01/23/24 02:33	1
Sulfate (EPA 300.0)	11		5.0		mg/L			01/23/24 02:33	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			02/01/24 15:54	1
Total Alkalinity (SM 2320B)	120		10		mg/L			01/23/24 18:13	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

General Chemistry (Continued)

Client Sample ID: MW-12I-240117

Date Collected: 01/17/24 14:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 2320B)	120		10		mg/L			01/23/24 18:13	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:13	1
Total Organic Carbon - Average (SM 5310B)	2.2		1.0		mg/L			01/24/24 03:29	1

Client Sample ID: MW-13D-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	4.4		3.0		mg/L			01/23/24 02:44	1
Sulfate (EPA 300.0)	15		5.0		mg/L			01/23/24 02:44	1
Ammonia as N (EPA 350.1)	0.035		0.030		mg/L			02/01/24 15:32	1
Total Alkalinity (SM 2320B)	72		10		mg/L			01/23/24 18:19	1
Bicarbonate Alkalinity (SM 2320B)	72		10		mg/L			01/23/24 18:19	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:19	1
Total Organic Carbon - Average (SM 5310B)	ND		1.0		mg/L			01/24/24 03:46	1

Client Sample ID: MW-14-240117

Date Collected: 01/17/24 16:10

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.9		3.0		mg/L			01/23/24 03:18	1
Sulfate (EPA 300.0)	9.0		5.0		mg/L			01/23/24 03:18	1
Ammonia as N (EPA 350.1)	0.049		0.030		mg/L			02/01/24 15:34	1
Total Alkalinity (SM 2320B)	89		10		mg/L			01/23/24 18:24	1
Bicarbonate Alkalinity (SM 2320B)	89		10		mg/L			01/23/24 18:24	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:24	1
Total Organic Carbon - Average (SM 5310B)	1.6		1.0		mg/L			01/24/24 04:00	1

Client Sample ID: MW-20DD-240117

Date Collected: 01/17/24 07:00

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.7		3.0		mg/L			01/23/24 03:29	1
Sulfate (EPA 300.0)	8.9		5.0		mg/L			01/23/24 03:29	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			02/01/24 15:37	1
Total Alkalinity (SM 2320B)	87		10		mg/L			01/23/24 18:29	1
Bicarbonate Alkalinity (SM 2320B)	87		10		mg/L			01/23/24 18:29	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:29	1
Total Organic Carbon - Average (SM 5310B)	1.5		1.0		mg/L			01/24/24 04:14	1

Client Sample ID: SW-1-240117

Date Collected: 01/17/24 10:55

Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	4.3		3.0		mg/L			01/23/24 06:30	1
Sulfate (EPA 300.0)	10		5.0		mg/L			01/23/24 06:30	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			02/01/24 15:39	1

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Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

General Chemistry (Continued)

Client Sample ID: SW-1-240117
Date Collected: 01/17/24 10:55
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	73		10		mg/L			01/23/24 18:35	1
Bicarbonate Alkalinity (SM 2320B)	73		10		mg/L			01/23/24 18:35	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:35	1
Total Organic Carbon - Average (SM 5310B)	2.0		1.0		mg/L			01/24/24 04:28	1

Client Sample ID: SW-4-240117
Date Collected: 01/17/24 11:45
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	8.5		3.0		mg/L			01/23/24 06:41	1
Sulfate (EPA 300.0)	18		5.0		mg/L			01/23/24 06:41	1
Ammonia as N (EPA 350.1)	ND		0.030		mg/L			02/01/24 15:41	1
Total Alkalinity (SM 2320B)	130		10		mg/L			01/23/24 18:40	1
Bicarbonate Alkalinity (SM 2320B)	130		10		mg/L			01/23/24 18:40	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:40	1
Total Organic Carbon - Average (SM 5310B)	11		2.0		mg/L			01/24/24 05:16	2

Client Sample ID: SW-6-240117
Date Collected: 01/17/24 12:45
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.7		3.0		mg/L			01/23/24 06:52	1
Sulfate (EPA 300.0)	6.0		5.0		mg/L			01/23/24 06:52	1
Ammonia as N (EPA 350.1)	0.068		0.030		mg/L			01/26/24 14:23	1
Total Alkalinity (SM 2320B)	44		10		mg/L			01/23/24 18:46	1
Bicarbonate Alkalinity (SM 2320B)	44		10		mg/L			01/23/24 18:46	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 18:46	1
Total Organic Carbon - Average (SM 5310B)	23		2.0		mg/L			01/24/24 05:31	2

Client Sample ID: SW-7-240117
Date Collected: 01/17/24 14:00
Date Received: 01/22/24 09:40

Lab Sample ID: 280-186819-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.6		3.0		mg/L			01/23/24 07:04	1
Sulfate (EPA 300.0)	8.8		5.0		mg/L			01/23/24 07:04	1
Ammonia as N (EPA 350.1)	0.055		0.030		mg/L			01/26/24 14:25	1
Total Alkalinity (SM 2320B)	60		10		mg/L			01/23/24 19:37	1
Bicarbonate Alkalinity (SM 2320B)	60		10		mg/L			01/23/24 19:37	1
Carbonate Alkalinity (SM 2320B)	ND		10		mg/L			01/23/24 19:37	1
Total Organic Carbon - Average (SM 5310B)	10		2.0		mg/L			01/24/24 07:35	2

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Surrogate Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DCA (77-120)	BFB (73-120)	TOL (80-120)
280-186819-1	MW-5-240117	101	99	99
280-186819-2	MW-6-240117	98	94	96
280-186819-3	MW-7-240117	97	97	97
280-186819-4	MW-12I-240117	96	98	96
280-186819-5	MW-13D-240117	100	99	97
280-186819-6	MW-14-240117	99	93	96
280-186819-7	MW-20DD-240117	97	96	96
280-186819-8	SW-1-240117	104	96	96
280-186819-9	SW-4-240117	103	99	97
280-186819-10	SW-6-240117	100	98	97
280-186819-11	SW-7-240117	104	95	97
280-186819-12	TB1-240117	98	95	96
280-186819-13	TB2-240117	101	108	108
480-216707-D-2 MS	Matrix Spike	107	103	111
480-216707-D-2 MSD	Matrix Spike Duplicate	106	100	107
LCS 480-699186/6	Lab Control Sample	95	100	101
LCS 480-699343/7	Lab Control Sample	102	104	109
MB 480-699186/8	Method Blank	98	99	97
MB 480-699343/10	Method Blank	98	100	102

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DBFM (50-150)	TBA (50-150)
280-186819-1	MW-5-240117	113	122
280-186819-2	MW-6-240117	111	104
280-186819-3	MW-7-240117	113	98
280-186819-4	MW-12I-240117	112	107
280-186819-5	MW-13D-240117	115	108
280-186819-6	MW-14-240117	113	98
280-186819-7	MW-20DD-240117	112	104
280-186819-8	SW-1-240117	116	101
280-186819-9	SW-4-240117	116	95
280-186819-10	SW-6-240117	116	94
280-186819-11	SW-7-240117	115	90
280-186819-12	TB1-240117	115	99
280-186819-13	TB2-240117	115	93
LCS 480-699155/6	Lab Control Sample	102	100
LCSD 480-699155/7	Lab Control Sample Dup	101	99
MB 480-699155/9	Method Blank	112	112

Surrogate Legend

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

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 480-699186/8

Matrix: Water

Analysis Batch: 699186

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			01/29/24 11:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/29/24 11:48	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/29/24 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/29/24 11:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/29/24 11:48	1
1,1-Dichloroethane	ND		1.0		ug/L			01/29/24 11:48	1
1,1-Dichloroethene	ND		1.0		ug/L			01/29/24 11:48	1
1,1-Dichloropropene	ND		1.0		ug/L			01/29/24 11:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/29/24 11:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/29/24 11:48	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/29/24 11:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,2-Dichloroethane	ND		1.0		ug/L			01/29/24 11:48	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/29/24 11:48	1
1,2-Dichloropropane	ND		1.0		ug/L			01/29/24 11:48	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,3-Dichloropropane	ND		1.0		ug/L			01/29/24 11:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/29/24 11:48	1
1,4-Dioxane	ND		40		ug/L			01/29/24 11:48	1
2,2-Dichloropropane	ND		1.0		ug/L			01/29/24 11:48	1
2-Butanone (MEK)	ND		10		ug/L			01/29/24 11:48	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/29/24 11:48	1
2-Hexanone	ND		5.0		ug/L			01/29/24 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/29/24 11:48	1
Acetone	ND		10		ug/L			01/29/24 11:48	1
Acetonitrile	ND		15		ug/L			01/29/24 11:48	1
Acrolein	ND		20		ug/L			01/29/24 11:48	1
Acrylonitrile	ND		5.0		ug/L			01/29/24 11:48	1
Benzene	ND		1.0		ug/L			01/29/24 11:48	1
Bromobenzene	ND		1.0		ug/L			01/29/24 11:48	1
Bromochloromethane	ND		1.0		ug/L			01/29/24 11:48	1
Bromodichloromethane	ND		1.0		ug/L			01/29/24 11:48	1
Bromoform	ND		1.0		ug/L			01/29/24 11:48	1
Bromomethane	ND		1.0		ug/L			01/29/24 11:48	1
Butyl alcohol, n-	ND		40		ug/L			01/29/24 11:48	1
Butyl alcohol, tert-	ND		10		ug/L			01/29/24 11:48	1
Carbon disulfide	ND		1.0		ug/L			01/29/24 11:48	1
Carbon tetrachloride	ND		1.0		ug/L			01/29/24 11:48	1
Chlorobenzene	ND		1.0		ug/L			01/29/24 11:48	1
Chlorodifluoromethane	ND		1.0		ug/L			01/29/24 11:48	1
Chloroethane	ND		1.0		ug/L			01/29/24 11:48	1
Chloroform	ND		1.0		ug/L			01/29/24 11:48	1
Chloromethane	ND		1.0		ug/L			01/29/24 11:48	1

