



May 24, 2021

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

Re: First Quarter 2021 Environmental Monitoring Report
Hansville Landfill, Kitsap County, Washington
Project No. 160423-005-05.1

Dear Alexis:

This quarterly report summarizes the results of environmental monitoring conducted at the Hansville Landfill (Site) during the first quarter of 2021, and was prepared by Aspect Consulting, LLC (Aspect) on behalf of Kitsap County Public Works Solid Waste Division (County) and Waste Management of Washington (WMW). Ongoing environmental monitoring at the Site supports the selected remedy of natural attenuation of groundwater with enhanced monitoring and institutional controls that was established under Amended Consent Decree No. 95-2-03005-1 (August 5, 2011).

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

Conditions monitored at the Site during the first quarter of 2021 were consistent with historical trends showing improvements in protection of human health and the environment. This report is organized consistent with quarterly reporting topics listed in the Compliance Monitoring Plan (SCS, 2011), and includes:

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

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

Site Activities – First Quarter 2021

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

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

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

- On January 18, 2021, Aspect conducted monthly performance monitoring of the blower system and condensate management system. In addition, Aspect collected a landfill gas sample from between the blower outlet and the flare for laboratory analysis in support of air quality analysis.
- On January 20, 2021, Aspect completed groundwater and surface water sampling in accordance with the Compliance Monitoring Plan (SCS, 2011).
- On January 25, 2021, Aspect re-sampled surface water at location SW-6 for arsenic analysis. The sample collected January 20, 2021, was inadvertently shipped to the laboratory in Denver instead of being delivered for analysis at the laboratory in Seattle.
- On February 18, 2021, Aspect conducted monthly performance monitoring of the blower system and condensate management system. In addition, Aspect collected a landfill gas sample from between the blower outlet and the flare for laboratory analysis in support of air quality analysis.
- On March 18, 2021, Aspect conducted landfill gas monitoring in accordance with the Compliance Monitoring Plan (SCS, 2011) and inspected the blower system for proper operation. Aspect monitored landfill gas concentrations at the blower, extraction wells, and at compliance monitoring probes. Extraction well flow rates were adjusted to ensure capture of landfill gasses, as necessary.

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

Deviations from the Compliance Monitoring Plan

There were no deviations from the Compliance Monitoring Plan (SCS, 2011) during the first quarter 2021 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 18, 2021, and on February 18, 2021. Aspect monitored landfill gas concentrations at the blower, extraction wells, and compliance monitoring probes on March 18, 2021.

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

- Landfill gas composition measurements included methane (CH₄), carbon dioxide (CO₂), oxygen (O₂), and balance gas (Balance) concentrations.
- Collection system pressure measurements included the static pressure measured before and after any valve adjustments, reported as “initial” and “adjusted,” respectively.
- Collection system flow-rate measurements were obtained at all locations via orifice plates. The differential pressure and gas temperature were measured to calculate flow. Table A-1 presents flow rates measured after valve adjustments, reported as “adjusted.”

Landfill Gas System Performance

During the compliance monitoring event on March 18, 2021, observed conditions remained within the normal range. Methane and carbon dioxide concentrations at the blower inlet were approximately 3.6 percent by volume and 9.9 percent by volume, respectively. The oxygen concentration was approximately 9.1 percent by volume. Flow rates were approximately 77 standard cubic feet per minute (scfm) during the third quarter. Wellfield optimization will continue to focus on maximizing methane and carbon dioxide collection rates. During the first quarter of 2021, the 2,000-gallon condensate storage tank remained at approximately 1,050 gallons full reflecting improved recovery which is consistent with the sump pump replacement in fourth quarter 2020 and wet season conditions.

Based on the consistent performance of the landfill gas collection system and in consultation with the County and WMW, landfill gas wellfield monitoring and tuning is conducted on a quarterly basis, during the third month of the quarter (March, June, September, December). Monthly site visits include monitoring the flare inlet and condensate management system and visual inspection of the wellfield. If flare inlet readings are outside the normal range, then troubleshooting measures may include wellfield monitoring and tuning. Any damaged wellheads or wellheads with sagging flexible hose will be repaired to maintain optimal landfill gas system performance.

Explosive Gas Control

Methane was not detected in any of the compliance gas probes during the compliance monitoring event on March 18, 2021. 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 0.7 to 4.9 percent by volume, reflecting natural conditions.

Summary of Groundwater and Surface Water Conditions

This section addresses groundwater and surface water conditions based on the monitoring event on January 20, 2021. Samples were collected from six groundwater monitoring wells and from four surface water monitoring locations (see Figure B-1) for laboratory analysis.

Groundwater Flow

Groundwater flow conditions during the first quarter of 2021 were consistent with those observed during previous monitoring events. Groundwater surface elevations were calculated using water levels measured January 20, 2021 (see 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 shifts southwest, consistent with historical observations. Groundwater gradients ranged from 0.007 feet over feet (feet/feet) in the upgradient areas, to 0.013 feet/feet further downgradient, with the gradient steepening near the groundwater discharge area (Figure B-1).

Groundwater and Surface Water Quality

Groundwater quality results from the first quarter of 2021 are presented in Table B-2, including field parameters, conventional parameters, dissolved metals, and volatile organic compounds. During the reporting period, dissolved arsenic concentrations in groundwater were below the Site-specific cleanup level of 0.005 milligrams per liter (mg/L) at all monitoring wells except MW-14 (0.0105 mg/L) and MW-13D (0.00523 mg/L). Dissolved manganese concentrations were below the Site-specific cleanup level of 2.24 mg/L. Vinyl chloride concentrations in groundwater were below the Site-specific groundwater cleanup level of 0.025 micrograms per liter (µg/L) at all monitoring wells except MW-6 (0.053 µg/L), MW-12I (0.033 µg/L), and MW-14 (0.056 µg/L); consistent with historical results.

Surface water quality results from the first quarter 2021 are presented in Table B-3, including field parameters, conventional parameters, dissolved metals, and volatile organic compounds. During the reporting period, dissolved arsenic concentrations in surface water were below the Site-specific cleanup level of 0.005 mg/L at all monitoring locations. Dissolved manganese concentrations in surface water were below the Site-Specific cleanup level of 2.24 mg/L. Vinyl chloride concentrations in surface water were not detected at a reporting limit below the Site-specific cleanup level of 0.025 µg/L.

Time-Series Plots and Projected Trends

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

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

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

Statistical Evaluation of Groundwater Trends

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

A statistically significant increasing trend in dissolved arsenic concentrations was identified at monitoring well MW-13D. Dissolved arsenic concentrations exceeded the Site-specific cleanup levels during this monitoring period and remain below the regional natural background value provided by Ecology (Ecology, 2016) as shown in Figure C-3. The statistical trend analysis for dissolved arsenic concentrations in MW-13D was first conducted as part of the 2019 Annual Environmental Monitoring Report (Aspect, 2020) and included an evaluation of potential sources. As previously noted, 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 will continue to be closely monitored and evaluated.

Table C-1 provides results of statistical analysis for arsenic and vinyl chloride for monitoring wells MW-6, MW-12I, MW-13D, and MW-14. The trends are defined as “statistically significant” because the magnitude of the Mann-Kendall Test Value (Z) was greater than the Critical Value (which is based on the number of data points and alpha). A negative Sen’s Slope indicates a

decreasing trend in concentrations while a positive Sen's Slope indicates an increasing trend.¹ These statistics confirm what is visually apparent on Figure C-3 showing historical groundwater concentrations.

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

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.

Concentrations of nitrate as N in groundwater at selected locations have been reported at concentrations below the standard of 10 mg/L provided in WAC 173-200, while other locations – such as MW-13D – have historically had nitrate as N concentrations below the reporting limit of 0.1 mg/L. The reported concentration of 6.14 mg/L nitrate as N in groundwater at MW-13D during the third quarter of 2020 appears to have been not representative of groundwater conditions.

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.

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

References

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

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

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

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

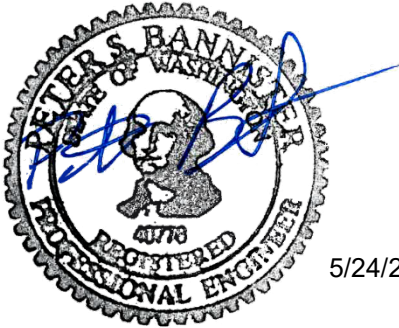
Limitations

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

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Sincerely,

Aspect consulting, LLC



5/24/2021

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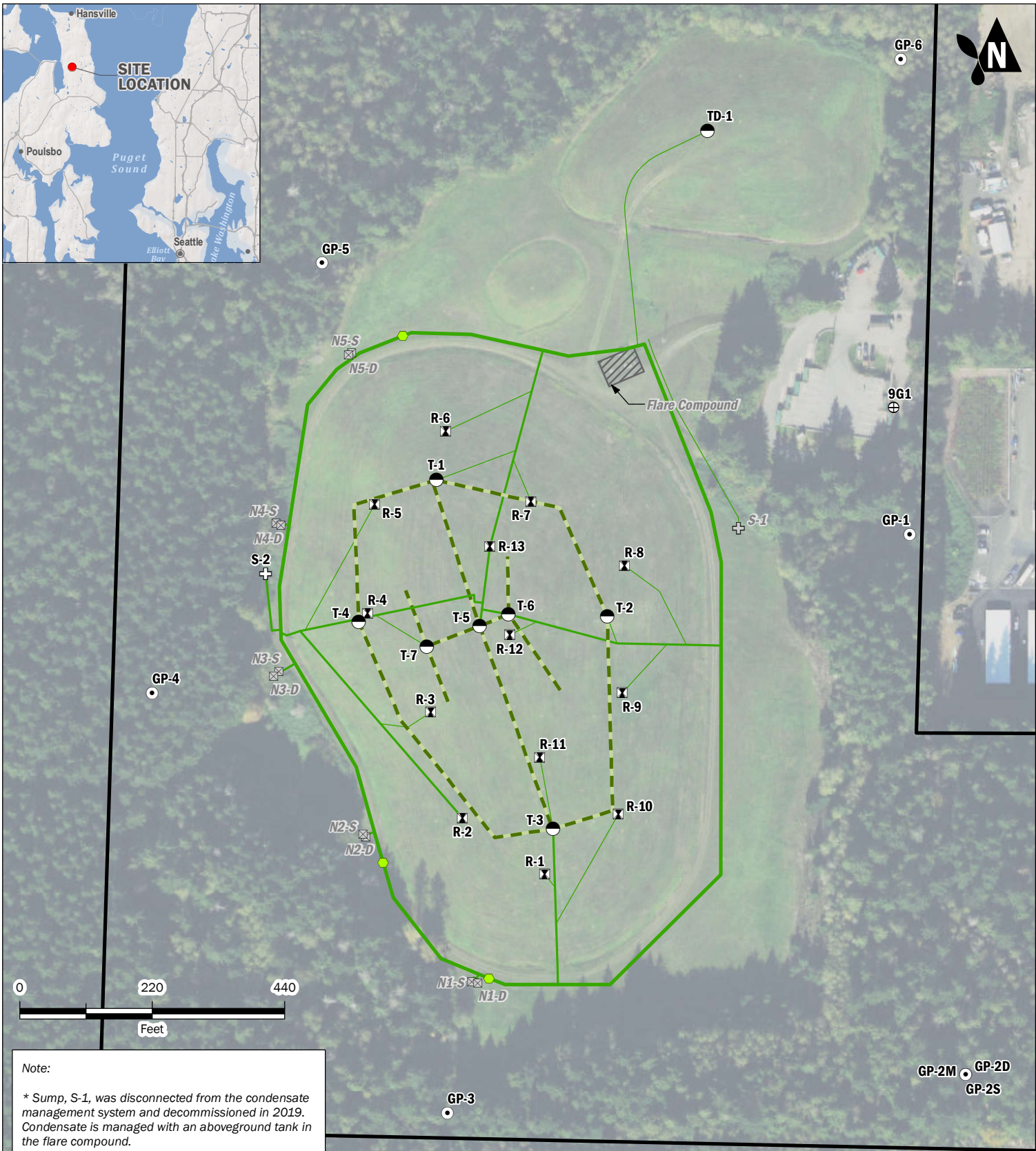
Attachments: A – Landfill Gas Data
 B – Water Quality Results
 C – Groundwater Statistics and Time-Series Plots
 D – Field Forms and Laboratory Reports

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

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ATTACHMENT A

Landfill Gas Data



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
2021 First Quarter Environmental Monitoring Report
Hansville Landfill
Kitsap County, Washington



APR-2021
PROJECT NO.
160423

BY:
MLK / RAP
REVISED BY:
MLK

FIGURE NO.
A-1

Table A-1. Landfill Gas Data, First Quarter, 2021

Project No. 160423, Hansville Landfill, Hansville, Washington

Location	Device ID	Date/Time	Methane CH4 (% by vol)	Carbon Dioxide CO2 (% by vol)	Oxygen O2 (% by vol)	Balance Bal (% by vol)	Static Pressure (inches H2O)		Gas Temperature (degrees F)		Flow Rate (SCFM)	
							Initial	Adjusted	Initial	Adjusted	Initial	Adjusted
Blower Inlet	HANSBLIN	3/18/21 12:26	3.6	9.9	9.1	77.4	-6.01	-6.01	45.2	45.2	76.9	76.8
Blower Outlet	HANSBLOT	3/18/2021 12:30	3.4	9.6	9.7	77.3	N/A	N/A	N/A	N/A	N/A	N/A
Extraction Well 001	HANSR001	3/18/2021 14:08	0	0.1	21.3	78.6	-0.58	-0.58	45.5	45.5	0	0
Extraction Well 002	HANSR002	3/18/2021 13:40	3.1	14	4.5	78.4	N/A	N/A	N/A	N/A	N/A	N/A
Extraction Well 003	HANSR003	3/18/2021 13:36	12.5	14.3	0	73.2	-1.38	-1.38	53.8	53.8	3.9	3.9
Extraction Well 004	HANSR004	3/18/2021 13:21	4.9	18.1	0	77	-1.81	-1.81	62.4	62.4	2.8	2.8
Extraction Well 005	HANSR005	3/18/2021 13:17	7.5	19.5	0.1	72.9	-1.14	-1.14	65.2	65.2	3.2	3.1
Extraction Well 006	HANSR006	3/18/2021 13:12	3.2	17.3	1.9	77.6	-1.49	-1.49	67.8	67.8	3.8	3.8
Extraction Well 007	HANSR007	3/18/2021 12:59	1	15.7	1.2	82.1	-1.3	-1.3	59.6	59.6	3	2.9
Extraction Well 008	HANSR008	3/18/2021 14:28	10	18.4	0	71.6	-0.64	-0.64	46.7	46.7	0.2	0.3
Extraction Well 009	HANSR009	3/18/2021 14:20	2.3	9.6	9.3	78.8	N/A	N/A	N/A	N/A	N/A	N/A
Extraction Well 010	HANSR010	3/18/2021 14:16	4.7	9	8.6	77.7	-0.41	-0.41	46.3	46.3	0	0
Extraction Well 011	HANSR011	3/18/2021 13:51	0	0.1	21.2	78.7	-0.65	-0.65	45.4	45.4	0	0
Extraction Well 012	HANSR012	3/18/2021 12:46	0.4	0.5	20.3	78.8	-0.71	-0.71	44.3	44.3	0	0
Extraction Well 013	HANSR013	3/18/2021 12:55	5.1	13.4	1.9	79.6	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TD-1	HANSTD01	3/18/2021 14:44	1.7	21.2	0	77.1	-0.14	-0.14	49.6	49.6	14.7	14.7
Trench Collector TR-1	HANSTR01	3/18/2021 13:06	8.8	14.6	2.7	73.9	-0.76	-0.76	50.4	50.4	3.3	3.3
Trench Collector TR-2	HANSTR02	3/18/2021 14:25	1	3.9	16.5	78.6	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-3	HANSTR03	3/18/2021 13:57	0	0.1	21.3	78.6	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-4	HANSTR04	3/18/2021 13:26	9.5	17.1	0	73.4	-0.73	-0.73	50.7	50.7	3.4	3.4
Trench Collector TR-5	HANSTR05	3/18/2021 12:51	0	0.1	21.2	78.7	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-6	HANSTR06	3/18/2021 12:41	0	0.1	20.9	79	N/A	N/A	N/A	N/A	N/A	N/A
Trench Collector TR-7	HANSTR07	3/18/2021 13:31	13.2	11.2	6.5	69.1	-0.74	-0.74	51.3	51.3	4.1	4.1
Gas Probe 1	HANSGP01	3/18/2021 14:15	0	1.6	18.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Shallow	HANSGP2S	3/18/2021 13:40	0	0.8	19.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Middle	HANSGP2M	3/18/2021 13:45	0	1.3	18.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Deep	HANSGP2D	3/18/2021 13:51	0	1.5	17.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 3	HANSGP03	3/18/2021 12:36	0	1.3	19.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 4	HANSGP04	3/18/2021 13:00	0	0.7	20.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 5	HANSGP05	3/18/2021 12:12	0	1.1	19.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 6	HANSGP06	3/18/2021 11:51	0	4.9	14.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 7	HANSGP07	3/18/2021 13:22	0	2.8	18.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes

Static pressures and flow rates were inadvertently not recorded on March 18, 2021. Values reported represent averages of other monitoring events.