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 480-699186/8

Matrix: Water

Analysis Batch: 699186

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			01/29/24 11:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 11:48	1
Cyclohexane	ND		1.0		ug/L			01/29/24 11:48	1
Dibromochloromethane	ND		1.0		ug/L			01/29/24 11:48	1
Dibromomethane	ND		1.0		ug/L			01/29/24 11:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/29/24 11:48	1
Dichlorofluoromethane	ND		1.0		ug/L			01/29/24 11:48	1
Ethyl acetate	ND		1.0		ug/L			01/29/24 11:48	1
Ethyl ether	ND		1.0		ug/L			01/29/24 11:48	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/29/24 11:48	1
Ethylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
Hexachlorobutadiene	ND		2.0		ug/L			01/29/24 11:48	1
Hexane	ND		10		ug/L			01/29/24 11:48	1
Iodomethane	ND		1.0		ug/L			01/29/24 11:48	1
Isobutanol	ND		25		ug/L			01/29/24 11:48	1
Isopropyl ether	ND		1.0		ug/L			01/29/24 11:48	1
Isopropylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
Methacrylonitrile	ND		5.0		ug/L			01/29/24 11:48	1
Methyl acetate	ND		2.5		ug/L			01/29/24 11:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/29/24 11:48	1
Methylcyclohexane	ND		1.0		ug/L			01/29/24 11:48	1
Methylene Chloride	ND		1.0		ug/L			01/29/24 11:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/29/24 11:48	1
Naphthalene	ND		1.0		ug/L			01/29/24 11:48	1
n-Butylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
N-Propylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
o-Chlorotoluene	ND		1.0		ug/L			01/29/24 11:48	1
o-Xylene	ND		1.0		ug/L			01/29/24 11:48	1
p-Chlorotoluene	ND		1.0		ug/L			01/29/24 11:48	1
p-Cymene	ND		1.0		ug/L			01/29/24 11:48	1
sec-Butylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
Styrene	ND		1.0		ug/L			01/29/24 11:48	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/29/24 11:48	1
tert-Butylbenzene	ND		1.0		ug/L			01/29/24 11:48	1
Tetrachloroethene	ND		1.0		ug/L			01/29/24 11:48	1
Tetrahydrofuran	ND		5.0		ug/L			01/29/24 11:48	1
Toluene	ND		1.0		ug/L			01/29/24 11:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/29/24 11:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/29/24 11:48	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/29/24 11:48	1
Trichloroethene	ND		1.0		ug/L			01/29/24 11:48	1
Trichlorofluoromethane	ND		1.0		ug/L			01/29/24 11:48	1
Vinyl acetate	ND		5.0		ug/L			01/29/24 11:48	1
Vinyl chloride	ND		1.0		ug/L			01/29/24 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		01/29/24 11:48	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/29/24 11:48	1

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 480-699186/8

Matrix: Water

Analysis Batch: 699186

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		01/29/24 11:48	1

Lab Sample ID: LCS 480-699186/6

Matrix: Water

Analysis Batch: 699186

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	27.4		ug/L		110	80 - 120
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.8		ug/L		87	61 - 148
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	23.7		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	20.9		ug/L		84	66 - 127
1,1-Dichloropropene	25.0	24.2		ug/L		97	72 - 122
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		98	75 - 123
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	68 - 122
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	25.0	26.6		ug/L		106	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	56 - 134
1,2-Dibromoethane (EDB)	25.0	23.4		ug/L		94	77 - 120
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	22.3		ug/L		89	75 - 120
1,2-Dichloroethene, Total	50.0	46.4		ug/L		93	72 - 124
1,2-Dichloropropane	25.0	23.6		ug/L		94	76 - 120
1,3,5-Trimethylbenzene	25.0	26.2		ug/L		105	77 - 121
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 120
1,3-Dichloropropane	25.0	23.9		ug/L		96	75 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 120
1,4-Dioxane	500	921	*+	ug/L		184	50 - 150
2,2-Dichloropropane	25.0	25.4		ug/L		102	63 - 136
2-Butanone (MEK)	125	137		ug/L		110	57 - 140
2-Chloroethyl vinyl ether	25.0	23.4		ug/L		94	70 - 129
2-Hexanone	125	133		ug/L		106	65 - 127
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	71 - 125
Acetone	125	143		ug/L		114	56 - 142
Acrolein	125	76.6		ug/L		61	52 - 143
Acrylonitrile	250	237		ug/L		95	63 - 125
Benzene	25.0	23.2		ug/L		93	71 - 124
Bromobenzene	25.0	23.8		ug/L		95	78 - 120
Bromochloromethane	25.0	21.2		ug/L		85	72 - 130
Bromodichloromethane	25.0	24.6		ug/L		98	80 - 122
Bromoform	25.0	30.2		ug/L		121	61 - 132
Bromomethane	25.0	21.1		ug/L		84	55 - 144
Butyl alcohol, tert-	250	398	*+	ug/L		159	75 - 125
Carbon disulfide	25.0	21.2		ug/L		85	59 - 134
Carbon tetrachloride	25.0	26.1		ug/L		104	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: LCS 480-699186/6

Matrix: Water

Analysis Batch: 699186

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	21.4		ug/L		86	69 - 136
Chloroform	25.0	22.7		ug/L		91	73 - 127
Chloromethane	25.0	25.5		ug/L		102	68 - 124
cis-1,2-Dichloroethene	25.0	23.1		ug/L		92	74 - 124
cis-1,3-Dichloropropene	25.0	24.0		ug/L		96	74 - 124
Cyclohexane	25.0	24.4		ug/L		98	59 - 135
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125
Dibromomethane	25.0	22.0		ug/L		88	76 - 127
Dichlorodifluoromethane	25.0	20.9		ug/L		84	59 - 135
Dichlorofluoromethane	25.0	23.0		ug/L		92	76 - 127
Ethyl ether	25.0	22.1		ug/L		88	76 - 123
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Hexachlorobutadiene	25.0	25.7		ug/L		103	68 - 131
Hexane	25.0	23.7		ug/L		95	54 - 146
Iodomethane	25.0	20.0		ug/L		80	78 - 123
Isobutanol	625	1130	*+	ug/L		180	51 - 150
Isopropylbenzene	25.0	26.3		ug/L		105	77 - 122
Methyl acetate	50.0	45.9		ug/L		92	74 - 133
Methyl tert-butyl ether	25.0	21.5		ug/L		86	77 - 120
Methylcyclohexane	25.0	22.7		ug/L		91	68 - 134
Methylene Chloride	25.0	21.7		ug/L		87	75 - 124
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	76 - 122
Naphthalene	25.0	23.7		ug/L		95	66 - 125
n-Butylbenzene	25.0	27.9		ug/L		112	71 - 128
N-Propylbenzene	25.0	26.8		ug/L		107	75 - 127
o-Chlorotoluene	25.0	26.3		ug/L		105	76 - 121
o-Xylene	25.0	24.4		ug/L		98	76 - 122
p-Chlorotoluene	25.0	25.9		ug/L		104	77 - 121
p-Cymene	25.0	26.4		ug/L		106	73 - 120
sec-Butylbenzene	25.0	26.8		ug/L		107	74 - 127
Styrene	25.0	25.4		ug/L		102	80 - 120
tert-Butylbenzene	25.0	26.1		ug/L		104	75 - 123
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
Tetrahydrofuran	50.0	47.4		ug/L		95	62 - 132
Toluene	25.0	24.6		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	21.7		ug/L		87	80 - 120
trans-1,4-Dichloro-2-butene	25.0	24.8		ug/L		99	41 - 131
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	20.8		ug/L		83	62 - 150
Vinyl acetate	50.0	50.1		ug/L		100	50 - 144
Vinyl chloride	25.0	23.7		ug/L		95	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	101		80 - 120

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 480-699343/10

Matrix: Water

Analysis Batch: 699343

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			01/30/24 12:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/30/24 12:42	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/30/24 12:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/30/24 12:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/30/24 12:42	1
1,1-Dichloroethane	ND		1.0		ug/L			01/30/24 12:42	1
1,1-Dichloroethene	ND		1.0		ug/L			01/30/24 12:42	1
1,1-Dichloropropene	ND		1.0		ug/L			01/30/24 12:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/30/24 12:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/30/24 12:42	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/30/24 12:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,2-Dichloroethane	ND		1.0		ug/L			01/30/24 12:42	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/30/24 12:42	1
1,2-Dichloropropane	ND		1.0		ug/L			01/30/24 12:42	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,3-Dichloropropane	ND		1.0		ug/L			01/30/24 12:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/30/24 12:42	1
1,4-Dioxane	ND		40		ug/L			01/30/24 12:42	1
2,2-Dichloropropane	ND		1.0		ug/L			01/30/24 12:42	1
2-Butanone (MEK)	ND		10		ug/L			01/30/24 12:42	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/30/24 12:42	1
2-Hexanone	ND		5.0		ug/L			01/30/24 12:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/30/24 12:42	1
Acetone	ND		10		ug/L			01/30/24 12:42	1
Acetonitrile	ND		15		ug/L			01/30/24 12:42	1
Acrolein	ND		20		ug/L			01/30/24 12:42	1
Acrylonitrile	ND		5.0		ug/L			01/30/24 12:42	1
Benzene	ND		1.0		ug/L			01/30/24 12:42	1
Bromobenzene	ND		1.0		ug/L			01/30/24 12:42	1
Bromochloromethane	ND		1.0		ug/L			01/30/24 12:42	1
Bromodichloromethane	ND		1.0		ug/L			01/30/24 12:42	1
Bromoform	ND		1.0		ug/L			01/30/24 12:42	1
Bromomethane	ND		1.0		ug/L			01/30/24 12:42	1
Butyl alcohol, n-	ND		40		ug/L			01/30/24 12:42	1
Butyl alcohol, tert-	ND		10		ug/L			01/30/24 12:42	1
Carbon disulfide	ND		1.0		ug/L			01/30/24 12:42	1
Carbon tetrachloride	ND		1.0		ug/L			01/30/24 12:42	1
Chlorobenzene	ND		1.0		ug/L			01/30/24 12:42	1
Chlorodifluoromethane	ND		1.0		ug/L			01/30/24 12:42	1
Chloroethane	ND		1.0		ug/L			01/30/24 12:42	1
Chloroform	ND		1.0		ug/L			01/30/24 12:42	1
Chloromethane	ND		1.0		ug/L			01/30/24 12:42	1

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 480-699343/10

Matrix: Water

Analysis Batch: 699343

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			01/30/24 12:42	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/30/24 12:42	1
Cyclohexane	ND		1.0		ug/L			01/30/24 12:42	1
Dibromochloromethane	ND		1.0		ug/L			01/30/24 12:42	1
Dibromomethane	ND		1.0		ug/L			01/30/24 12:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/30/24 12:42	1
Dichlorofluoromethane	ND		1.0		ug/L			01/30/24 12:42	1
Ethyl acetate	ND		1.0		ug/L			01/30/24 12:42	1
Ethyl ether	ND		1.0		ug/L			01/30/24 12:42	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/30/24 12:42	1
Ethylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
Hexachlorobutadiene	ND		2.0		ug/L			01/30/24 12:42	1
Hexane	ND		10		ug/L			01/30/24 12:42	1
Iodomethane	ND		1.0		ug/L			01/30/24 12:42	1
Isobutanol	ND		25		ug/L			01/30/24 12:42	1
Isopropyl ether	ND		1.0		ug/L			01/30/24 12:42	1
Isopropylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
Methacrylonitrile	ND		5.0		ug/L			01/30/24 12:42	1
Methyl acetate	ND		2.5		ug/L			01/30/24 12:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/30/24 12:42	1
Methylcyclohexane	ND		1.0		ug/L			01/30/24 12:42	1
Methylene Chloride	ND		1.0		ug/L			01/30/24 12:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/30/24 12:42	1
Naphthalene	ND		1.0		ug/L			01/30/24 12:42	1
n-Butylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
N-Propylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
o-Chlorotoluene	ND		1.0		ug/L			01/30/24 12:42	1
o-Xylene	ND		1.0		ug/L			01/30/24 12:42	1
p-Chlorotoluene	ND		1.0		ug/L			01/30/24 12:42	1
p-Cymene	ND		1.0		ug/L			01/30/24 12:42	1
sec-Butylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
Styrene	ND		1.0		ug/L			01/30/24 12:42	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/30/24 12:42	1
tert-Butylbenzene	ND		1.0		ug/L			01/30/24 12:42	1
Tetrachloroethene	ND		1.0		ug/L			01/30/24 12:42	1
Tetrahydrofuran	ND		5.0		ug/L			01/30/24 12:42	1
Toluene	ND		1.0		ug/L			01/30/24 12:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/30/24 12:42	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/30/24 12:42	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/30/24 12:42	1
Trichloroethene	ND		1.0		ug/L			01/30/24 12:42	1
Trichlorofluoromethane	ND		1.0		ug/L			01/30/24 12:42	1
Vinyl acetate	ND		5.0		ug/L			01/30/24 12:42	1
Vinyl chloride	ND		1.0		ug/L			01/30/24 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		01/30/24 12:42	1
4-Bromofluorobenzene (Surr)	100		73 - 120		01/30/24 12:42	1

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 480-699343/10

Matrix: Water

Analysis Batch: 699343

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		01/30/24 12:42	1

Lab Sample ID: LCS 480-699343/7

Matrix: Water

Analysis Batch: 699343

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	27.4		ug/L		110	80 - 120
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L		107	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.1		ug/L		100	61 - 148
1,1,2-Trichloroethane	25.0	25.6		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	24.8		ug/L		99	66 - 127
1,1-Dichloropropene	25.0	24.4		ug/L		98	72 - 122
1,2,3-Trichlorobenzene	25.0	27.0		ug/L		108	75 - 123
1,2,3-Trichloropropane	25.0	27.3		ug/L		109	68 - 122
1,2,4-Trichlorobenzene	25.0	27.5		ug/L		110	79 - 122
1,2,4-Trimethylbenzene	25.0	28.1		ug/L		113	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	28.2		ug/L		113	56 - 134
1,2-Dibromoethane (EDB)	25.0	26.1		ug/L		104	77 - 120
1,2-Dichlorobenzene	25.0	27.1		ug/L		109	80 - 124
1,2-Dichloroethane	25.0	22.8		ug/L		91	75 - 120
1,2-Dichloroethene, Total	50.0	48.2		ug/L		96	72 - 124
1,2-Dichloropropane	25.0	24.0		ug/L		96	76 - 120
1,3,5-Trimethylbenzene	25.0	28.5		ug/L		114	77 - 121
1,3-Dichlorobenzene	25.0	27.1		ug/L		109	77 - 120
1,3-Dichloropropane	25.0	25.8		ug/L		103	75 - 120
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	80 - 120
1,4-Dioxane	500	464		ug/L		93	50 - 150
2,2-Dichloropropane	25.0	24.4		ug/L		97	63 - 136
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Chloroethyl vinyl ether	25.0	23.9		ug/L		95	70 - 129
2-Hexanone	125	119		ug/L		95	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	103		ug/L		82	56 - 142
Acrolein	125	103		ug/L		83	52 - 143
Acrylonitrile	250	218		ug/L		87	63 - 125
Benzene	25.0	23.5		ug/L		94	71 - 124
Bromobenzene	25.0	27.2		ug/L		109	78 - 120
Bromochloromethane	25.0	24.5		ug/L		98	72 - 130
Bromodichloromethane	25.0	24.3		ug/L		97	80 - 122
Bromoform	25.0	28.6		ug/L		114	61 - 132
Bromomethane	25.0	21.8		ug/L		87	55 - 144
Butyl alcohol, tert-	250	225		ug/L		90	75 - 125
Carbon disulfide	25.0	22.9		ug/L		91	59 - 134
Carbon tetrachloride	25.0	25.8		ug/L		103	72 - 134
Chlorobenzene	25.0	25.9		ug/L		104	80 - 120

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: LCS 480-699343/7

Matrix: Water

Analysis Batch: 699343

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	23.3		ug/L		93	69 - 136
Chloroform	25.0	22.9		ug/L		92	73 - 127
Chloromethane	25.0	21.3		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124
Cyclohexane	25.0	24.3		ug/L		97	59 - 135
Dibromochloromethane	25.0	28.4		ug/L		114	75 - 125
Dibromomethane	25.0	23.5		ug/L		94	76 - 127
Dichlorodifluoromethane	25.0	22.1		ug/L		88	59 - 135
Dichlorofluoromethane	25.0	24.5		ug/L		98	76 - 127
Ethyl ether	25.0	21.5		ug/L		86	76 - 123
Ethylbenzene	25.0	26.2		ug/L		105	77 - 123
Hexachlorobutadiene	25.0	28.6		ug/L		114	68 - 131
Hexane	25.0	24.8		ug/L		99	54 - 146
Iodomethane	25.0	23.8		ug/L		95	78 - 123
Isobutanol	625	538		ug/L		86	51 - 150
Isopropylbenzene	25.0	28.7		ug/L		115	77 - 122
Methyl acetate	50.0	42.7		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	22.7		ug/L		91	77 - 120
Methylcyclohexane	25.0	25.1		ug/L		101	68 - 134
Methylene Chloride	25.0	23.0		ug/L		92	75 - 124
m-Xylene & p-Xylene	25.0	26.4		ug/L		106	76 - 122
Naphthalene	25.0	26.5		ug/L		106	66 - 125
n-Butylbenzene	25.0	29.6		ug/L		118	71 - 128
N-Propylbenzene	25.0	28.6		ug/L		114	75 - 127
o-Chlorotoluene	25.0	28.4		ug/L		114	76 - 121
o-Xylene	25.0	26.4		ug/L		105	76 - 122
p-Chlorotoluene	25.0	27.4		ug/L		110	77 - 121
p-Cymene	25.0	29.3		ug/L		117	73 - 120
sec-Butylbenzene	25.0	29.3		ug/L		117	74 - 127
Styrene	25.0	26.0		ug/L		104	80 - 120
tert-Butylbenzene	25.0	29.4		ug/L		118	75 - 123
Tetrachloroethene	25.0	27.6		ug/L		110	74 - 122
Tetrahydrofuran	50.0	41.5		ug/L		83	62 - 132
Toluene	25.0	26.0		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	27.9		ug/L		112	80 - 120
trans-1,4-Dichloro-2-butene	25.0	28.2		ug/L		113	41 - 131
Trichloroethene	25.0	24.5		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	25.7		ug/L		103	62 - 150
Vinyl acetate	50.0	47.3		ug/L		95	50 - 144
Vinyl chloride	25.0	24.6		ug/L		98	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	109		80 - 120