Flow rates measured using orifice plates (where installed).

N/A = indicates parameter not measured.

inches H2O = inches water column

degrees F = degrees Fahrenheit

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

ATTACHMENT B

Water Quality Results

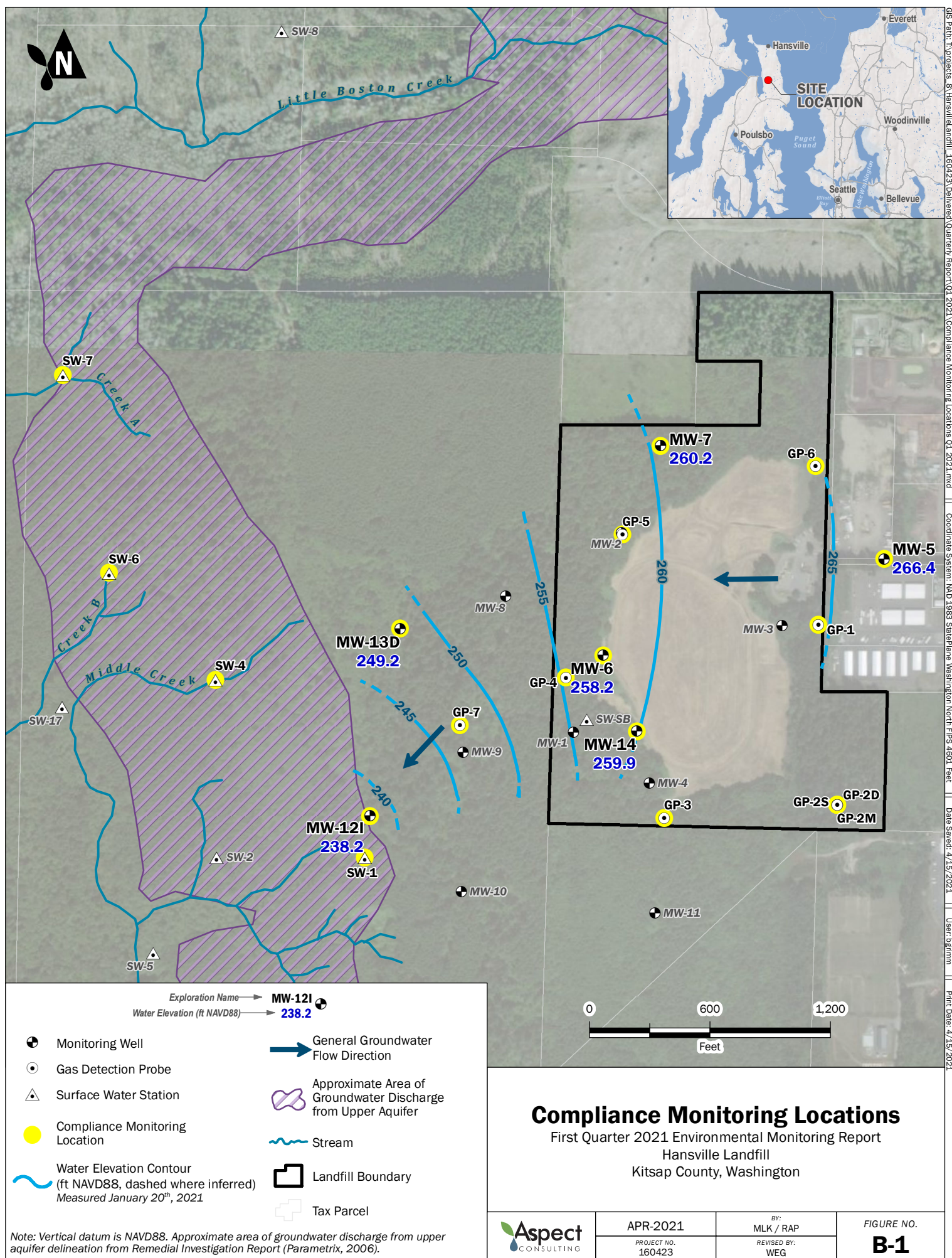


Table B-1. Water Level Elevations

Project No. 160423, Hansville Landfill, Hansville, WA

Well	Ground Elevation (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Screen Elevation (ft NAVD88)		Depth to Water (ft)	Water Level Elevation (ft NAVD88)
			Top	Bottom		
MW-5	363.7	366.9	244	234	100.46	266.4
MW-6	332.0	332.7	260	245	74.55	258.2
MW-7	344.3	346.0	259	244	85.81	260.2
MW-12I	245.6	248.1	217	207	9.86	238.2
MW-13D	258.1	260.4	205	195	11.19	249.2
MW-14	338.6	341.1	262	247	81.17	259.9

Notes

Depths to water collected January 20, 2021.

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

ft = feet

Table B-2. Groundwater Quality Results

Project No. 160423 , Hansville, Washington

Location Date			MW-5 01/20/2021	MW-6 01/20/2021	MW-7 01/20/2021	MW-12I 01/20/2021	MW-13D 01/20/2021	MW-14 01/20/2021
Parameter	Units	Site Cleanup Level						
Field Parameters								
Dissolved Oxygen	mg/L		8.11	0.41	0.45	0.4	0.24	0.31
pH	pH units		7.26	7.12	6.51	7.26	7.52	7.07
Redox	mV		81.1	54.4	102.6	79	95.6	117.2
Specific Conductivity	uS/cm		144.6	267.1	173.1	143	201.5	210
Temperature	deg C		10.3	11.9	9.3	8.8	10.1	10.3
Turbidity	NTU		0.26	0.03	0.68	1.09	7.59	2.16
Conventional								
Alkalinity	mg/L		71	160	120	65	73	100
Ammonia (as N)	mg/L		0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Bicarbonate	mg/L		71	160	120	65	73	100
Carbonate	mg/L		10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L		3 U	3.4	3 U	3 U	4.5	3 U
Nitrate (as N)	mg/L		4.49 J	0.123 J	0.25 J	0.1 U	0.1 U	0.1 U
Nitrite (as N)	mg/L		0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Orthophosphate (as P)	mg/L		0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Sulfate	mg/L		7.6	19	5 U	5 U	15	7
Total Organic Carbon	mg/L		1 U	1.2	1.8	2.2	1 U	1.3
Dissolved Metals								
Arsenic	mg/L	0.005	0.00182	0.00179	0.00135	0.00257	0.00523	0.0105
Manganese	mg/L	2.24	0.001 U	0.3	0.0017	0.023	0.0056	1.5
Volatile Organic Compounds								
1,2-Dichloroethene (total)	ug/L		2 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	ug/L		1 U	1 U	1 U	1 U	1 U	1.9
Vinyl Chloride	ug/L	0.025	0.02 U	0.053	0.02 U	0.033	0.02 U	0.056

Notes:

Samples were collected on July 22, 2020

Bold text = Analyte was detected

Shaded Cell = Result exceeded Site Cleanup level

U = Not detected at or above the Reporting Limit shown

mg/L = milligram per liter

mV = millivolts

uS/cm = microSiemens per centimeter

deg C = degrees Celcius

NTU = Nephelometric Turbidity Units

ug/L = microgram per liter

Aspect Consulting

5/24/2021

V:\160423 Kitsap County Hansville Landfill\Deliverables\2021 Reports\2021Q1\App B\2021 Q1 Summary Tables

Table B-2

First Quarter 2021 Environmental Monitoring Report

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Table B-3. Surface Water Quality Results

Project No. 160423, Hansville, Washington

Location Date			SW-1 01/20/2021	SW-4 01/20/2021	SW-6 01/20/2021	SW-6 01/25/2021	SW-7 01/20/2021
Parameter	Units	Site Cleanup Level					
Field Parameters							
Dissolved Oxygen	mg/L		9.97	10.19	9.47	--	10.84
pH	pH units		7.44	7.7	7.11	--	7.47
Redox	mV		70.3	75.3	57.4	--	56
Specific Conductivity	uS/cm		142.3	246.4	87	--	97.3
Temperature	deg C		8.9	7.7	6.4	--	7.4
Turbidity	NTU		5.29	1.91	7.33	--	3.06
Conventional							
Alkalinity	mg/L		70	130	42	--	37
Ammonia (as N)	mg/L		0.03 U	0.03 U	0.03 U	--	0.03 U
Bicarbonate	mg/L		70	130	42	--	37
Carbonate	mg/L		10 U	10 U	10 U	--	10 U
Chloride	mg/L		3.7	9.3	3.6	--	3.6
Nitrate (as N)	mg/L		1.91 J	0.996 J	0.225 J	--	2.39 J
Nitrite (as N)	mg/L		0.1 UJ	0.1 UJ	0.1 UJ	--	0.1 UJ
Orthophosphate (as P)	mg/L		0.1 UJ	0.1 UJ	0.1 UJ	--	0.1 UJ
Sulfate	mg/L		8.1	15	5.5	--	6.2
Total Organic Carbon	mg/L		2.6	10	21	--	11
Dissolved Metals							
Arsenic	mg/L	0.005	0.00159	0.00195	--	0.00256	0.00119
Manganese	mg/L	2.24	0.001 U	0.052	0.039	--	0.0031
Volatile Organic Compounds							
1,2-Dichloroethene (total)	ug/L		2 U	2 U	2 U	--	2 U
cis-1,2-Dichloroethene	ug/L		1 U	1 U	1 U	--	1 U
Vinyl Chloride	ug/L	0.025	0.02 U	0.02 U	0.02 U	--	0.02 U

Notes

Samples were collected on January 21, 2021

Bold text = Analyte was detected

Shaded Cell = Result exceeded Site Cleanup level

U = Not detected at or above the Reporting Limit shown

mg/L = milligram per liter

mV = millivolts

uS/cm = microSiemens per centimeter

deg C = degrees Celcius

NTU = Nephelometric Turbidity Units

ug/L = microgram per liter

Aspect Consulting

5/24/2021

V:\160423 Kitsap County Hansville Landfill\Deliverables\2021 Reports\2021Q1\App B\2021 Q1 Summary Tables

Table B-3

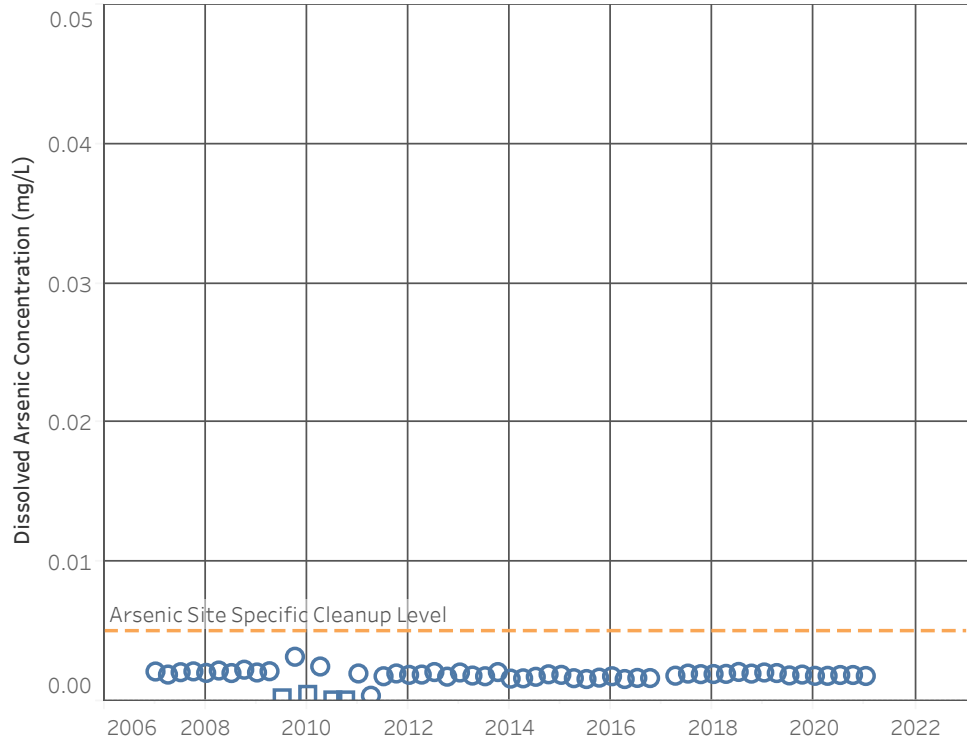
First Quarter 2021 Environmental Monitoring Report