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: 480-216707-D-2 MS

Matrix: Water

Analysis Batch: 699343

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-Trichloroethane	ND		250	217		ug/L		87	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	250		ug/L		100	76 - 120
1,1,2-Trichloroethane	ND		250	239		ug/L		96	76 - 122
1,1-Dichloroethane	ND		250	218		ug/L		87	77 - 120
1,1-Dichloroethene	ND		250	212		ug/L		85	66 - 127
1,2-Dibromo-3-Chloropropane	ND		250	260		ug/L		104	56 - 134
1,2-Dichloroethane	ND		250	215		ug/L		86	75 - 120
1,2-Dichloroethene, Total	ND		500	427		ug/L		85	72 - 124
1,2-Dichloropropane	ND		250	224		ug/L		89	76 - 120
2-Butanone (MEK)	ND		1250	991		ug/L		79	57 - 140
2-Hexanone	ND		1250	1150		ug/L		92	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	1140		ug/L		91	71 - 125
Acetone	ND		1250	815		ug/L		65	56 - 142
Benzene	ND		250	217		ug/L		84	71 - 124
Bromodichloromethane	ND		250	221		ug/L		88	80 - 122
Bromoform	ND		250	252		ug/L		101	61 - 132
Bromomethane	ND		250	211		ug/L		84	55 - 144
Carbon disulfide	ND		250	181		ug/L		72	59 - 134
Carbon tetrachloride	ND		250	221		ug/L		89	72 - 134
Chlorobenzene	410	F1	250	587	F1	ug/L		70	80 - 120
Chloroethane	ND		250	226		ug/L		90	69 - 136
Chloroform	ND		250	208		ug/L		83	73 - 127
Chloromethane	ND		250	200		ug/L		80	68 - 124
cis-1,2-Dichloroethene	ND		250	216		ug/L		86	74 - 124
cis-1,3-Dichloropropene	ND		250	221		ug/L		88	74 - 124
Dibromochloromethane	ND		250	250		ug/L		100	75 - 125
Ethylbenzene	ND		250	229		ug/L		91	77 - 123
Methylene Chloride	ND		250	212		ug/L		85	75 - 124
m-Xylene & p-Xylene	ND		250	234		ug/L		94	76 - 122
o-Xylene	ND		250	234		ug/L		94	76 - 122
Styrene	ND		250	233		ug/L		93	80 - 120
Tetrachloroethene	ND		250	236		ug/L		94	74 - 122
Toluene	ND		250	229		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		250	211		ug/L		84	73 - 127
trans-1,3-Dichloropropene	ND		250	244		ug/L		98	80 - 120
Trichloroethene	ND		250	214		ug/L		86	74 - 123
Vinyl acetate	ND		500	466		ug/L		93	50 - 144
Vinyl chloride	ND		250	227		ug/L		91	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	111		80 - 120

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: 480-216707-D-2 MSD

Matrix: Water

Analysis Batch: 699343

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-Trichloroethane	ND		250	224		ug/L		90	73 - 126	3	15
1,1,2,2-Tetrachloroethane	ND		250	237		ug/L		95	76 - 120	5	15
1,1,2-Trichloroethane	ND		250	235		ug/L		94	76 - 122	2	15
1,1-Dichloroethane	ND		250	221		ug/L		88	77 - 120	1	20
1,1-Dichloroethene	ND		250	219		ug/L		88	66 - 127	3	16
1,2-Dibromo-3-Chloropropane	ND		250	245		ug/L		98	56 - 134	6	15
1,2-Dichloroethane	ND		250	217		ug/L		87	75 - 120	1	20
1,2-Dichloroethene, Total	ND		500	439		ug/L		88	72 - 124	3	20
1,2-Dichloropropane	ND		250	227		ug/L		91	76 - 120	2	20
2-Butanone (MEK)	ND		1250	990		ug/L		79	57 - 140	0	20
2-Hexanone	ND		1250	1120		ug/L		90	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1120		ug/L		89	71 - 125	2	35
Acetone	ND		1250	816		ug/L		65	56 - 142	0	15
Benzene	ND		250	223		ug/L		86	71 - 124	3	13
Bromodichloromethane	ND		250	223		ug/L		89	80 - 122	1	15
Bromoform	ND		250	249		ug/L		100	61 - 132	1	15
Bromomethane	ND		250	218		ug/L		87	55 - 144	3	15
Carbon disulfide	ND		250	190		ug/L		76	59 - 134	5	15
Carbon tetrachloride	ND		250	229		ug/L		92	72 - 134	4	15
Chlorobenzene	410	F1	250	584	F1	ug/L		69	80 - 120	0	25
Chloroethane	ND		250	235		ug/L		94	69 - 136	4	15
Chloroform	ND		250	212		ug/L		85	73 - 127	2	20
Chloromethane	ND		250	198		ug/L		79	68 - 124	1	15
cis-1,2-Dichloroethene	ND		250	222		ug/L		89	74 - 124	3	15
cis-1,3-Dichloropropene	ND		250	227		ug/L		91	74 - 124	3	15
Dibromochloromethane	ND		250	248		ug/L		99	75 - 125	1	15
Ethylbenzene	ND		250	230		ug/L		92	77 - 123	1	15
Methylene Chloride	ND		250	219		ug/L		87	75 - 124	3	15
m-Xylene & p-Xylene	ND		250	232		ug/L		93	76 - 122	1	16
o-Xylene	ND		250	233		ug/L		93	76 - 122	1	16
Styrene	ND		250	232		ug/L		93	80 - 120	0	20
Tetrachloroethene	ND		250	236		ug/L		95	74 - 122	0	20
Toluene	ND		250	230		ug/L		92	80 - 122	0	15
trans-1,2-Dichloroethene	ND		250	217		ug/L		87	73 - 127	3	20
trans-1,3-Dichloropropene	ND		250	243		ug/L		97	80 - 120	0	15
Trichloroethene	ND		250	223		ug/L		89	74 - 123	4	16
Vinyl acetate	ND		500	467		ug/L		93	50 - 144	0	23
Vinyl chloride	ND		250	234		ug/L		94	65 - 133	3	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	107		80 - 120

Eurofins Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 480-699155/9

Matrix: Water

Analysis Batch: 699155

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			01/26/24 20:28	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		50 - 150					01/26/24 20:28	1
TBA-d9 (Surr)	112		50 - 150					01/26/24 20:28	1

Lab Sample ID: LCS 480-699155/6

Matrix: Water

Analysis Batch: 699155

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	0.218		ug/L		109	50 - 150		
Surrogate	%Recovery	LCS Qualifier	Limits						
Dibromofluoromethane (Surr)	102		50 - 150						
TBA-d9 (Surr)	100		50 - 150						

Lab Sample ID: LCSD 480-699155/7

Matrix: Water

Analysis Batch: 699155

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	0.220		ug/L		110	50 - 150	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
Dibromofluoromethane (Surr)	101		50 - 150						
TBA-d9 (Surr)	99		50 - 150						

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-640672/1-A

Matrix: Water

Analysis Batch: 640975

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 640672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		01/23/24 08:32	01/24/24 13:32	1

Lab Sample ID: LCS 280-640672/2-A

Matrix: Water

Analysis Batch: 640975

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 640672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese	40.0	42.8		ug/L		107	85 - 117		

Eurofins Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: 280-186819-1 MS

Matrix: Water

Analysis Batch: 640975

Client Sample ID: MW-5-240117

Prep Type: Dissolved

Prep Batch: 640672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	ND		40.0	40.8		ug/L		102	85 - 117

Lab Sample ID: 280-186819-1 MSD

Matrix: Water

Analysis Batch: 640975

Client Sample ID: MW-5-240117

Prep Type: Dissolved

Prep Batch: 640672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Manganese	ND		40.0	40.9		ug/L		102	85 - 117	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-640634/46

Matrix: Water

Analysis Batch: 640634

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			01/23/24 01:36	1
Sulfate	ND		5.0		mg/L			01/23/24 01:36	1

Lab Sample ID: MB 280-640634/6

Matrix: Water

Analysis Batch: 640634

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			01/22/24 14:32	1
Sulfate	ND		5.0		mg/L			01/22/24 14:32	1

Lab Sample ID: LCS 280-640634/4

Matrix: Water

Analysis Batch: 640634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	93.5		mg/L		94	90 - 110
Sulfate	100	95.4		mg/L		95	90 - 110

Lab Sample ID: LCS 280-640634/44

Matrix: Water

Analysis Batch: 640634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	95.3		mg/L		95	90 - 110
Sulfate	100	96.8		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-640634/45

Matrix: Water

Analysis Batch: 640634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	100	95.3		mg/L		95	90 - 110	0	10
Sulfate	100	96.9		mg/L		97	90 - 110	0	10

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-640634/5

Matrix: Water

Analysis Batch: 640634

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	93.6		mg/L		94	90 - 110	0	10
Sulfate	100	94.9		mg/L		95	90 - 110	1	10

Lab Sample ID: MRL 280-640634/3

Matrix: Water

Analysis Batch: 640634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.00	4.22		mg/L		84	50 - 150		
Sulfate	5.00	4.63	J	mg/L		93	50 - 150		

Lab Sample ID: 280-186819-3 MS

Matrix: Water

Analysis Batch: 640634

Client Sample ID: MW-7-240117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	47.8		mg/L		92	80 - 120		
Sulfate	5.2		50.0	55.2		mg/L		100	80 - 120		

Lab Sample ID: 280-186819-3 MSD

Matrix: Water

Analysis Batch: 640634

Client Sample ID: MW-7-240117

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	47.8		mg/L		93	80 - 120	0	20
Sulfate	5.2		50.0	55.3		mg/L		100	80 - 120	0	20

Lab Sample ID: 280-186819-3 DU

Matrix: Water

Analysis Batch: 640634

Client Sample ID: MW-7-240117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND			ND		mg/L				NC	15
Sulfate	5.2			5.25		mg/L				0.5	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-641187/54

Matrix: Water

Analysis Batch: 641187

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			01/26/24 12:54	1

Lab Sample ID: LCS 280-641187/55

Matrix: Water

Analysis Batch: 641187

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.55		mg/L		102	90 - 110		

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 280-641187/56

Matrix: Water

Analysis Batch: 641187

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	2.49		mg/L		100	90 - 110	2	10

Lab Sample ID: MB 280-641611/19

Matrix: Water

Analysis Batch: 641611

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			01/31/24 16:07	1

Lab Sample ID: LCS 280-641611/20

Matrix: Water

Analysis Batch: 641611

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	2.48		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-641611/21

Matrix: Water

Analysis Batch: 641611

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	2.49		mg/L		100	90 - 110	1	10

Lab Sample ID: 280-186819-1 MS

Matrix: Water

Analysis Batch: 641611

Client Sample ID: MW-5-240117

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	0.993		mg/L		99	90 - 110

Lab Sample ID: 280-186819-1 MSD

Matrix: Water

Analysis Batch: 641611

Client Sample ID: MW-5-240117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.01		mg/L		101	90 - 110	1	10

Lab Sample ID: MB 280-641801/132

Matrix: Water

Analysis Batch: 641801

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			02/01/24 15:17	1

Lab Sample ID: MB 280-641801/94

Matrix: Water

Analysis Batch: 641801

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			02/01/24 13:55	1

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 280-641801/133

Matrix: Water

Analysis Batch: 641801

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	2.54		mg/L		102	90 - 110

Lab Sample ID: LCS 280-641801/95

Matrix: Water

Analysis Batch: 641801

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	2.55		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-641801/134