Page 1 of 1

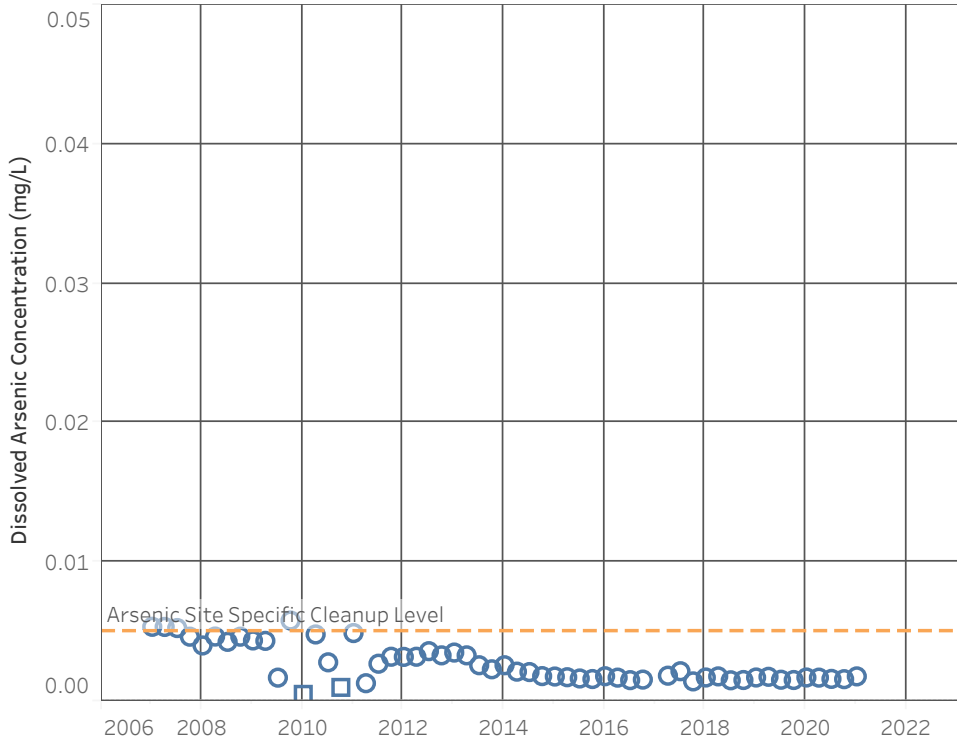
ATTACHMENT C

Groundwater Statistics and Time-Series Plots

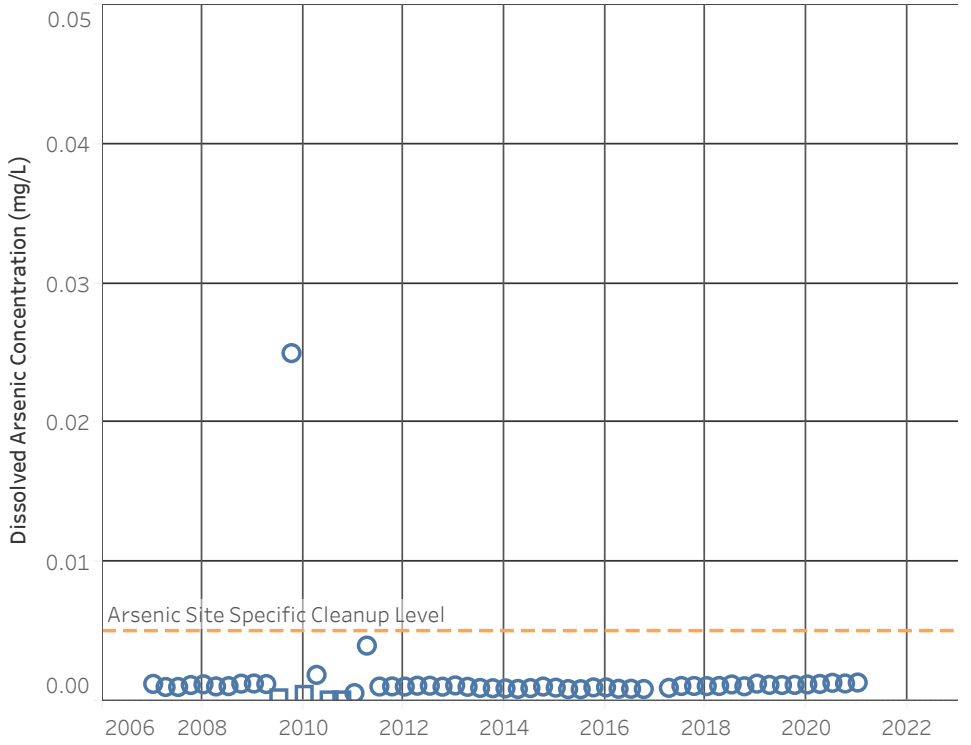
MW-5 (Background Well)



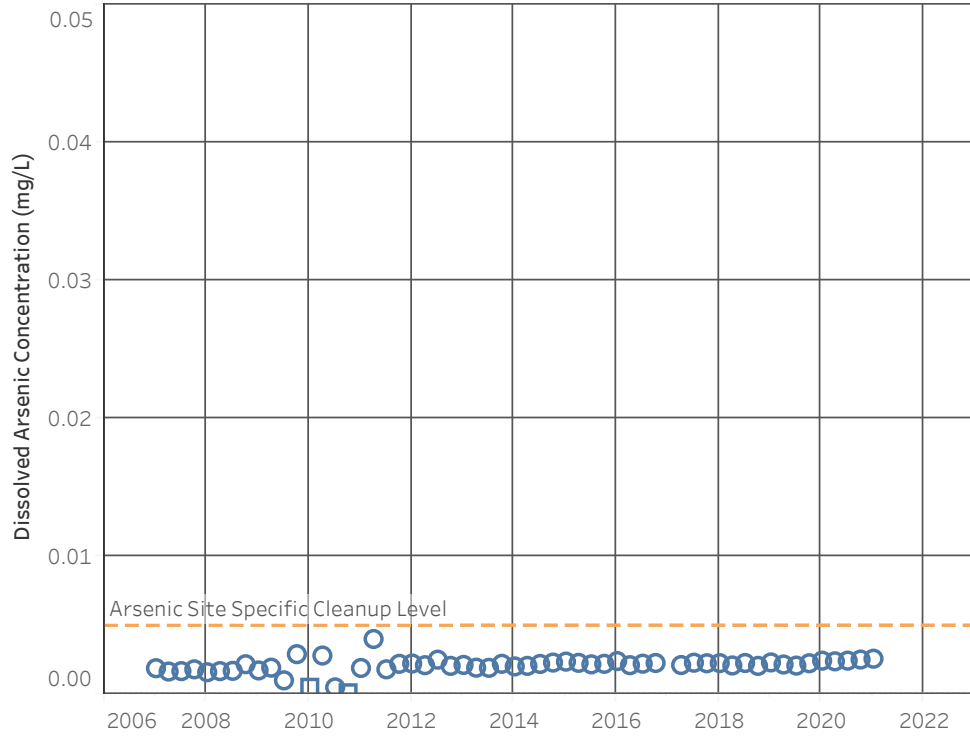
MW-6



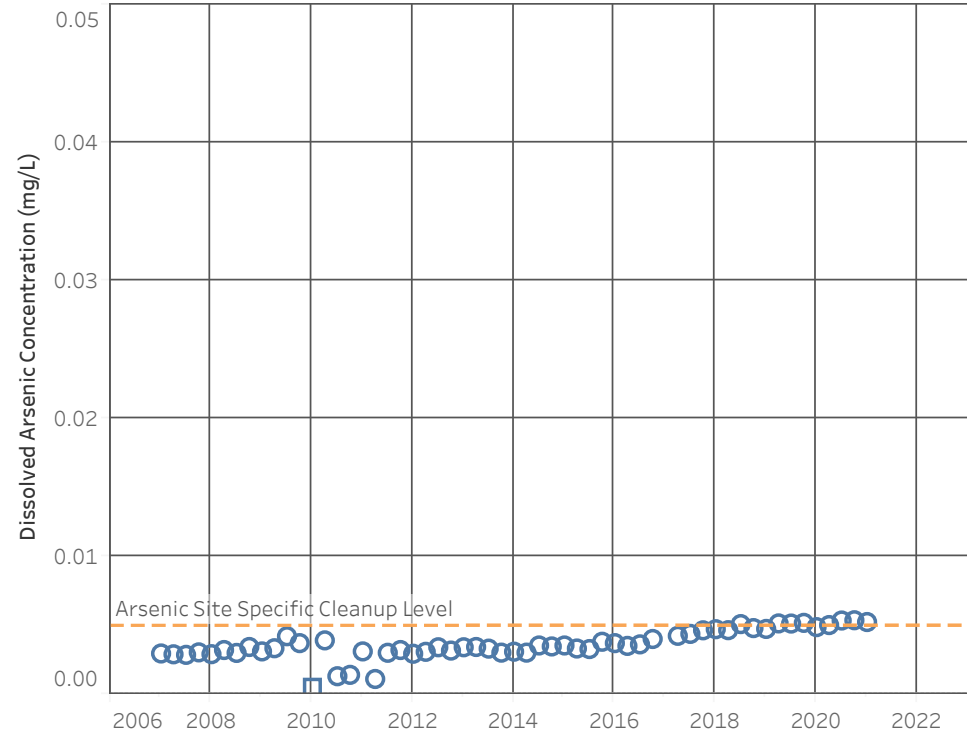
MW-7



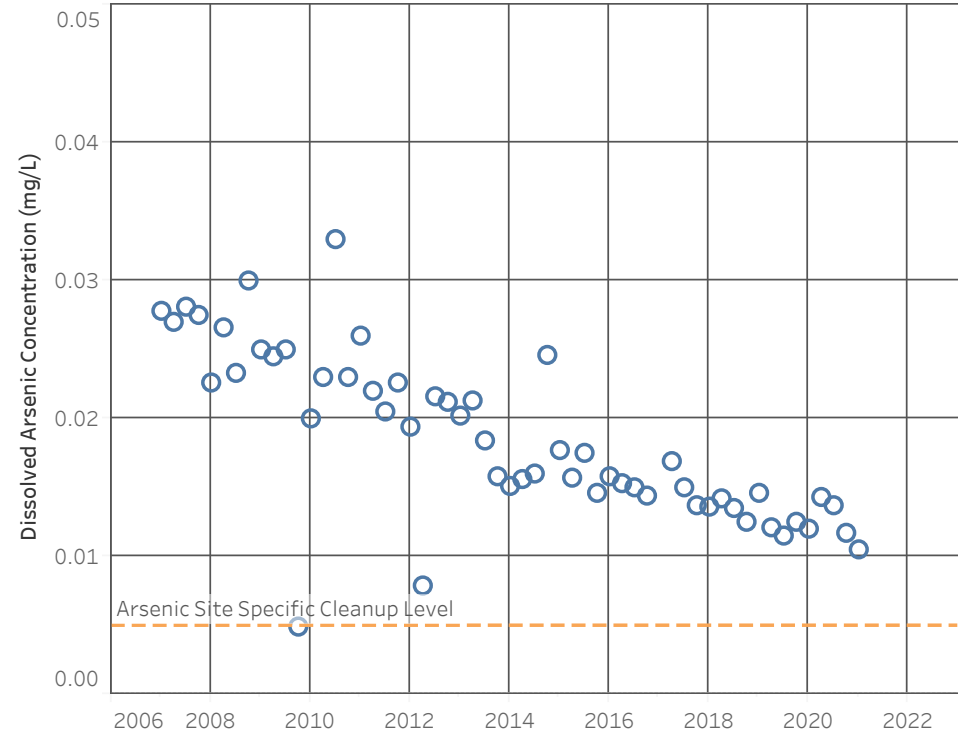
MW-12I



MW-13D



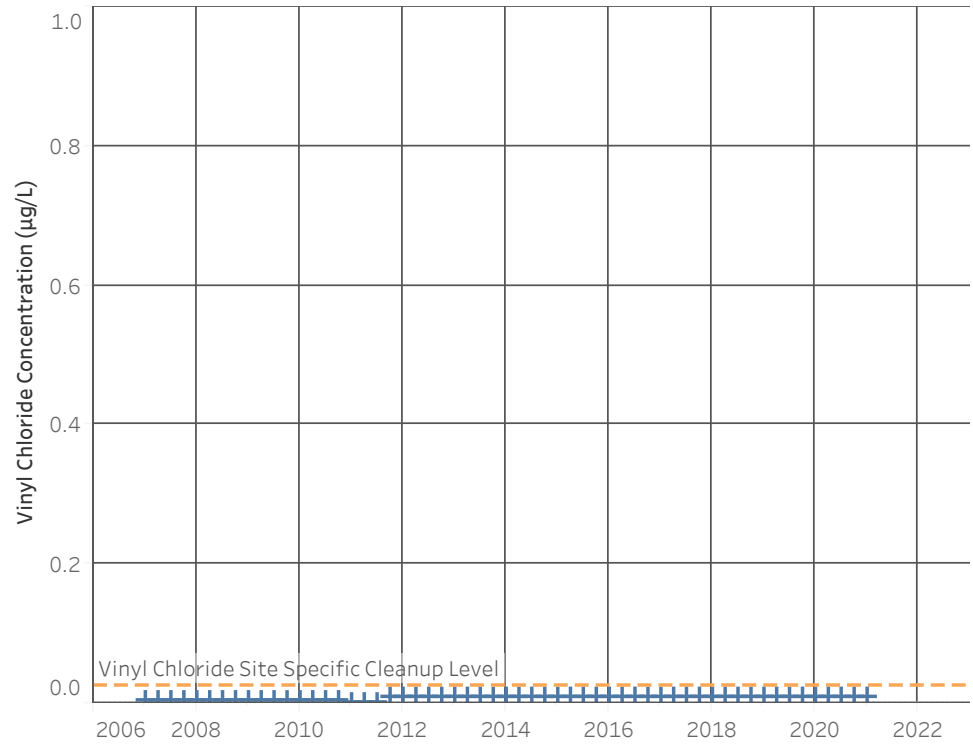
MW-14



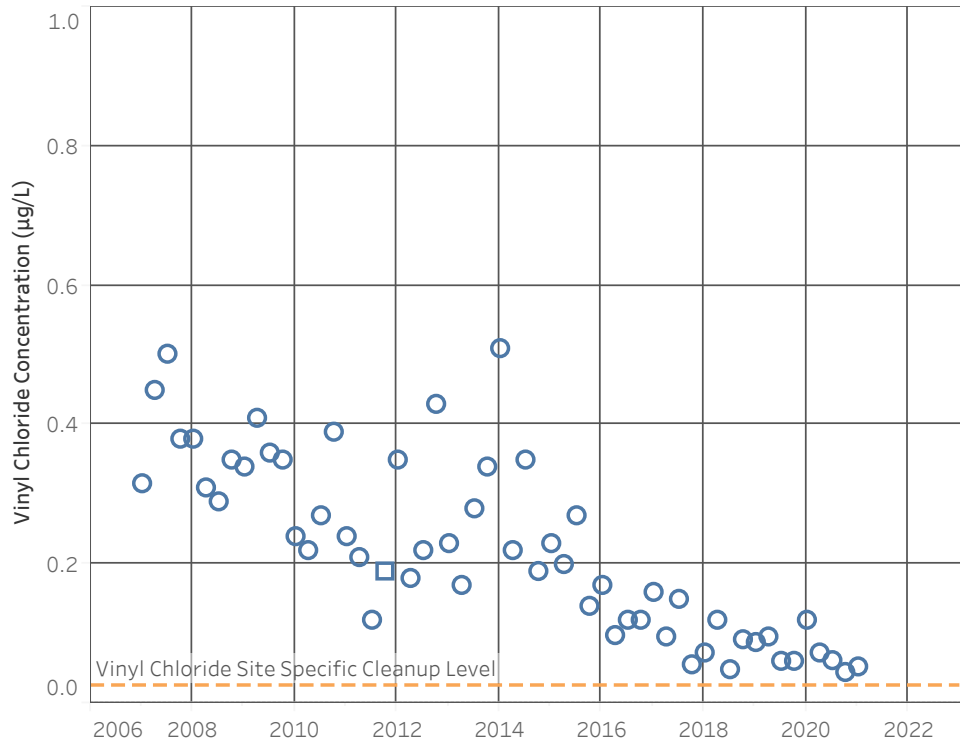
Note: Non-detected values are shown at 1/2 the reporting limit.
Results from First Quarter 2017 were rejected. See text.

Result Flags
○ Detected
□ U - Non-Detect

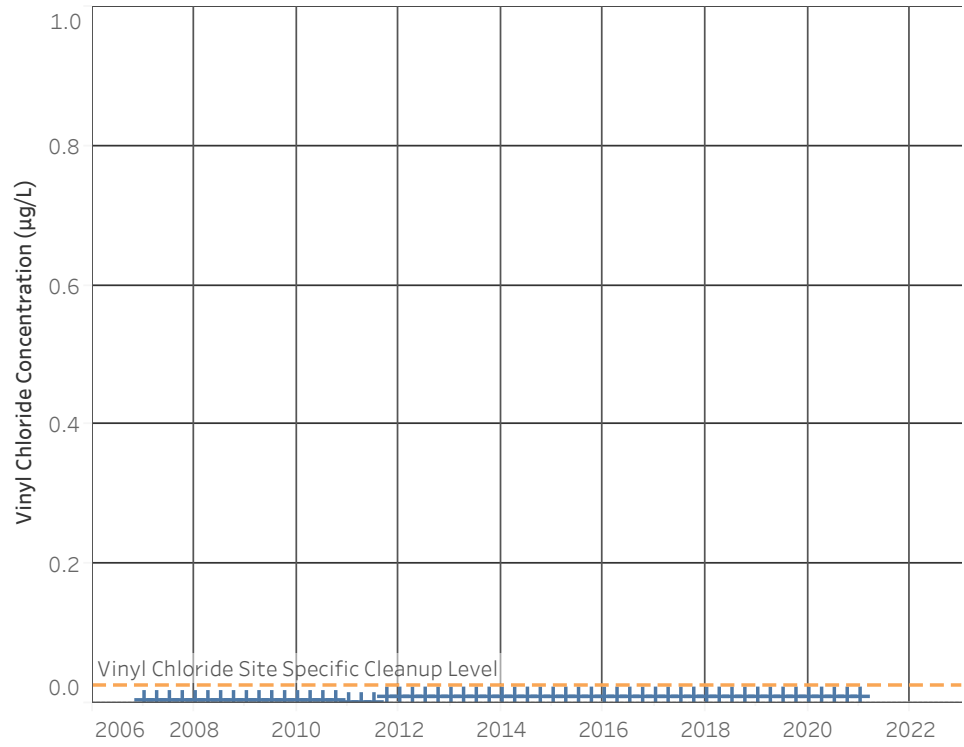
MW-5 (Background Well)



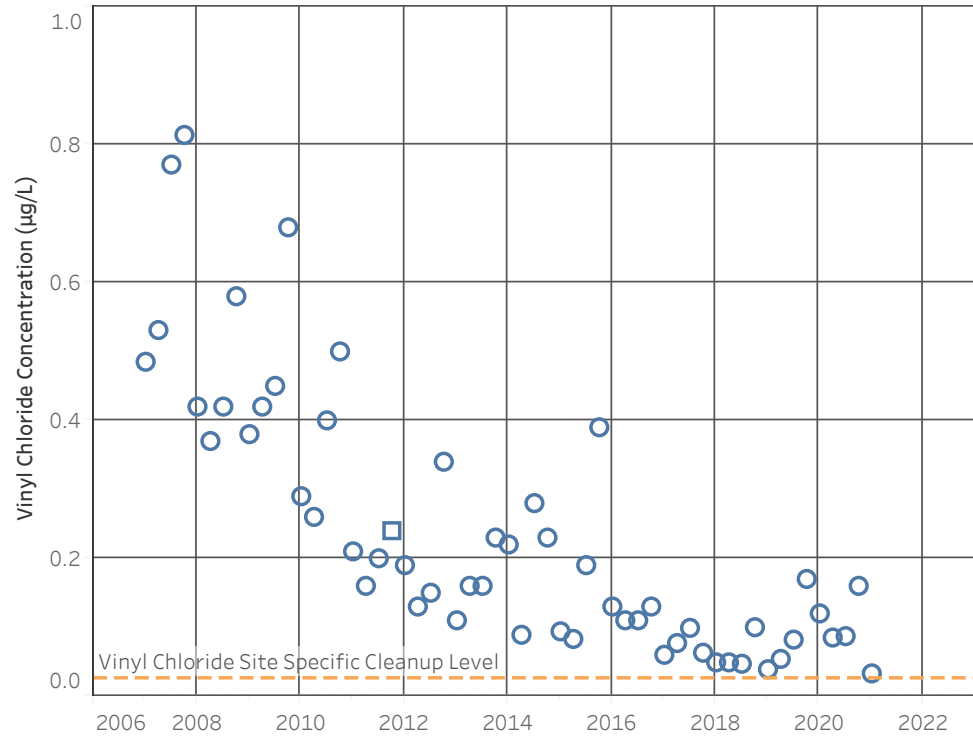
MW-6



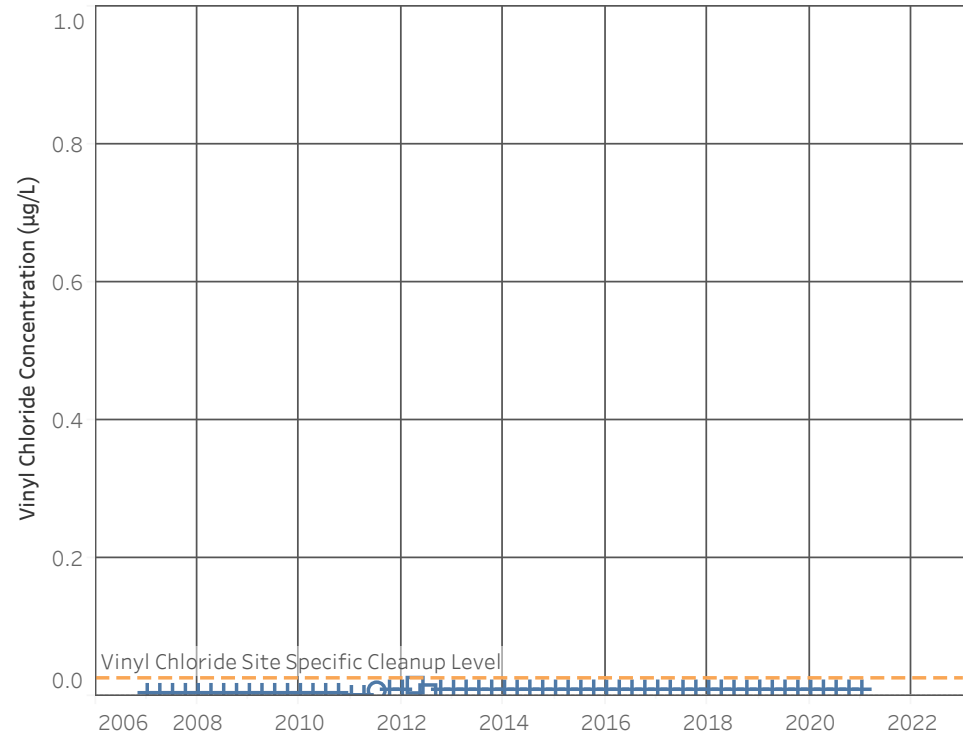
MW-7



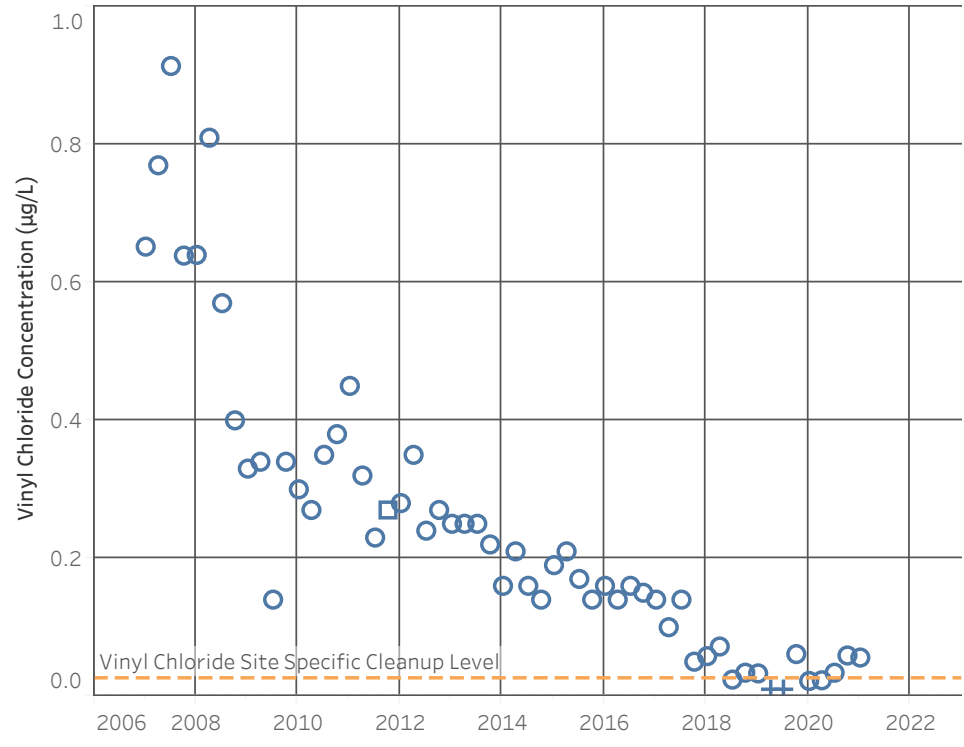
MW-12I



MW-13D



MW-14

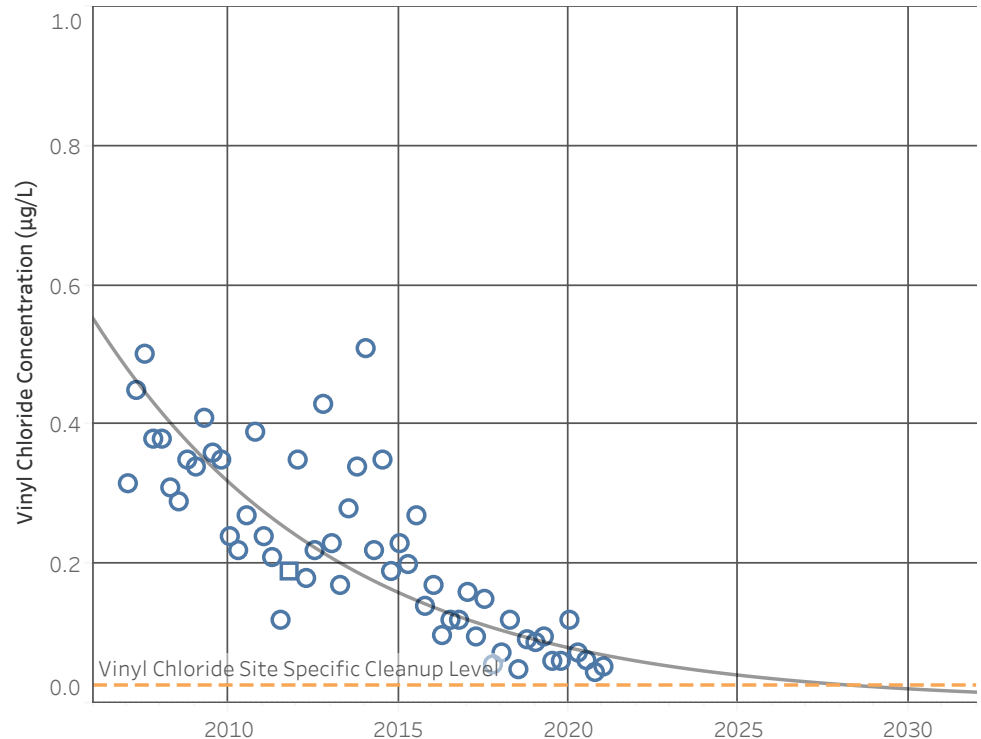


Note: Non-detected values are shown at 1/2 the reporting limit.