Matrix: Water

Analysis Batch: 641801

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	2.56		mg/L		102	90 - 110	1	10

Lab Sample ID: LCSD 280-641801/96

Matrix: Water

Analysis Batch: 641801

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	2.58		mg/L		103	90 - 110	1	10

Lab Sample ID: 280-186819-2 MS

Matrix: Water

Analysis Batch: 641801

Client Sample ID: MW-6-240117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	ND		1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: 280-186819-2 MSD

Matrix: Water

Analysis Batch: 641801

Client Sample ID: MW-6-240117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	1.07		mg/L		107	90 - 110	2	10

Lab Sample ID: 280-186376-G-5 MS

Matrix: Water

Analysis Batch: 641187

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	1.6		1.00	2.58		mg/L		101	90 - 110

Lab Sample ID: 280-186376-G-5 MSD

Matrix: Water

Analysis Batch: 641187

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	1.6		1.00	2.61		mg/L		104	90 - 110	1	10

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-640894/31

Matrix: Water

Analysis Batch: 640894

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			01/23/24 19:11	1
Bicarbonate Alkalinity	ND		10		mg/L			01/23/24 19:11	1
Carbonate Alkalinity	ND		10		mg/L			01/23/24 19:11	1

Lab Sample ID: MB 280-640894/5

Matrix: Water

Analysis Batch: 640894

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			01/23/24 16:18	1
Bicarbonate Alkalinity	ND		10		mg/L			01/23/24 16:18	1
Carbonate Alkalinity	ND		10		mg/L			01/23/24 16:18	1

Lab Sample ID: LCS 280-640894/30

Matrix: Water

Analysis Batch: 640894

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	205		mg/L		102	89 - 110

Lab Sample ID: LCS 280-640894/4

Matrix: Water

Analysis Batch: 640894

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	209		mg/L		104	89 - 110

Lab Sample ID: 280-186762-B-1 DU

Matrix: Water

Analysis Batch: 640894

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	680		688		mg/L		0.4	10
Bicarbonate Alkalinity	680		688		mg/L		0.4	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

Lab Sample ID: 280-186825-A-2 DU

Matrix: Water

Analysis Batch: 640894

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	220		221		mg/L		1	10
Bicarbonate Alkalinity	220		221		mg/L		1	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

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

Lab Sample ID: MB 280-640886/35
Matrix: Water
Analysis Batch: 640886

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			01/23/24 21:36	1

Lab Sample ID: LCS 280-640886/34
Matrix: Water
Analysis Batch: 640886

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	25.7		mg/L		103	88 - 112

Lab Sample ID: 280-186819-1 MS
Matrix: Water
Analysis Batch: 640886

Client Sample ID: MW-5-240117
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	26.5		mg/L		105	88 - 112

Lab Sample ID: 280-186819-1 MSD
Matrix: Water
Analysis Batch: 640886

Client Sample ID: MW-5-240117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	26.3		mg/L		104	88 - 112	1	15

QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

GC/MS VOA

Analysis Batch: 699155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Total/NA	Water	8260C SIM	
280-186819-2	MW-6-240117	Total/NA	Water	8260C SIM	
280-186819-3	MW-7-240117	Total/NA	Water	8260C SIM	
280-186819-4	MW-12I-240117	Total/NA	Water	8260C SIM	
280-186819-5	MW-13D-240117	Total/NA	Water	8260C SIM	
280-186819-6	MW-14-240117	Total/NA	Water	8260C SIM	
280-186819-7	MW-20DD-240117	Total/NA	Water	8260C SIM	
280-186819-8	SW-1-240117	Total/NA	Water	8260C SIM	
280-186819-9	SW-4-240117	Total/NA	Water	8260C SIM	
280-186819-10	SW-6-240117	Total/NA	Water	8260C SIM	
280-186819-11	SW-7-240117	Total/NA	Water	8260C SIM	
280-186819-12	TB1-240117	Total/NA	Water	8260C SIM	
280-186819-13	TB2-240117	Total/NA	Water	8260C SIM	
MB 480-699155/9	Method Blank	Total/NA	Water	8260C SIM	
LCS 480-699155/6	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 480-699155/7	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 699186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Total/NA	Water	8260C	
280-186819-2	MW-6-240117	Total/NA	Water	8260C	
280-186819-3	MW-7-240117	Total/NA	Water	8260C	
280-186819-4	MW-12I-240117	Total/NA	Water	8260C	
280-186819-5	MW-13D-240117	Total/NA	Water	8260C	
280-186819-6	MW-14-240117	Total/NA	Water	8260C	
280-186819-7	MW-20DD-240117	Total/NA	Water	8260C	
280-186819-8	SW-1-240117	Total/NA	Water	8260C	
280-186819-9	SW-4-240117	Total/NA	Water	8260C	
280-186819-10	SW-6-240117	Total/NA	Water	8260C	
280-186819-11	SW-7-240117	Total/NA	Water	8260C	
280-186819-12	TB1-240117	Total/NA	Water	8260C	
MB 480-699186/8	Method Blank	Total/NA	Water	8260C	
LCS 480-699186/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 699343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-13	TB2-240117	Total/NA	Water	8260C	
MB 480-699343/10	Method Blank	Total/NA	Water	8260C	
LCS 480-699343/7	Lab Control Sample	Total/NA	Water	8260C	
480-216707-D-2 MS	Matrix Spike	Total/NA	Water	8260C	
480-216707-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Metals

Prep Batch: 640672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Dissolved	Water	3005A	
280-186819-2	MW-6-240117	Dissolved	Water	3005A	
280-186819-3	MW-7-240117	Dissolved	Water	3005A	
280-186819-4	MW-12I-240117	Dissolved	Water	3005A	
280-186819-5	MW-13D-240117	Dissolved	Water	3005A	

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QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Metals (Continued)

Prep Batch: 640672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-6	MW-14-240117	Dissolved	Water	3005A	
280-186819-7	MW-20DD-240117	Dissolved	Water	3005A	
280-186819-8	SW-1-240117	Dissolved	Water	3005A	
280-186819-9	SW-4-240117	Dissolved	Water	3005A	
280-186819-10	SW-6-240117	Dissolved	Water	3005A	
280-186819-11	SW-7-240117	Dissolved	Water	3005A	
MB 280-640672/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-640672/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-186819-1 MS	MW-5-240117	Dissolved	Water	3005A	
280-186819-1 MSD	MW-5-240117	Dissolved	Water	3005A	

Analysis Batch: 640862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-4	MW-12I-240117	Dissolved	Water	6020	640672
280-186819-6	MW-14-240117	Dissolved	Water	6020	640672
280-186819-7	MW-20DD-240117	Dissolved	Water	6020	640672
280-186819-9	SW-4-240117	Dissolved	Water	6020	640672
280-186819-10	SW-6-240117	Dissolved	Water	6020	640672

Analysis Batch: 640975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Dissolved	Water	6020	640672
280-186819-2	MW-6-240117	Dissolved	Water	6020	640672
280-186819-3	MW-7-240117	Dissolved	Water	6020	640672
280-186819-5	MW-13D-240117	Dissolved	Water	6020	640672
280-186819-8	SW-1-240117	Dissolved	Water	6020	640672
280-186819-11	SW-7-240117	Dissolved	Water	6020	640672
MB 280-640672/1-A	Method Blank	Total Recoverable	Water	6020	640672
LCS 280-640672/2-A	Lab Control Sample	Total Recoverable	Water	6020	640672
280-186819-1 MS	MW-5-240117	Dissolved	Water	6020	640672
280-186819-1 MSD	MW-5-240117	Dissolved	Water	6020	640672

General Chemistry

Analysis Batch: 640634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Total/NA	Water	300.0	
280-186819-2	MW-6-240117	Total/NA	Water	300.0	
280-186819-3	MW-7-240117	Total/NA	Water	300.0	
280-186819-4	MW-12I-240117	Total/NA	Water	300.0	
280-186819-5	MW-13D-240117	Total/NA	Water	300.0	
280-186819-6	MW-14-240117	Total/NA	Water	300.0	
280-186819-7	MW-20DD-240117	Total/NA	Water	300.0	
280-186819-8	SW-1-240117	Total/NA	Water	300.0	
280-186819-9	SW-4-240117	Total/NA	Water	300.0	
280-186819-10	SW-6-240117	Total/NA	Water	300.0	
280-186819-11	SW-7-240117	Total/NA	Water	300.0	
MB 280-640634/46	Method Blank	Total/NA	Water	300.0	
MB 280-640634/6	Method Blank	Total/NA	Water	300.0	
LCS 280-640634/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-640634/44	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

General Chemistry (Continued)

Analysis Batch: 640634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-640634/45	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-640634/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-640634/3	Lab Control Sample	Total/NA	Water	300.0	
280-186819-3 MS	MW-7-240117	Total/NA	Water	300.0	
280-186819-3 MSD	MW-7-240117	Total/NA	Water	300.0	
280-186819-3 DU	MW-7-240117	Total/NA	Water	300.0	

Analysis Batch: 640886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Total/NA	Water	SM 5310B	
280-186819-2	MW-6-240117	Total/NA	Water	SM 5310B	
280-186819-3	MW-7-240117	Total/NA	Water	SM 5310B	
280-186819-4	MW-12I-240117	Total/NA	Water	SM 5310B	
280-186819-5	MW-13D-240117	Total/NA	Water	SM 5310B	
280-186819-6	MW-14-240117	Total/NA	Water	SM 5310B	
280-186819-7	MW-20DD-240117	Total/NA	Water	SM 5310B	
280-186819-8	SW-1-240117	Total/NA	Water	SM 5310B	
280-186819-9	SW-4-240117	Total/NA	Water	SM 5310B	
280-186819-10	SW-6-240117	Total/NA	Water	SM 5310B	
280-186819-11	SW-7-240117	Total/NA	Water	SM 5310B	
MB 280-640886/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-640886/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-186819-1 MS	MW-5-240117	Total/NA	Water	SM 5310B	
280-186819-1 MSD	MW-5-240117	Total/NA	Water	SM 5310B	