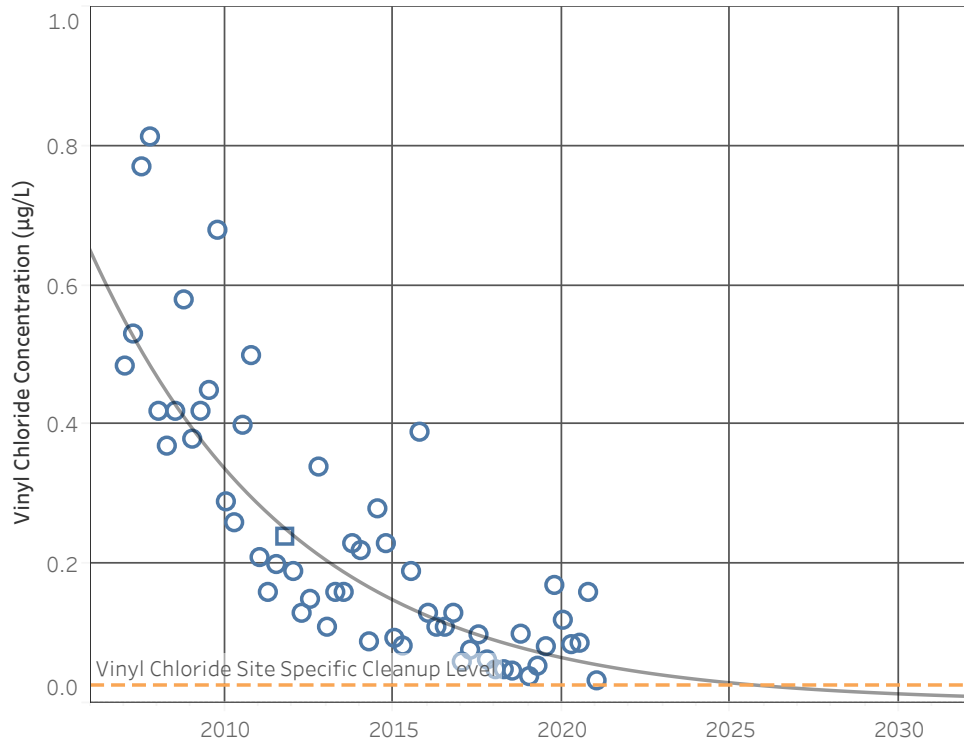
Result Flags

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

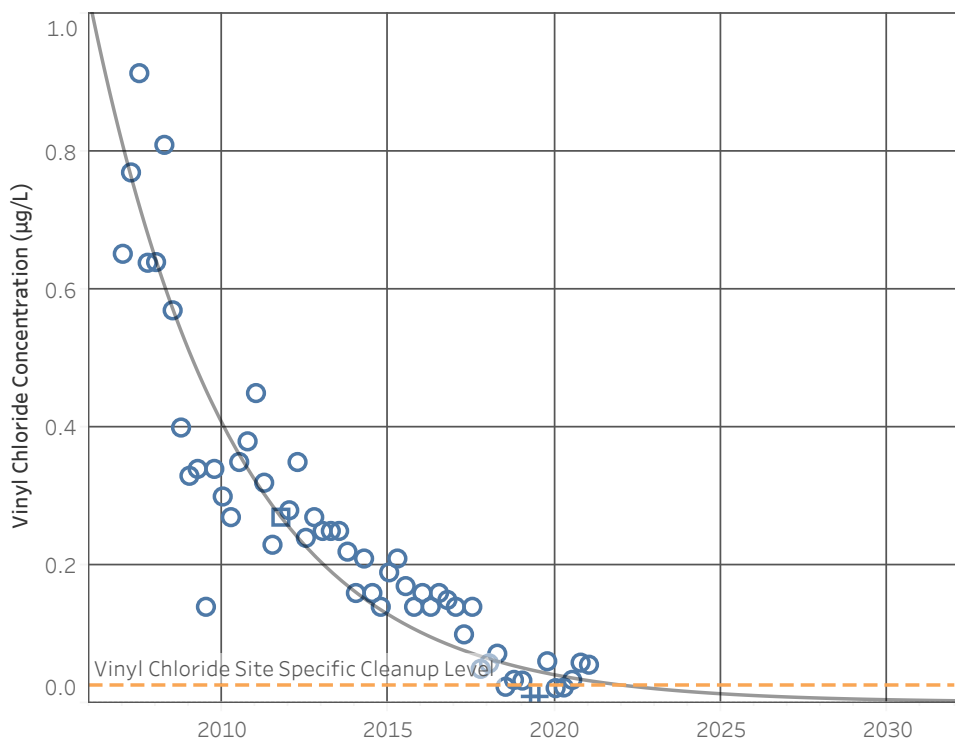
MW-6 Vinyl Chloride Trend



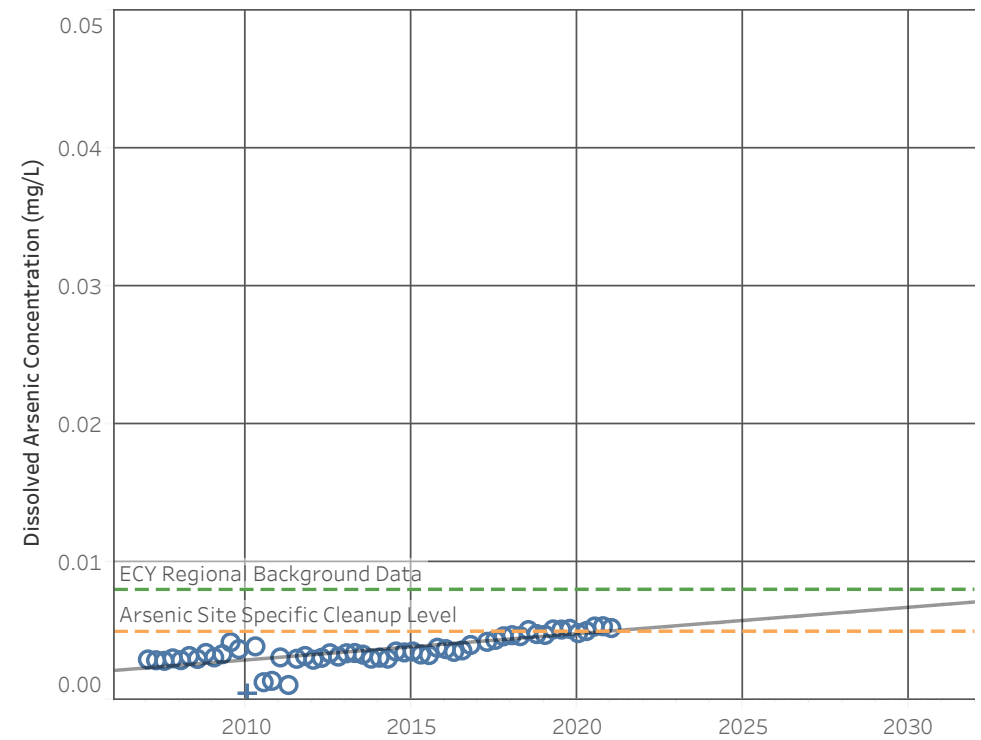
MW-12I Vinyl Chloride Trend



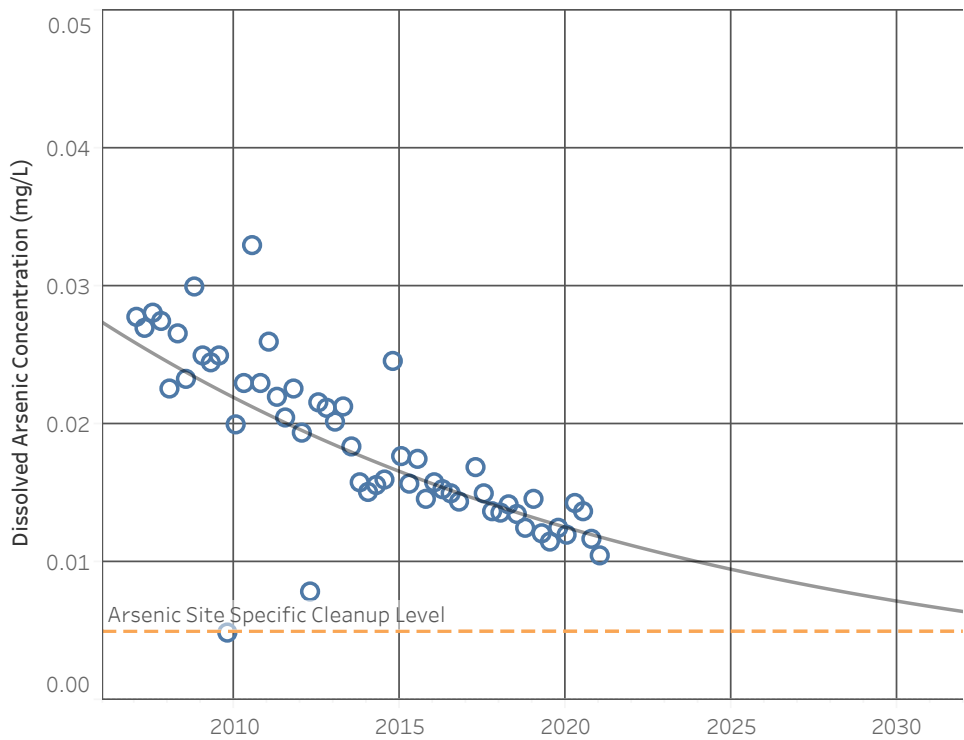
MW-14 Vinyl Chloride Trend



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

Table C-1. Statistical Analysis

Project 160423, Hansville Landfill, Hansville, WA

Dissolved Arsenic Statistical Results

Well	Statistical Trend ¹	Mann-Kendall Test ²				Sen's Slope	
		Test Value, Z	Critical Value	Number of data points, n	Statistical Significance	(ug/L per day)	(ug/L per year)
MW-5	-- ³	--	--	--	--	--	--
MW-6	--	--	--	--	--	--	--
MW-7	--	--	--	--	--	--	--
MW-12I	--	--	--	--	--	--	--
MW-13D	Increasing	7.3	1.96	56	Yes	5.1E-07	0.00018
MW-14	Decreasing	-7.7	-1.96	56	Yes	-3.2E-06	-0.0012

Vinyl Chloride Statistical Results

Well	Statistical Trend ¹	Mann-Kendall Test ²				Sen's Slope	
		Test Value, Z	Critical Value	Number of data points, n	Statistical Significance	(ug/L per day)	(ug/L per year)
MW-5	-- ³	--	--	--	--	--	--
MW-6	Decreasing	-7.3	-1.96	57	Yes	-6.6E-05	-0.024
MW-7	--	--	--	--	--	--	--
MW-12I	Decreasing	-7.1	-1.96	57	Yes	-8.5E-05	-0.031
MW-13D	--	--	--	--	--	--	--
MW-14	Decreasing	-8.8	-1.96	57	Yes	-9.7E-05	-0.035

Notes

1 - The Statistical Trend indicates:

"Non-significant" if the magnitude of the Test Value is less than the Critical Value,

"Increasing" if the magnitude of the Test Value is greater than the Critical Value and the Sen's Slope is positive, or

"Decreasing" if the magnitude of the Test Value is greater than the Critical Value and the Sen's Slope is negative.

2 - Mann-Kendall tests were performed with alpha = 0.05 (95% confidence level).

For N>40, Mann-Kendall uses an approximation of a normal distribution, represented by Test Value Z.

3 - "--" Indicates statistical analysis not conducted.

ug/L - micrograms per liter

4 - Data range is from 2nd quarter 2006 through 1st quarter 2021

Aspect Consulting

5/24/2021

V:\160423 Kitsap County Hansville Landfill\Deliverables\2021 Reports\2021Q1\App C\2021 Q1 C-1 Statistical Analysis Results

Table C-1

2021 First Quarter Monitoring Report

1 of 1

ATTACHMENT D

Field Forms and Laboratory Reports

Page: 1 of 1

Project Number:

Starting Water Level (ft TOC): 109.46

Casing Stickup (ft):

Total Depth (ft TOC):