Analysis Batch: 640894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Total/NA	Water	SM 2320B	
280-186819-2	MW-6-240117	Total/NA	Water	SM 2320B	
280-186819-3	MW-7-240117	Total/NA	Water	SM 2320B	
280-186819-4	MW-12I-240117	Total/NA	Water	SM 2320B	
280-186819-5	MW-13D-240117	Total/NA	Water	SM 2320B	
280-186819-6	MW-14-240117	Total/NA	Water	SM 2320B	
280-186819-7	MW-20DD-240117	Total/NA	Water	SM 2320B	
280-186819-8	SW-1-240117	Total/NA	Water	SM 2320B	
280-186819-9	SW-4-240117	Total/NA	Water	SM 2320B	
280-186819-10	SW-6-240117	Total/NA	Water	SM 2320B	
280-186819-11	SW-7-240117	Total/NA	Water	SM 2320B	
MB 280-640894/31	Method Blank	Total/NA	Water	SM 2320B	
MB 280-640894/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-640894/30	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-640894/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-186762-B-1 DU	Duplicate	Total/NA	Water	SM 2320B	
280-186825-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 641187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-10	SW-6-240117	Total/NA	Water	350.1	
280-186819-11	SW-7-240117	Total/NA	Water	350.1	
MB 280-641187/54	Method Blank	Total/NA	Water	350.1	
LCS 280-641187/55	Lab Control Sample	Total/NA	Water	350.1	

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QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

General Chemistry (Continued)

Analysis Batch: 641187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-641187/56	Lab Control Sample Dup	Total/NA	Water	350.1	
280-186376-G-5 MS	Matrix Spike	Dissolved	Water	350.1	
280-186376-G-5 MSD	Matrix Spike Duplicate	Dissolved	Water	350.1	

Analysis Batch: 641611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-1	MW-5-240117	Total/NA	Water	350.1	
MB 280-641611/19	Method Blank	Total/NA	Water	350.1	
LCS 280-641611/20	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-641611/21	Lab Control Sample Dup	Total/NA	Water	350.1	
280-186819-1 MS	MW-5-240117	Total/NA	Water	350.1	
280-186819-1 MSD	MW-5-240117	Total/NA	Water	350.1	

Analysis Batch: 641801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186819-2	MW-6-240117	Total/NA	Water	350.1	
280-186819-3	MW-7-240117	Total/NA	Water	350.1	
280-186819-4	MW-12I-240117	Total/NA	Water	350.1	
280-186819-5	MW-13D-240117	Total/NA	Water	350.1	
280-186819-6	MW-14-240117	Total/NA	Water	350.1	
280-186819-7	MW-20DD-240117	Total/NA	Water	350.1	
280-186819-8	SW-1-240117	Total/NA	Water	350.1	
280-186819-9	SW-4-240117	Total/NA	Water	350.1	
MB 280-641801/132	Method Blank	Total/NA	Water	350.1	
MB 280-641801/94	Method Blank	Total/NA	Water	350.1	
LCS 280-641801/133	Lab Control Sample	Total/NA	Water	350.1	
LCS 280-641801/95	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-641801/134	Lab Control Sample Dup	Total/NA	Water	350.1	
LCSD 280-641801/96	Lab Control Sample Dup	Total/NA	Water	350.1	
280-186819-2 MS	MW-6-240117	Total/NA	Water	350.1	
280-186819-2 MSD	MW-6-240117	Total/NA	Water	350.1	

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Client Sample ID: MW-5-240117

Lab Sample ID: 280-186819-1

Date Collected: 01/17/24 12:00

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 12:36	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 20:51	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640975	01/24/24 13:39	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 00:51	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641611	01/31/24 16:13	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 17:56	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 02:14	ABW	EET DEN

Client Sample ID: MW-6-240117

Lab Sample ID: 280-186819-2

Date Collected: 01/17/24 17:35

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 12:59	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 21:15	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640975	01/24/24 13:57	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 01:02	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:00	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:02	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 03:01	ABW	EET DEN

Client Sample ID: MW-7-240117

Lab Sample ID: 280-186819-3

Date Collected: 01/17/24 09:45

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 13:22	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 21:39	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640975	01/24/24 14:01	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 01:47	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:52	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:07	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 03:15	ABW	EET DEN

Client Sample ID: MW-12I-240117

Lab Sample ID: 280-186819-4

Date Collected: 01/17/24 14:00

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 13:45	LCH	EET BUF

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Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Client Sample ID: MW-12I-240117

Lab Sample ID: 280-186819-4

Date Collected: 01/17/24 14:00

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 22:03	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640862	01/24/24 00:17	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 02:33	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:54	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:13	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 03:29	ABW	EET DEN

Client Sample ID: MW-13D-240117

Lab Sample ID: 280-186819-5

Date Collected: 01/17/24 16:10

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 14:09	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 22:27	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640975	01/24/24 14:11	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 02:44	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:32	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:19	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 03:46	ABW	EET DEN

Client Sample ID: MW-14-240117

Lab Sample ID: 280-186819-6

Date Collected: 01/17/24 16:10

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 14:32	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 22:51	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640862	01/24/24 00:24	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 03:18	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:34	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:24	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 04:00	ABW	EET DEN

Client Sample ID: MW-20DD-240117

Lab Sample ID: 280-186819-7

Date Collected: 01/17/24 07:00

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 14:55	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 23:14	CDC	EET BUF

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Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Client Sample ID: MW-20DD-240117

Lab Sample ID: 280-186819-7

Date Collected: 01/17/24 07:00

Matrix: Water

Date Received: 01/22/24 09:40

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	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640862	01/24/24 00:28	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 03:29	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:37	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:29	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 04:14	ABW	EET DEN

Client Sample ID: SW-1-240117

Lab Sample ID: 280-186819-8

Date Collected: 01/17/24 10:55

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 15:17	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/26/24 23:38	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640975	01/24/24 14:15	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 06:30	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:39	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:35	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	640886	01/24/24 04:28	ABW	EET DEN

Client Sample ID: SW-4-240117

Lab Sample ID: 280-186819-9

Date Collected: 01/17/24 11:45

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 15:40	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/27/24 00:02	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640862	01/24/24 00:35	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 06:41	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641801	02/01/24 15:41	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:40	LL	EET DEN
Total/NA	Analysis	SM 5310B		2	20 mL	20 mL	640886	01/24/24 05:16	ABW	EET DEN

Client Sample ID: SW-6-240117

Lab Sample ID: 280-186819-10

Date Collected: 01/17/24 12:45

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 16:03	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/27/24 00:25	CDC	EET BUF

Eurofins Denver

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-186819-1

Client Sample ID: SW-6-240117

Lab Sample ID: 280-186819-10

Date Collected: 01/17/24 12:45

Matrix: Water

Date Received: 01/22/24 09:40

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	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640862	01/24/24 00:39	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 06:52	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641187	01/26/24 14:23	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 18:46	LL	EET DEN
Total/NA	Analysis	SM 5310B		2	20 mL	20 mL	640886	01/24/24 05:31	ABW	EET DEN

Client Sample ID: SW-7-240117

Lab Sample ID: 280-186819-11

Date Collected: 01/17/24 14:00

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 16:26	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/27/24 00:50	CDC	EET BUF
Dissolved	Prep	3005A			50 mL	50 mL	640672	01/23/24 08:32	MSM	EET DEN
Dissolved	Analysis	6020		1			640975	01/24/24 14:18	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640634	01/23/24 07:04	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	641187	01/26/24 14:25	LBR	EET DEN
Total/NA	Analysis	SM 2320B		1			640894	01/23/24 19:37	LL	EET DEN
Total/NA	Analysis	SM 5310B		2	20 mL	20 mL	640886	01/24/24 07:35	ABW	EET DEN

Client Sample ID: TB1-240117

Lab Sample ID: 280-186819-12

Date Collected: 01/17/24 00:00

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699186	01/29/24 16:50	LCH	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/27/24 01:13	CDC	EET BUF

Client Sample ID: TB2-240117

Lab Sample ID: 280-186819-13

Date Collected: 01/17/24 00:00

Matrix: Water

Date Received: 01/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	699343	01/30/24 13:07	CC	EET BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	699155	01/27/24 01:37	CDC	EET BUF

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

SC0056 = Analytical Resources, Inc, 4611 South 134th Place, Suite 100, Tukwila, WA 98168, TEL (206)695-6200

Eurofins Denver



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

16 February 2024

Janice Collins
Eurofins - Test America - Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Hansville Landfill (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)
24A0372

Associated SDG ID(s)
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

Shelly Fishel, Project Manager

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.





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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5-240117	24A0372-01	Water	17-Jan-2024 12:00	18-Jan-2024 13:06
MW-6-240117	24A0372-02	Water	17-Jan-2024 17:35	18-Jan-2024 13:06
MW-7-240117	24A0372-03	Water	17-Jan-2024 09:45	18-Jan-2024 13:06
MW-12I-240117	24A0372-04	Water	17-Jan-2024 14:00	18-Jan-2024 13:06
MW-13D-240117	24A0372-05	Water	17-Jan-2024 16:10	18-Jan-2024 13:06
MW-14-240117	24A0372-06	Water	17-Jan-2024 16:10	18-Jan-2024 13:06
MW-20DD-240117	24A0372-07	Water	17-Jan-2024 07:00	18-Jan-2024 13:06
SW-1-240117	24A0372-08	Water	17-Jan-2024 10:55	18-Jan-2024 13:06
SW-4-240117	24A0372-09	Water	17-Jan-2024 11:45	18-Jan-2024 13:06
SW-6-240117	24A0372-10	Water	17-Jan-2024 12:45	18-Jan-2024 13:06
SW-7-240117	24A0372-11	Water	17-Jan-2024 14:00	18-Jan-2024 13:06



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

Work Order Case Narrative

Client: Eurofins - Test America - Denver
Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Work Order: 24A0372

Sample receipt

Samples as listed on the preceding page were received 18-Jan-2024 13:06 under ARI work order 24A0372. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Dissolved Metals - EPA Method 200.8

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.