Casing Diameter (inches): 2 1/2

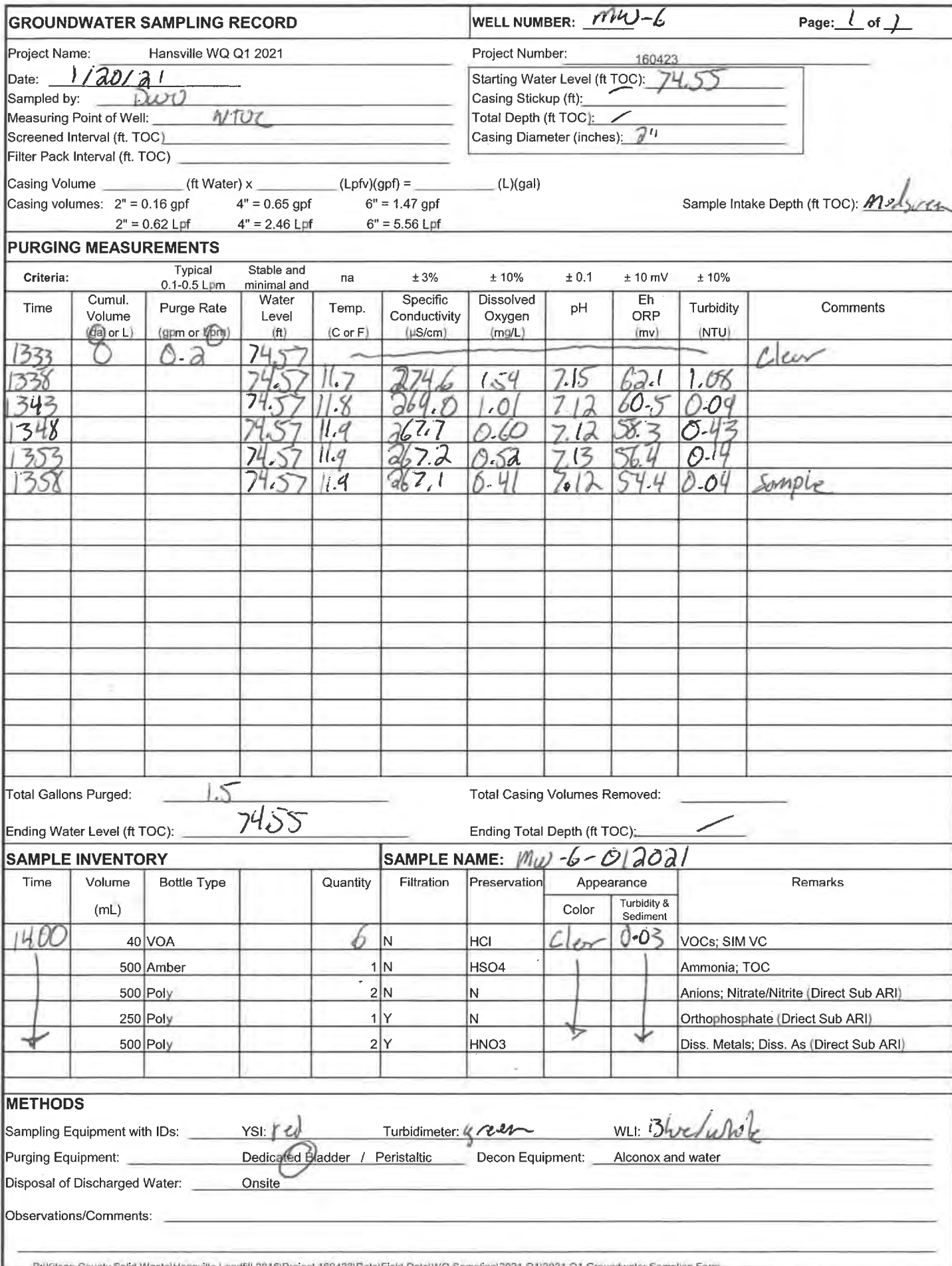
Sample Intake Depth (ft TOC) 7.45

6" = 1.47 gpf

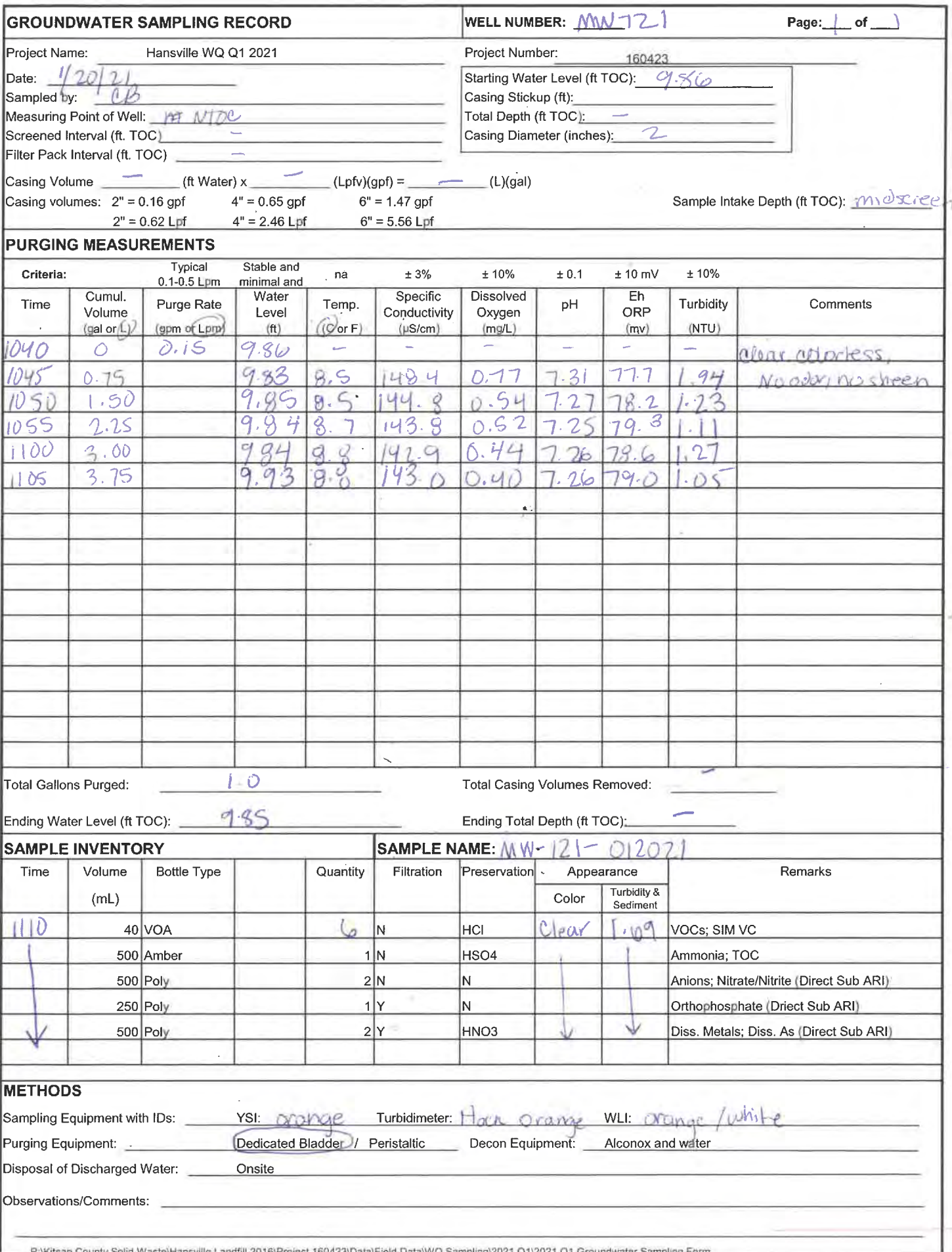
$$6'' = 5.56 \text{ Lpf}$$

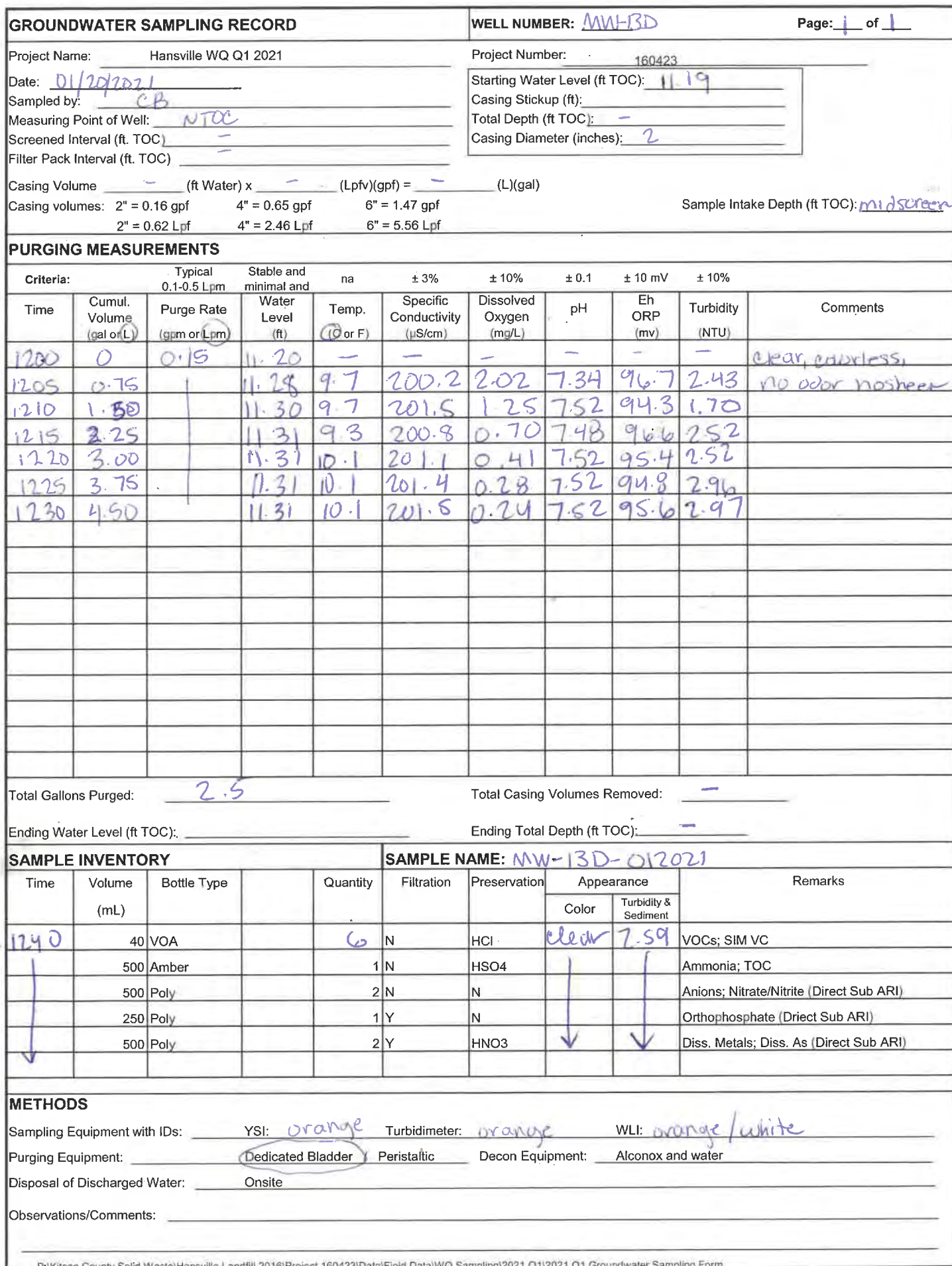
Ending Total Depth (ft TOC):

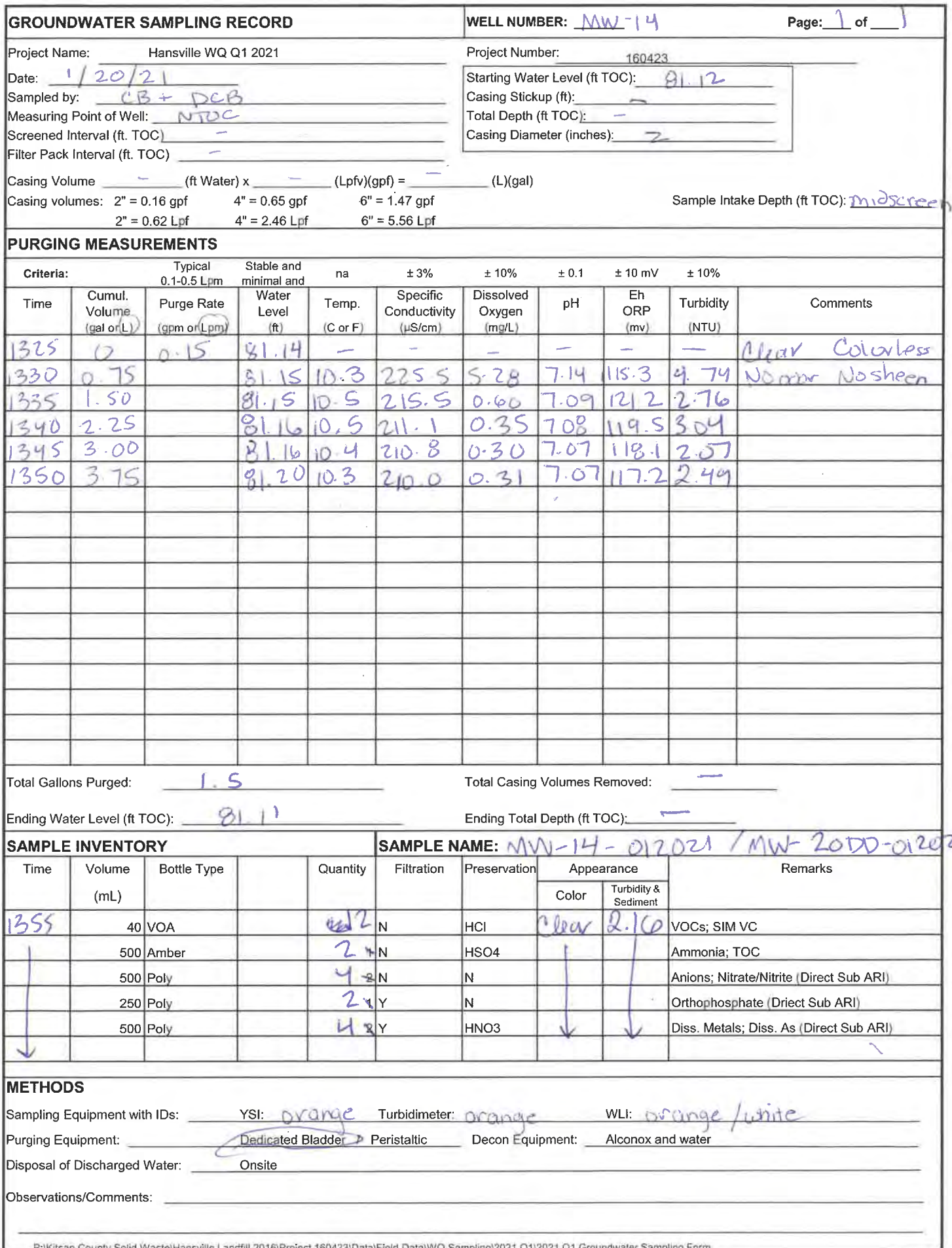
C:\Users\dunruh\Documents\Projects\Field Forms\Groundwater Sampling Form



[illegible]







Page: 1 of 1

Project Number: 160423

Starting Water Level (ft TOC): Starting Water Level (ft TOC):

Casing Stickup (ft): 2000-2100

Total Depth (ft TOC): 10.00

Casing Diameter (inches):

Sample Intake Depth (ft TOC):

Sample Intake Depth (ft TOC):

Total Gallons Purged: _____ Total Casing Volumes Removed: _____

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

SAMPLE NAME:

P:\Kitsan County Solid Waste\Hansville Landfill 2016\Project 180423\Data\Field Data\WQ Sampling\2021_Q1\2021_Q1 Groundwater Sampling Form

Page: 1 of 1

Project Number: 160423

Starting Water Level (ft TOC): 10.00

Starting Water Level (ft TOC):

Casing Stickup (ft): 1

Total Depth (ft TOC): 10.00

Casing Diameter (inches):

Sample Intake Depth (ft TOC): _____

Sample Intake Depth (ft TOC): _____

[illegible]

Total Casing Volumes Removed: 1000000

Ending Total Depth (ft TOC): _____

SAMPLE NAME:

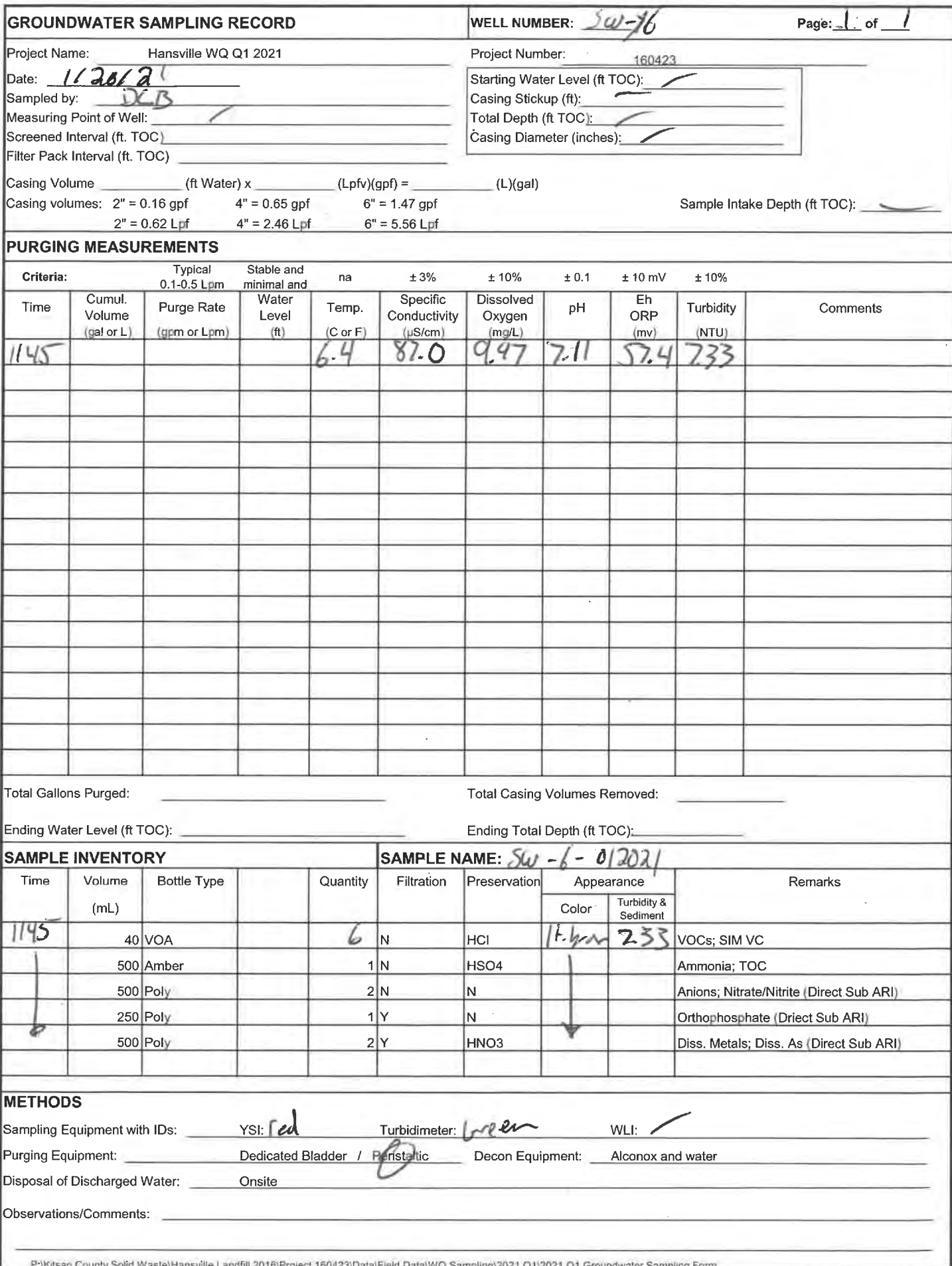
[illegible]

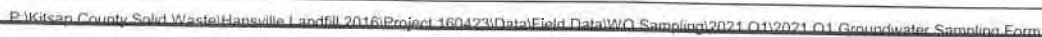
Sampling Equipment with IDs: _____ YSI: red Turbidimeter: white WLI: —

Purging Equipment: _____ Dedicated Bladder / Peristaltic Decon Equipment: _____ Alconox and water

Disposal of Discharged Water: _____ Onsite

Observations/Comments: _____





ANALYTICAL REPORT

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

Laboratory Job ID: 280-144864-1
Client Project/Site: Hansville Landfill
Sampling Event: 1Q Sampling

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

Attn: Ms. Meilani Lanier-Kamaha'o



Authorized for release by:
2/24/2021 11:59:23 AM

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

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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/Site: Hansville Landfill

Job ID: 280-144864-1

Job ID: 280-144864-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Aspect Consulting

Project: Hansville Landfill

Report Number: 280-144864-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

Sample Receiving

The samples were received on 01/22/2021 and 01/27/2021; the samples arrived properly preserved and on ice. The temperatures of the coolers at receipt were 0.4° C, 1.0° C, 1.6° C and 2.5° C.

The sulfuric preserved 500 ml amber glass containers for the following samples were received with broken lids: MW7-012021 (280-144864-7) and SW7-012021 (280-144864-11). No volume was lost or contaminated. The lids were replaced and the laboratory will proceed with the TOC analysis. The client was notified.

Due to a sampler shipment error, Eurofins TestAmerica received the Nitrate, Nitrite and Orthophos volume for the sample MW-20DD-012021. The client was notified.

Due to a sampler shipment error, Eurofins TestAmerica received the Dissolved Arsenic volume for the sample SW6-012021. The client was notified and resampling was performed. This submission contains the resampling Dissolved Arsenic result for the sample SW6.

Holding Times

All holding times were within established control limits.