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

24A0372

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 Landfill

Project Number: 28006013-1Q Sampling

Preservation Confirmation

Container ID	Container Type	pH
24A0372-01 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-01 B	HDPE NM, 500 mL	
24A0372-01 C	HDPE NM, 500 mL (FF)	
24A0372-02 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-02 B	HDPE NM, 500 mL	
24A0372-02 C	HDPE NM, 500 mL (FF)	
24A0372-03 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-03 B	HDPE NM, 500 mL	
24A0372-03 C	HDPE NM, 500 mL (FF)	
24A0372-04 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-04 B	HDPE NM, 500 mL	
24A0372-04 C	HDPE NM, 500 mL (FF)	
24A0372-05 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-05 B	HDPE NM, 500 mL	
24A0372-05 C	HDPE NM, 500 mL (FF)	
24A0372-06 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-06 B	HDPE NM, 500 mL	
24A0372-06 C	HDPE NM, 500 mL (FF)	
24A0372-07 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-07 B	HDPE NM, 500 mL	
24A0372-07 C	HDPE NM, 500 mL (FF)	
24A0372-08 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-08 B	HDPE NM, 500 mL	
24A0372-08 C	HDPE NM, 500 mL (FF)	
24A0372-09 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-09 B	HDPE NM, 500 mL	
24A0372-09 C	HDPE NM, 500 mL (FF)	
24A0372-10 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-10 B	HDPE NM, 500 mL	
24A0372-10 C	HDPE NM, 500 mL (FF)	
24A0372-11 A	HDPE NM, 500 mL, 1:1 HNO3 (FF)	L2 pass
24A0372-11 B	HDPE NM, 500 mL	
24A0372-11 C	HDPE NM, 500 mL (FF)	



WORK ORDER

24A0372

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 Landfill

Project Number: 28006013-1Q Sampling

MD

Preservation Confirmed By

01/18/24

Date



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Aspect Consulting

COC No(s): _____ (NA)

Assigned ARI Job No: 24A0372

Project Name: Hansville Landfill

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

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)

Time 1306

0.5

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009728

Cooler Accepted by: KFC

Date: 01/18/24

Time: 1306

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: mp

Date: 01/18/24

Time: 1458

Labels checked by: mp

**** 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
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-5-240117
24A0372-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED
Instrument: ICPMS1 Analyst: HAL

Sampled: 01/17/2024 12:00

Analyzed: 01/27/2024 01:40

Sample Preparation: Preparation Method: REN - EPA 3010A M
Preparation Batch: BMA0658 Sample Size: 25 mL
Prepared: 01/26/2024 Final Volume: 25 mL

Extract ID: 24A0372-01 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.0373	0.200	1.75	ug/L	



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-5-240117
24A0372-01 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 12:00

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 19:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24A0372-01 B

Preparation Batch: BMA0445

Sample Size: 10 mL

Prepared: 01/18/2024

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	3.39	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



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-5-240117
24A0372-01 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 12:00

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:19

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-01 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0370	mg-P/L	



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-6-240117
24A0372-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 17:35

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 00:55

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-02 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	1.92	ug/L	



Eurofins - Test America - Denver
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Arvada CO, 80002

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-6-240117
24A0372-02 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 17:35

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 20:54

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BMA0445
Prepared: 01/18/2024

Sample Size: 10 mL
Final Volume: 10 mL

Extract ID: 24A0372-02 B

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.430	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



Eurofins - Test America - Denver
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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-6-240117
24A0372-02 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 17:35

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:23

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP

Extract ID: 24A0372-02 C

Preparation Batch: BMA0456

Sample Size: 50 mL

Prepared: 01/18/2024

Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0330	mg-P/L	



Eurofins - Test America - Denver
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Arvada CO, 80002

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-7-240117
24A0372-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 09:45

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 00:58

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-03 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	1.49	ug/L	



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-7-240117
24A0372-03 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 09:45

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 21:14

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BMA0445
Prepared: 01/18/2024

Sample Size: 10 mL
Final Volume: 10 mL

Extract ID: 24A0372-03 B

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.576	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



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-7-240117
24A0372-03 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 09:45

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:24

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-03 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0600	mg-P/L	



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-12I-240117
24A0372-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 14:00

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 01:01

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-04 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	2.24	ug/L	



Eurofins - Test America - Denver
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Arvada CO, 80002

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-12I-240117

24A0372-04 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 14:00

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 22:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24A0372-04 B

Preparation Batch: BMA0445

Sample Size: 10 mL

Prepared: 01/18/2024

Final Volume: 10 mL

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



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-12I-240117
24A0372-04 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 14:00

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:25

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-04 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0450	mg-P/L	



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-13D-240117
24A0372-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 16:10

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 01:04

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-05 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	5.05	ug/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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MW-13D-240117

24A0372-05 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 16:10

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 22:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24A0372-05 B

Preparation Batch: BMA0445

Sample Size: 10 mL

Prepared: 01/18/2024

Final Volume: 10 mL

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



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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MW-13D-240117
24A0372-05 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 16:10

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:25

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-05 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0850	mg-P/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

MW-14-240117
24A0372-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 16:10

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 01:08

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-06 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	12.7	ug/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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MW-14-240117
24A0372-06 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 16:10

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 23:14

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BMA0445
Prepared: 01/18/2024

Sample Size: 10 mL
Final Volume: 10 mL

Extract ID: 24A0372-06 B

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.159	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



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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MW-14-240117
24A0372-06 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 16:10

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:27

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-06 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.136	mg-P/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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MW-20DD-240117
24A0372-07 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 07:00

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 01:23

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-07 A 01

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	12.7	ug/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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MW-20DD-240117
24A0372-07 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 07:00

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 23:34

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BMA0445
Prepared: 01/18/2024

Sample Size: 10 mL
Final Volume: 10 mL

Extract ID: 24A0372-07 B

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.148	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



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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MW-20DD-240117
24A0372-07 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 07:00

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:28

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-07 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.187	mg-P/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

SW-1-240117
24A0372-08 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 10:55

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 01:27

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-08 A 01

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	1.45	ug/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

SW-1-240117
24A0372-08 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 10:55

Instrument: IC930 Analyst: CDE

Analyzed: 01/18/2024 23:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24A0372-08 B

Preparation Batch: BMA0445

Sample Size: 10 mL

Prepared: 01/18/2024

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	2.76	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



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

SW-1-240117
24A0372-08 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 10:55

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:28

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-08 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0360	mg-P/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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SW-4-240117
24A0372-09 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 11:45

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/29/2024 19:12

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-09 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	1.49	ug/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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SW-4-240117
24A0372-09 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 11:45

Instrument: IC930 Analyst: CDE

Analyzed: 01/19/2024 00:14

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24A0372-09 B

Preparation Batch: BMA0445

Sample Size: 10 mL

Prepared: 01/18/2024

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.755	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



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Project: Hansville Landfill
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Project Manager: Janice Collins

Reported:
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SW-4-240117
24A0372-09 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 11:45

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:29

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-09 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0220	mg-P/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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SW-6-240117
24A0372-10 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 12:45

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 01:34

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-10 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	1.98	ug/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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SW-6-240117
24A0372-10 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 12:45

Instrument: IC930 Analyst: CDE

Analyzed: 01/19/2024 00:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24A0372-10 B

Preparation Batch: BMA0445

Sample Size: 10 mL

Prepared: 01/18/2024

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	0.128	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



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

SW-6-240117
24A0372-10 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 12:45

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:29

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-10 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0260	mg-P/L	



Eurofins - Test America - Denver
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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

SW-7-240117
24A0372-11 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/17/2024 14:00

Instrument: ICPMS1 Analyst: HAL

Analyzed: 01/27/2024 01:37

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 24A0372-11 A

Preparation Batch: BMA0658

Sample Size: 25 mL

Prepared: 01/26/2024

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	1.21	ug/L	



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
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SW-7-240117
24A0372-11 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/17/2024 14:00

Instrument: IC930 Analyst: CDE

Analyzed: 01/19/2024 00:54

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BMA0445
Prepared: 01/18/2024

Sample Size: 10 mL
Final Volume: 10 mL

Extract ID: 24A0372-11 B

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	1.04	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



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

SW-7-240117
24A0372-11 (Water)

Wet Chemistry

Method: SM 4500-P E-99

Sampled: 01/17/2024 14:00

Instrument: UV1800-1 Analyst: ELM2

Analyzed: 01/18/2024 23:30

Sample Preparation:

Preparation Method: SM 4500-P B-1 SRP
Preparation Batch: BMA0456
Prepared: 01/18/2024

Sample Size: 50 mL
Final Volume: 50 mL

Extract ID: 24A0372-11 C

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-44-42	1	0.0040	0.0040	0.0680	mg-P/L	



Eurofins - Test America - Denver
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Project: Hansville Landfill
Project Number: 28006013-IQ Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BMA0658 - EPA 200.8 UCT-KED

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMA0658-BLK1)						Prepared: 26-Jan-2024 Analyzed: 27-Jan-2024 00:42						
Arsenic, Dissolved	75a	ND	0.0373	0.200	ug/L							U
LCS (BMA0658-BS1)						Prepared: 26-Jan-2024 Analyzed: 27-Jan-2024 00:46						
Arsenic, Dissolved	75a	24.8	0.0373	0.200	ug/L	25.0		99.2	80-120			
Duplicate (BMA0658-DUP1)						Source: 24A0372-01 Prepared: 26-Jan-2024 Analyzed: 27-Jan-2024 01:43						
Arsenic, Dissolved	75a	1.72	0.0373	0.200	ug/L		1.75			1.38	20	
Matrix Spike (BMA0658-MS1)						Source: 24A0372-01 Prepared: 26-Jan-2024 Analyzed: 27-Jan-2024 01:47						
Arsenic, Dissolved	75a	26.8	0.0373	0.200	ug/L	25.0	1.75	100	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMA0445 - EPA 300.0

Instrument: IC930 Analyst: CDE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMA0445-BLK1)						Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 18:54					
Nitrate-N	ND	0.100	0.100	mg/L							U
Nitrite-N	ND	0.100	0.100	mg/L							U
LCS (BMA0445-BS1)						Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 19:14					
Nitrate-N	5.11	0.100	0.100	mg/L	5.00		102	90-110			
Nitrite-N	4.98	0.100	0.100	mg/L	5.00		99.5	90-110			
Duplicate (BMA0445-DUP1)						Source: 24A0372-01 Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 20:14					
Nitrate-N	3.40	0.100	0.100	mg/L		3.39			0.12	20	
Nitrite-N	ND	0.100	0.100	mg/L		ND					U
Matrix Spike (BMA0445-MS1)						Source: 24A0372-01 Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 20:34					
Nitrate-N	5.62	0.100	0.100	mg/L	1.98	3.39	112	75-125			
Nitrite-N	1.79	0.100	0.100	mg/L	2.03	ND	88.3	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



Eurofins - Test America - Denver
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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMA0456 - SM 4500-P E-99

Instrument: UV1800-1 Analyst: ELM2

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMA0456-BLK1)						Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 22:58					
Orthophosphorus	ND	0.0040	0.0040	mg-P/L							U
LCS (BMA0456-BS1)						Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 23:19					
Orthophosphorus	0.156	0.0040	0.0040	mg-P/L	0.150		104	90-110			
Duplicate (BMA0456-DUP1)						Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 23:21					
Orthophosphorus	0.0380	0.0040	0.0040	mg-P/L		0.0370			2.67	20	
Matrix Spike (BMA0456-MS1)						Prepared: 18-Jan-2024 Analyzed: 18-Jan-2024 23:22					
Orthophosphorus	0.130	0.0040	0.0040	mg-P/L	0.101	0.0370	92.5	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



Eurofins - Test America - Denver
4955 Yarrow Street
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Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

Reported:
16-Feb-2024 15:05

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
SM 4500-P E-99 in Water	
Orthophosphorus	WADOE,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



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

Project: Hansville Landfill
Project Number: 28006013-1Q Sampling
Project Manager: Janice Collins

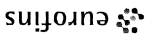
Reported:
16-Feb-2024 15:05

Notes and Definitions

B	This analyte was detected in the method blank.
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.

Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record



Environment Testing

Client Information		Company:		Aspect		Lab PM:		COC No:		Page:		Job #:	
Client Contact: Peter Bannister		Company: Aspect Consulting, LLC		Phone: 404-210-6437		E-Mail: Janice.Collins@eurofinus.com		280-125973-19522.1		State of Origin:		Carrier Tracking Note(s):	
Project Name: Peter Bannister as per us with 4.1.11		Address: 350 Madison Ave N		PO #: 404-210-6437		Field Filtered Sample (Yes or No)		Analysis Requested		Total Number of containers		Special Instructions/Note:	
City: Bainbridge Island		State, Zip: WA, 98110		Purchase Order not required		Perform MS/MSD (Yes or No)		Ortho-phosphate (field filtered) - Direct sub to ARI		Other:		Preservation Codes:	
TAT Requested (days):		Compliance Project: Yes No		Project Name: 28006013 - 1Q Sampling		Matrix		Dissolved Arsenic (field filtered) - Direct sub to ARI		L - EDA		A - HCL	
Due Date Requested:		SSOW #:		Project #/skip sites/events		Sample Type		Nitrate/Nitrite (IC) - Direct sub to ARI		V - pH 4-5		B - NaOH	
Sample Date		Sample Time		Sample Matrix		Sample Preservation Code:		Ortho-phosphate (field filtered) - Direct sub to ARI		U - Acetone		C - AsNaO2	
11/17/24		1200		G		W		Dissolved Arsenic (field filtered) - Direct sub to ARI		T - TSP Dodecahydrate		D - Nitric Acid	
MW-5 - 240117		MW-6 - 240117		MW-7 - 240117		MW-12 I - 240117		MW-13 D - 240117		MW-14 - 240117		P - Na2O4S	
MW-200D - 240117		MW-1 - 240117		MW-4 - 240117		MW-6 - 240117		MW-7 - 240117		MW-10 - 240117		O - AsNaO2	
MW-11 - 240117		MW-12 - 240117		MW-13 - 240117		MW-14 - 240117		MW-15 - 240117		MW-16 - 240117		N - None	
MW-17 - 240117		MW-18 - 240117		MW-19 - 240117		MW-20 - 240117		MW-21 - 240117		MW-22 - 240117		M - Hexane	
MW-23 - 240117		MW-24 - 240117		MW-25 - 240117		MW-26 - 240117		MW-27 - 240117		MW-28 - 240117		S - H2SO4	
MW-29 - 240117		MW-30 - 240117		MW-31 - 240117		MW-32 - 240117		MW-33 - 240117		MW-34 - 240117		R - Na2SO3	
MW-35 - 240117		MW-36 - 240117		MW-37 - 240117		MW-38 - 240117		MW-39 - 240117		MW-40 - 240117		Q - Na2SO3	
MW-41 - 240117		MW-42 - 240117		MW-43 - 240117		MW-44 - 240117		MW-45 - 240117		MW-46 - 240117		G - NaHSO4	
MW-47 - 240117		MW-48 - 240117		MW-49 - 240117		MW-50 - 240117		MW-51 - 240117		MW-52 - 240117		F - MeOH	
MW-53 - 240117		MW-54 - 240117		MW-55 - 240117		MW-56 - 240117		MW-57 - 240117		MW-58 - 240117		E - NaHSO4	
MW-59 - 240117		MW-60 - 240117		MW-61 - 240117		MW-62 - 240117		MW-63 - 240117		MW-64 - 240117		D - Nitric Acid	
MW-65 - 240117		MW-66 - 240117		MW-67 - 240117		MW-68 - 240117		MW-69 - 240117		MW-70 - 240117		C - Zn Acetate	
MW-71 - 240117		MW-72 - 240117		MW-73 - 240117		MW-74 - 240117		MW-75 - 240117		MW-76 - 240117		B - NaOH	
MW-77 - 240117		MW-78 - 240117		MW-79 - 240117		MW-80 - 240117		MW-81 - 240117		MW-82 - 240117		A - HCL	
MW-83 - 240117		MW-84 - 240117		MW-85 - 240117		MW-86 - 240117		MW-87 - 240117		MW-88 - 240117		S - H2SO4	
MW-89 - 240117		MW-90 - 240117		MW-91 - 240117		MW-92 - 240117		MW-93 - 240117		MW-94 - 240117		R - Na2SO3	
MW-95 - 240117		MW-96 - 240117		MW-97 - 240117		MW-98 - 240117		MW-99 - 240117		MW-100 - 240117		Q - Na2SO3	
MW-101 - 240117		MW-102 - 240117		MW-103 - 240117		MW-104 - 240117		MW-105 - 240117		MW-106 - 240117		P - Na2O4S	
MW-107 - 240117		MW-108 - 240117		MW-109 - 240117		MW-110 - 240117		MW-111 - 240117		MW-112 - 240117		O - AsNaO2	
MW-113 - 240117		MW-114 - 240117		MW-115 - 240117		MW-116 - 240117		MW-117 - 240117		MW-118 - 240117		N - None	
MW-119 - 240117		MW-120 - 240117		MW-121 - 240117		MW-122 - 240117		MW-123 - 240117		MW-124 - 240117		M - Hexane	
MW-125 - 240													

1 From
ORDER: 000-18790

DECLARED VALUE
PACKAGE WEIGHT
()

2 To: Shipment will not be accepted if address below is altered.

**SAMPLE RECEIVING
EUROFINS ENVIR TESTING -
4955 YARROW STREET
DENVER
ARVADA CO 80002
(303) 736-0100**



8180 8272 4776

Release Signature
For nonresidential deliveries.

→ Sign within this area. Please do not remove.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

fedex.com 1.800.GoFedEx 1.800.463.3339

M-10091 Rev 3/22

NONREDEEMABLE
Please see back for declared value information and important terms and conditions.

SATURDAY DELIVERY
Shipments tendered on Friday are delivered on Saturday to most locations.



280-186819 Waybill

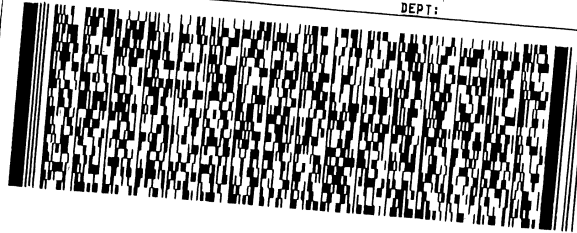
ORIGIN ID: BFIA

SHIP DATE: 18 JAN 24
ACTWGT: 53.45 LB
CAD: /SSFE2460
DIMS: 24x14x14 IN

**TO SAMPLE RECEIVING
EUROFINS ENVIR TESTING
4955 YARROW ST
DENVER
ARVADA CO 80002
(303) 736-0100**

urofins | Environment
TestAmerica
2433153

(US)



**FedEx
Express**

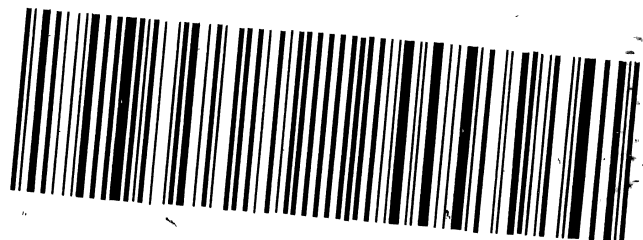


TRK# 0667 8180 8272 4765

**FRI - 19 JAN 10:30A
PRIORITY OVERNIGHT**

XA LAAA

**80002
CO - US DEN**



Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record



Environment Testing

[illegible]

[illegible]

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 280-186819-1

Login Number: 186819

List Number: 1

Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to job narrative for details
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	No: Headspace larger than 1/4"
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
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.	False	
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: 280-186819-1

Login Number: 186819

List Number: 2

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

List Creation: 01/26/24 01:44 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	2.2 IR GUN #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	