Method Blanks

All Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

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

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

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

Case Narrative

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Job ID: 280-144864-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

General Comments

The analyses for 8260C SIM and 8260C were performed by Eurofins TestAmerica Buffalo. Their address and phone number are:

Eurofins TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
716-691-2600

The analysis for Nitrate, Nitrite, Ortho-phos Method 300.0, and Dissolved Arsenic Method 200.8 were performed by ARI. Their address and phone number are:

Analytical Resources, Inc.
4611 S.134th Place
Tukwila, WA 98168-3240
206-695-6200

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Client Sample ID: MW12I-012021

Lab Sample ID: 280-144864-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.033		0.020		ug/L	1		8260C SIM	Total/NA
1,4-Dioxane	270		40		ug/L	1		8260C	Total/NA
Manganese	23		1.0		ug/L	1		6020	Dissolved
Total Alkalinity	65		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	65		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: MW13D-012021

Lab Sample ID: 280-144864-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	83		40		ug/L	1		8260C	Total/NA
Manganese	5.6		1.0		ug/L	1		6020	Dissolved
Chloride	4.5		3.0		mg/L	1		300.0	Total/NA
Sulfate	15		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	73		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	73		10		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW14-012021

Lab Sample ID: 280-144864-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.056		0.020		ug/L	1		8260C SIM	Total/NA
cis-1,2-Dichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Manganese	1500		1.0		ug/L	1		6020	Dissolved
Sulfate	7.0		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	100		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	100		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.3		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW20DD-012021

Lab Sample ID: 280-144864-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.058		0.020		ug/L	1		8260C SIM	Total/NA
1,2-Dichloroethene, Total	2.0		2.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.0		1.0		ug/L	1		8260C	Total/NA
Manganese	1500		1.0		ug/L	1		6020	Dissolved
Sulfate	7.0		5.0		mg/L	1		300.0	Total/NA
Ammonia as N	0.037		0.030		mg/L	1		350.1	Total/NA
Total Alkalinity	91		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	91		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.3		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW5-012021

Lab Sample ID: 280-144864-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.6		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	71		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	71		10		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW6-012021

Lab Sample ID: 280-144864-6

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	300		1.0		ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Client Sample ID: MW6-012021 (Continued)

Lab Sample ID: 280-144864-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.4		3.0		mg/L	1		300.0	Total/NA
Sulfate	19		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	160		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	160		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.2		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: MW7-012021

Lab Sample ID: 280-144864-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.7		1.0		ug/L	1		6020	Dissolved
Total Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	120		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	1.8		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW1-012021

Lab Sample ID: 280-144864-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.7		3.0		mg/L	1		300.0	Total/NA
Sulfate	8.1		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	70		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	70		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	2.6		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW4-012021

Lab Sample ID: 280-144864-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	52		1.0		ug/L	1		6020	Dissolved
Chloride	9.3		3.0		mg/L	1		300.0	Total/NA
Sulfate	15		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	10		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW6-012021

Lab Sample ID: 280-144864-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	39		1.0		ug/L	1		6020	Dissolved
Chloride	3.6		3.0		mg/L	1		300.0	Total/NA
Sulfate	5.5		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	42		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	42		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	21		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: SW7-012021

Lab Sample ID: 280-144864-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.1		1.0		ug/L	1		6020	Dissolved
Chloride	3.6		3.0		mg/L	1		300.0	Total/NA
Sulfate	6.2		5.0		mg/L	1		300.0	Total/NA
Total Alkalinity	37		10		mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	37		10		mg/L	1		SM 2320B	Total/NA
Total Organic Carbon - Average	11		1.0		mg/L	1		SM 5310B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Client Sample ID: TB1

Lab Sample ID: 280-144864-12

☐ No Detections.

Client Sample ID: SW-6-012521

Lab Sample ID: 280-144948-1

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

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Method Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Protocol References:

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

None = None

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

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

Laboratory References:

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

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

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

Sample Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-144864-1	MW12I-012021	Water	01/20/21 11:10	01/22/21 10:00	
280-144864-2	MW13D-012021	Water	01/20/21 12:40	01/22/21 10:00	
280-144864-3	MW14-012021	Water	01/20/21 13:55	01/22/21 10:00	
280-144864-4	MW20DD-012021	Water	01/20/21 00:00	01/22/21 10:00	
280-144864-5	MW5-012021	Water	01/20/21 09:55	01/22/21 10:00	
280-144864-6	MW6-012021	Water	01/20/21 14:00	01/22/21 10:00	
280-144864-7	MW7-012021	Water	01/20/21 08:45	01/22/21 10:00	
280-144864-8	SW1-012021	Water	01/20/21 10:45	01/22/21 10:00	
280-144864-9	SW4-012021	Water	01/20/21 11:20	01/22/21 10:00	
280-144864-10	SW6-012021	Water	01/20/21 11:45	01/22/21 10:00	
280-144864-11	SW7-012021	Water	01/20/21 12:45	01/22/21 10:00	
280-144864-12	TB1	Water	01/20/21 08:45	01/22/21 10:00	
280-144948-1	SW-6-012521	Water	01/25/21 08:00	01/27/21 11:57	

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW12I-012021

Date Collected: 01/20/21 11:10

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.033		0.020		ug/L			01/28/21 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		50 - 150					01/28/21 01:11	1
TBA-d9 (Surr)	95		50 - 150					01/28/21 01:11	1

Client Sample ID: MW13D-012021

Date Collected: 01/20/21 12:40

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		50 - 150					01/28/21 01:35	1
TBA-d9 (Surr)	95		50 - 150					01/28/21 01:35	1

Client Sample ID: MW14-012021

Date Collected: 01/20/21 13:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.056		0.020		ug/L			01/28/21 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		50 - 150					01/28/21 01:59	1
TBA-d9 (Surr)	95		50 - 150					01/28/21 01:59	1

Client Sample ID: MW20DD-012021

Date Collected: 01/20/21 00:00

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.058		0.020		ug/L			01/28/21 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		50 - 150					01/28/21 02:23	1
TBA-d9 (Surr)	100		50 - 150					01/28/21 02:23	1

Client Sample ID: MW5-012021

Date Collected: 01/20/21 09:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		50 - 150					01/28/21 02:47	1
TBA-d9 (Surr)	93		50 - 150					01/28/21 02:47	1

Client Sample ID: MW6-012021

Date Collected: 01/20/21 14:00

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.053		0.020		ug/L			01/28/21 03:12	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		50 - 150		01/28/21 03:12	1
TBA-d9 (Surr)	95		50 - 150		01/28/21 03:12	1

Client Sample ID: MW7-012021
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		50 - 150					01/28/21 03:36	1
TBA-d9 (Surr)	100		50 - 150					01/28/21 03:36	1

Client Sample ID: SW1-012021
Date Collected: 01/20/21 10:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		50 - 150					01/28/21 04:00	1
TBA-d9 (Surr)	97		50 - 150					01/28/21 04:00	1

Client Sample ID: SW4-012021
Date Collected: 01/20/21 11:20
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		50 - 150					01/28/21 04:24	1
TBA-d9 (Surr)	91		50 - 150					01/28/21 04:24	1

Client Sample ID: SW6-012021
Date Collected: 01/20/21 11:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 04:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		50 - 150					01/28/21 04:48	1
TBA-d9 (Surr)	98		50 - 150					01/28/21 04:48	1

Client Sample ID: SW7-012021
Date Collected: 01/20/21 12:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		50 - 150					01/28/21 05:12	1
TBA-d9 (Surr)	101		50 - 150					01/28/21 05:12	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: TB1
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/28/21 05:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		50 - 150					01/28/21 05:37	1
TBA-d9 (Surr)	97		50 - 150					01/28/21 05:37	1

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

Client Sample ID: MW12I-012021
Date Collected: 01/20/21 11:10
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 14:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 14:56	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 14:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 14:56	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 14:56	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 14:56	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 14:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 14:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 14:56	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 14:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 14:56	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 14:56	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 14:56	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 14:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 14:56	1
1,4-Dioxane	270		40		ug/L			01/28/21 14:56	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 14:56	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 14:56	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 14:56	1
2-Hexanone	ND		5.0		ug/L			01/28/21 14:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 14:56	1
Acetone	ND		10		ug/L			01/28/21 14:56	1
Acetonitrile	ND		15		ug/L			01/28/21 14:56	1
Acrolein	ND		20		ug/L			01/28/21 14:56	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 14:56	1
Benzene	ND		1.0		ug/L			01/28/21 14:56	1
Bromobenzene	ND		1.0		ug/L			01/28/21 14:56	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 14:56	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 14:56	1
Bromoform	ND		1.0		ug/L			01/28/21 14:56	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW12I-012021

Date Collected: 01/20/21 11:10

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			01/28/21 14:56	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 14:56	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 14:56	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 14:56	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 14:56	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 14:56	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 14:56	1
Chloroethane	ND		1.0		ug/L			01/28/21 14:56	1
Chloroform	ND		1.0		ug/L			01/28/21 14:56	1
Chloromethane	ND		1.0		ug/L			01/28/21 14:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 14:56	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 14:56	1
Cyclohexane	ND		1.0		ug/L			01/28/21 14:56	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 14:56	1
Dibromomethane	ND		1.0		ug/L			01/28/21 14:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 14:56	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 14:56	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 14:56	1
Ethyl ether	ND		1.0		ug/L			01/28/21 14:56	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 14:56	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 14:56	1
Hexane	ND		10		ug/L			01/28/21 14:56	1
Iodomethane	ND		1.0		ug/L			01/28/21 14:56	1
Isobutanol	ND		25		ug/L			01/28/21 14:56	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 14:56	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 14:56	1
Methyl acetate	ND		2.5		ug/L			01/28/21 14:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 14:56	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 14:56	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 14:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 14:56	1
Naphthalene	ND		1.0		ug/L			01/28/21 14:56	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 14:56	1
o-Xylene	ND		1.0		ug/L			01/28/21 14:56	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 14:56	1
p-Cymene	ND		1.0		ug/L			01/28/21 14:56	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
Styrene	ND		1.0		ug/L			01/28/21 14:56	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 14:56	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 14:56	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 14:56	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 14:56	1
Toluene	ND		1.0		ug/L			01/28/21 14:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 14:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 14:56	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW12I-012021

Date Collected: 01/20/21 11:10

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 14:56	1
Trichloroethene	ND		1.0		ug/L			01/28/21 14:56	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 14:56	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 14:56	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 14:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		01/28/21 14:56	1
4-Bromofluorobenzene (Surr)	100		73 - 120		01/28/21 14:56	1
Toluene-d8 (Surr)	100		80 - 120		01/28/21 14:56	1

Client Sample ID: MW13D-012021

Date Collected: 01/20/21 12:40

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 15:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 15:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 15:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 15:19	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 15:19	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 15:19	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 15:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 15:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 15:19	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 15:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 15:19	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 15:19	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 15:19	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 15:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 15:19	1
1,4-Dioxane	83		40		ug/L			01/28/21 15:19	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 15:19	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 15:19	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 15:19	1
2-Hexanone	ND		5.0		ug/L			01/28/21 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 15:19	1
Acetone	ND		10		ug/L			01/28/21 15:19	1
Acetonitrile	ND		15		ug/L			01/28/21 15:19	1
Acrolein	ND		20		ug/L			01/28/21 15:19	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW13D-012021

Date Collected: 01/20/21 12:40

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0		ug/L			01/28/21 15:19	1
Benzene	ND		1.0		ug/L			01/28/21 15:19	1
Bromobenzene	ND		1.0		ug/L			01/28/21 15:19	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 15:19	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 15:19	1
Bromoform	ND		1.0		ug/L			01/28/21 15:19	1
Bromomethane	ND		1.0		ug/L			01/28/21 15:19	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 15:19	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 15:19	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 15:19	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 15:19	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 15:19	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 15:19	1
Chloroethane	ND		1.0		ug/L			01/28/21 15:19	1
Chloroform	ND		1.0		ug/L			01/28/21 15:19	1
Chloromethane	ND		1.0		ug/L			01/28/21 15:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 15:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 15:19	1
Cyclohexane	ND		1.0		ug/L			01/28/21 15:19	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 15:19	1
Dibromomethane	ND		1.0		ug/L			01/28/21 15:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 15:19	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 15:19	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 15:19	1
Ethyl ether	ND		1.0		ug/L			01/28/21 15:19	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 15:19	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 15:19	1
Hexane	ND		10		ug/L			01/28/21 15:19	1
Iodomethane	ND		1.0		ug/L			01/28/21 15:19	1
Isobutanol	ND		25		ug/L			01/28/21 15:19	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 15:19	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 15:19	1
Methyl acetate	ND		2.5		ug/L			01/28/21 15:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 15:19	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 15:19	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 15:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 15:19	1
Naphthalene	ND		1.0		ug/L			01/28/21 15:19	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 15:19	1
o-Xylene	ND		1.0		ug/L			01/28/21 15:19	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 15:19	1
p-Cymene	ND		1.0		ug/L			01/28/21 15:19	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
Styrene	ND		1.0		ug/L			01/28/21 15:19	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 15:19	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW13D-012021

Date Collected: 01/20/21 12:40

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 15:19	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 15:19	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 15:19	1
Toluene	ND		1.0		ug/L			01/28/21 15:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 15:19	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 15:19	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 15:19	1
Trichloroethene	ND		1.0		ug/L			01/28/21 15:19	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 15:19	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 15:19	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 15:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		01/28/21 15:19	1
4-Bromofluorobenzene (Surr)	101		73 - 120		01/28/21 15:19	1
Toluene-d8 (Surr)	102		80 - 120		01/28/21 15:19	1

Client Sample ID: MW14-012021

Date Collected: 01/20/21 13:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 15:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 15:42	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 15:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 15:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 15:42	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 15:42	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 15:42	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 15:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 15:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 15:42	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 15:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 15:42	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 15:42	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 15:42	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 15:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 15:42	1
1,4-Dioxane	ND		40		ug/L			01/28/21 15:42	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 15:42	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 15:42	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW14-012021

Date Collected: 01/20/21 13:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 15:42	1
2-Hexanone	ND		5.0		ug/L			01/28/21 15:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 15:42	1
Acetone	ND		10		ug/L			01/28/21 15:42	1
Acetonitrile	ND		15		ug/L			01/28/21 15:42	1
Acrolein	ND		20		ug/L			01/28/21 15:42	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 15:42	1
Benzene	ND		1.0		ug/L			01/28/21 15:42	1
Bromobenzene	ND		1.0		ug/L			01/28/21 15:42	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 15:42	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 15:42	1
Bromoform	ND		1.0		ug/L			01/28/21 15:42	1
Bromomethane	ND		1.0		ug/L			01/28/21 15:42	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 15:42	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 15:42	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 15:42	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 15:42	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 15:42	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 15:42	1
Chloroethane	ND		1.0		ug/L			01/28/21 15:42	1
Chloroform	ND		1.0		ug/L			01/28/21 15:42	1
Chloromethane	ND		1.0		ug/L			01/28/21 15:42	1
cis-1,2-Dichloroethene	1.9		1.0		ug/L			01/28/21 15:42	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 15:42	1
Cyclohexane	ND		1.0		ug/L			01/28/21 15:42	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 15:42	1
Dibromomethane	ND		1.0		ug/L			01/28/21 15:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 15:42	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 15:42	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 15:42	1
Ethyl ether	ND		1.0		ug/L			01/28/21 15:42	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 15:42	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 15:42	1
Hexane	ND		10		ug/L			01/28/21 15:42	1
Iodomethane	ND		1.0		ug/L			01/28/21 15:42	1
Isobutanol	ND		25		ug/L			01/28/21 15:42	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 15:42	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 15:42	1
Methyl acetate	ND		2.5		ug/L			01/28/21 15:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 15:42	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 15:42	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 15:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 15:42	1
Naphthalene	ND		1.0		ug/L			01/28/21 15:42	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 15:42	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW14-012021

Date Collected: 01/20/21 13:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			01/28/21 15:42	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 15:42	1
p-Cymene	ND		1.0		ug/L			01/28/21 15:42	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
Styrene	ND		1.0		ug/L			01/28/21 15:42	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 15:42	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 15:42	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 15:42	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 15:42	1
Toluene	ND		1.0		ug/L			01/28/21 15:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 15:42	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 15:42	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 15:42	1
Trichloroethene	ND		1.0		ug/L			01/28/21 15:42	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 15:42	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 15:42	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 15:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		01/28/21 15:42	1
4-Bromofluorobenzene (Surr)	101		73 - 120		01/28/21 15:42	1
Toluene-d8 (Surr)	101		80 - 120		01/28/21 15:42	1

Client Sample ID: MW20DD-012021

Date Collected: 01/20/21 00:00

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 16:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 16:05	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 16:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 16:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 16:05	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 16:05	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 16:05	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 16:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 16:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 16:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 16:05	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 16:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:05	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 16:05	1
1,2-Dichloroethene, Total	2.0		2.0		ug/L			01/28/21 16:05	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 16:05	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 16:05	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW20DD-012021

Date Collected: 01/20/21 00:00

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:05	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 16:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:05	1
1,4-Dioxane	ND		40		ug/L			01/28/21 16:05	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 16:05	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 16:05	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 16:05	1
2-Hexanone	ND		5.0		ug/L			01/28/21 16:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 16:05	1
Acetone	ND		10		ug/L			01/28/21 16:05	1
Acetonitrile	ND		15		ug/L			01/28/21 16:05	1
Acrolein	ND		20		ug/L			01/28/21 16:05	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 16:05	1
Benzene	ND		1.0		ug/L			01/28/21 16:05	1
Bromobenzene	ND		1.0		ug/L			01/28/21 16:05	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 16:05	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 16:05	1
Bromoform	ND		1.0		ug/L			01/28/21 16:05	1
Bromomethane	ND		1.0		ug/L			01/28/21 16:05	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 16:05	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 16:05	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 16:05	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 16:05	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 16:05	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 16:05	1
Chloroethane	ND		1.0		ug/L			01/28/21 16:05	1
Chloroform	ND		1.0		ug/L			01/28/21 16:05	1
Chloromethane	ND		1.0		ug/L			01/28/21 16:05	1
cis-1,2-Dichloroethene	2.0		1.0		ug/L			01/28/21 16:05	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 16:05	1
Cyclohexane	ND		1.0		ug/L			01/28/21 16:05	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 16:05	1
Dibromomethane	ND		1.0		ug/L			01/28/21 16:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 16:05	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 16:05	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 16:05	1
Ethyl ether	ND		1.0		ug/L			01/28/21 16:05	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 16:05	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 16:05	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 16:05	1
Hexane	ND		10		ug/L			01/28/21 16:05	1
Iodomethane	ND		1.0		ug/L			01/28/21 16:05	1
Isobutanol	ND		25		ug/L			01/28/21 16:05	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 16:05	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 16:05	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 16:05	1
Methyl acetate	ND		2.5		ug/L			01/28/21 16:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 16:05	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 16:05	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW20DD-012021

Date Collected: 01/20/21 00:00

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			01/28/21 16:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 16:05	1
Naphthalene	ND		1.0		ug/L			01/28/21 16:05	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 16:05	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 16:05	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 16:05	1
o-Xylene	ND		1.0		ug/L			01/28/21 16:05	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 16:05	1
p-Cymene	ND		1.0		ug/L			01/28/21 16:05	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 16:05	1
Styrene	ND		1.0		ug/L			01/28/21 16:05	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 16:05	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 16:05	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 16:05	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 16:05	1
Toluene	ND		1.0		ug/L			01/28/21 16:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 16:05	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 16:05	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 16:05	1
Trichloroethene	ND		1.0		ug/L			01/28/21 16:05	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 16:05	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 16:05	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 16:05	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		01/28/21 16:05	1
4-Bromofluorobenzene (Surr)	102		73 - 120		01/28/21 16:05	1
Toluene-d8 (Surr)	103		80 - 120		01/28/21 16:05	1

Client Sample ID: MW5-012021

Date Collected: 01/20/21 09:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 16:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 16:29	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 16:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 16:29	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 16:29	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 16:29	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 16:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 16:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 16:29	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 16:29	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW5-012021
Date Collected: 01/20/21 09:55
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 16:29	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 16:29	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 16:29	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 16:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:29	1
1,4-Dioxane	ND		40		ug/L			01/28/21 16:29	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 16:29	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 16:29	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 16:29	1
2-Hexanone	ND		5.0		ug/L			01/28/21 16:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 16:29	1
Acetone	ND		10		ug/L			01/28/21 16:29	1
Acetonitrile	ND		15		ug/L			01/28/21 16:29	1
Acrolein	ND		20		ug/L			01/28/21 16:29	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 16:29	1
Benzene	ND		1.0		ug/L			01/28/21 16:29	1
Bromobenzene	ND		1.0		ug/L			01/28/21 16:29	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 16:29	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 16:29	1
Bromoform	ND		1.0		ug/L			01/28/21 16:29	1
Bromomethane	ND		1.0		ug/L			01/28/21 16:29	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 16:29	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 16:29	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 16:29	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 16:29	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 16:29	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 16:29	1
Chloroethane	ND		1.0		ug/L			01/28/21 16:29	1
Chloroform	ND		1.0		ug/L			01/28/21 16:29	1
Chloromethane	ND		1.0		ug/L			01/28/21 16:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 16:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 16:29	1
Cyclohexane	ND		1.0		ug/L			01/28/21 16:29	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 16:29	1
Dibromomethane	ND		1.0		ug/L			01/28/21 16:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 16:29	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 16:29	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 16:29	1
Ethyl ether	ND		1.0		ug/L			01/28/21 16:29	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 16:29	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 16:29	1
Hexane	ND		10		ug/L			01/28/21 16:29	1
Iodomethane	ND		1.0		ug/L			01/28/21 16:29	1
Isobutanol	ND		25		ug/L			01/28/21 16:29	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW5-012021
Date Collected: 01/20/21 09:55
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		1.0		ug/L			01/28/21 16:29	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 16:29	1
Methyl acetate	ND		2.5		ug/L			01/28/21 16:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 16:29	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 16:29	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 16:29	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 16:29	1
Naphthalene	ND		1.0		ug/L			01/28/21 16:29	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 16:29	1
o-Xylene	ND		1.0		ug/L			01/28/21 16:29	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 16:29	1
p-Cymene	ND		1.0		ug/L			01/28/21 16:29	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
Styrene	ND		1.0		ug/L			01/28/21 16:29	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 16:29	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 16:29	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 16:29	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 16:29	1
Toluene	ND		1.0		ug/L			01/28/21 16:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 16:29	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 16:29	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 16:29	1
Trichloroethene	ND		1.0		ug/L			01/28/21 16:29	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 16:29	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 16:29	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 16:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		01/28/21 16:29	1
4-Bromofluorobenzene (Surr)	102		73 - 120		01/28/21 16:29	1
Toluene-d8 (Surr)	101		80 - 120		01/28/21 16:29	1

Client Sample ID: MW6-012021
Date Collected: 01/20/21 14:00
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 16:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 16:52	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 16:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 16:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 16:52	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 16:52	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 16:52	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 16:52	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW6-012021
Date Collected: 01/20/21 14:00
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 16:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 16:52	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 16:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 16:52	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 16:52	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 16:52	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 16:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 16:52	1
1,4-Dioxane	ND		40		ug/L			01/28/21 16:52	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 16:52	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 16:52	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 16:52	1
2-Hexanone	ND		5.0		ug/L			01/28/21 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 16:52	1
Acetone	ND		10		ug/L			01/28/21 16:52	1
Acetonitrile	ND		15		ug/L			01/28/21 16:52	1
Acrolein	ND		20		ug/L			01/28/21 16:52	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 16:52	1
Benzene	ND		1.0		ug/L			01/28/21 16:52	1
Bromobenzene	ND		1.0		ug/L			01/28/21 16:52	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 16:52	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 16:52	1
Bromoform	ND		1.0		ug/L			01/28/21 16:52	1
Bromomethane	ND		1.0		ug/L			01/28/21 16:52	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 16:52	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 16:52	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 16:52	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 16:52	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 16:52	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 16:52	1
Chloroethane	ND		1.0		ug/L			01/28/21 16:52	1
Chloroform	ND		1.0		ug/L			01/28/21 16:52	1
Chloromethane	ND		1.0		ug/L			01/28/21 16:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 16:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 16:52	1
Cyclohexane	ND		1.0		ug/L			01/28/21 16:52	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 16:52	1
Dibromomethane	ND		1.0		ug/L			01/28/21 16:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 16:52	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 16:52	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 16:52	1
Ethyl ether	ND		1.0		ug/L			01/28/21 16:52	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW6-012021
Date Collected: 01/20/21 14:00
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 16:52	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 16:52	1
Hexane	ND		10		ug/L			01/28/21 16:52	1
Iodomethane	ND		1.0		ug/L			01/28/21 16:52	1
Isobutanol	ND		25		ug/L			01/28/21 16:52	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 16:52	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 16:52	1
Methyl acetate	ND		2.5		ug/L			01/28/21 16:52	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 16:52	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 16:52	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 16:52	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 16:52	1
Naphthalene	ND		1.0		ug/L			01/28/21 16:52	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 16:52	1
o-Xylene	ND		1.0		ug/L			01/28/21 16:52	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 16:52	1
p-Cymene	ND		1.0		ug/L			01/28/21 16:52	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
Styrene	ND		1.0		ug/L			01/28/21 16:52	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 16:52	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 16:52	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 16:52	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 16:52	1
Toluene	ND		1.0		ug/L			01/28/21 16:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 16:52	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 16:52	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 16:52	1
Trichloroethene	ND		1.0		ug/L			01/28/21 16:52	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 16:52	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 16:52	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 16:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		01/28/21 16:52	1
4-Bromofluorobenzene (Surr)	101		73 - 120		01/28/21 16:52	1
Toluene-d8 (Surr)	102		80 - 120		01/28/21 16:52	1

Client Sample ID: MW7-012021
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 17:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 17:15	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW7-012021
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 17:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 17:15	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 17:15	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 17:15	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 17:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 17:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 17:15	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 17:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 17:15	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 17:15	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 17:15	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 17:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 17:15	1
1,4-Dioxane	ND		40		ug/L			01/28/21 17:15	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 17:15	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 17:15	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 17:15	1
2-Hexanone	ND		5.0		ug/L			01/28/21 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 17:15	1
Acetone	ND		10		ug/L			01/28/21 17:15	1
Acetonitrile	ND		15		ug/L			01/28/21 17:15	1
Acrolein	ND		20		ug/L			01/28/21 17:15	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 17:15	1
Benzene	ND		1.0		ug/L			01/28/21 17:15	1
Bromobenzene	ND		1.0		ug/L			01/28/21 17:15	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 17:15	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 17:15	1
Bromoform	ND		1.0		ug/L			01/28/21 17:15	1
Bromomethane	ND		1.0		ug/L			01/28/21 17:15	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 17:15	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 17:15	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 17:15	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 17:15	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 17:15	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 17:15	1
Chloroethane	ND		1.0		ug/L			01/28/21 17:15	1
Chloroform	ND		1.0		ug/L			01/28/21 17:15	1
Chloromethane	ND		1.0		ug/L			01/28/21 17:15	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 17:15	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 17:15	1
Cyclohexane	ND		1.0		ug/L			01/28/21 17:15	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW7-012021
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0		ug/L			01/28/21 17:15	1
Dibromomethane	ND		1.0		ug/L			01/28/21 17:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 17:15	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 17:15	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 17:15	1
Ethyl ether	ND		1.0		ug/L			01/28/21 17:15	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 17:15	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 17:15	1
Hexane	ND		10		ug/L			01/28/21 17:15	1
Iodomethane	ND		1.0		ug/L			01/28/21 17:15	1
Isobutanol	ND		25		ug/L			01/28/21 17:15	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 17:15	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 17:15	1
Methyl acetate	ND		2.5		ug/L			01/28/21 17:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 17:15	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 17:15	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 17:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 17:15	1
Naphthalene	ND		1.0		ug/L			01/28/21 17:15	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 17:15	1
o-Xylene	ND		1.0		ug/L			01/28/21 17:15	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 17:15	1
p-Cymene	ND		1.0		ug/L			01/28/21 17:15	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
Styrene	ND		1.0		ug/L			01/28/21 17:15	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 17:15	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 17:15	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 17:15	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 17:15	1
Toluene	ND		1.0		ug/L			01/28/21 17:15	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 17:15	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 17:15	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 17:15	1
Trichloroethene	ND		1.0		ug/L			01/28/21 17:15	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 17:15	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 17:15	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 17:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		01/28/21 17:15	1
4-Bromofluorobenzene (Surr)	100		73 - 120		01/28/21 17:15	1
Toluene-d8 (Surr)	100		80 - 120		01/28/21 17:15	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW1-012021
Date Collected: 01/20/21 10:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 17:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 17:38	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 17:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 17:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 17:38	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 17:38	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 17:38	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 17:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 17:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 17:38	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 17:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 17:38	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 17:38	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 17:38	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 17:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 17:38	1
1,4-Dioxane	ND		40		ug/L			01/28/21 17:38	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 17:38	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 17:38	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 17:38	1
2-Hexanone	ND		5.0		ug/L			01/28/21 17:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 17:38	1
Acetone	ND		10		ug/L			01/28/21 17:38	1
Acetonitrile	ND		15		ug/L			01/28/21 17:38	1
Acrolein	ND		20		ug/L			01/28/21 17:38	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 17:38	1
Benzene	ND		1.0		ug/L			01/28/21 17:38	1
Bromobenzene	ND		1.0		ug/L			01/28/21 17:38	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 17:38	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 17:38	1
Bromoform	ND		1.0		ug/L			01/28/21 17:38	1
Bromomethane	ND		1.0		ug/L			01/28/21 17:38	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 17:38	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 17:38	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 17:38	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 17:38	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 17:38	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 17:38	1
Chloroethane	ND		1.0		ug/L			01/28/21 17:38	1
Chloroform	ND		1.0		ug/L			01/28/21 17:38	1
Chloromethane	ND		1.0		ug/L			01/28/21 17:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 17:38	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW1-012021
Date Collected: 01/20/21 10:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 17:38	1
Cyclohexane	ND		1.0		ug/L			01/28/21 17:38	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 17:38	1
Dibromomethane	ND		1.0		ug/L			01/28/21 17:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 17:38	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 17:38	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 17:38	1
Ethyl ether	ND		1.0		ug/L			01/28/21 17:38	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 17:38	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 17:38	1
Hexane	ND		10		ug/L			01/28/21 17:38	1
Iodomethane	ND		1.0		ug/L			01/28/21 17:38	1
Isobutanol	ND		25		ug/L			01/28/21 17:38	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 17:38	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 17:38	1
Methyl acetate	ND		2.5		ug/L			01/28/21 17:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 17:38	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 17:38	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 17:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 17:38	1
Naphthalene	ND		1.0		ug/L			01/28/21 17:38	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 17:38	1
o-Xylene	ND		1.0		ug/L			01/28/21 17:38	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 17:38	1
p-Cymene	ND		1.0		ug/L			01/28/21 17:38	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
Styrene	ND		1.0		ug/L			01/28/21 17:38	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 17:38	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 17:38	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 17:38	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 17:38	1
Toluene	ND		1.0		ug/L			01/28/21 17:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 17:38	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 17:38	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 17:38	1
Trichloroethene	ND		1.0		ug/L			01/28/21 17:38	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 17:38	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 17:38	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 17:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		01/28/21 17:38	1
4-Bromofluorobenzene (Surr)	101		73 - 120		01/28/21 17:38	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW1-012021
Date Collected: 01/20/21 10:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-8
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		01/28/21 17:38	1

Client Sample ID: SW4-012021
Date Collected: 01/20/21 11:20
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 18:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 18:01	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 18:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 18:01	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 18:01	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 18:01	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 18:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 18:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 18:01	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 18:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 18:01	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 18:01	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 18:01	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 18:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:01	1
1,4-Dioxane	ND		40		ug/L			01/28/21 18:01	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 18:01	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 18:01	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 18:01	1
2-Hexanone	ND		5.0		ug/L			01/28/21 18:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 18:01	1
Acetone	ND		10		ug/L			01/28/21 18:01	1
Acetonitrile	ND		15		ug/L			01/28/21 18:01	1
Acrolein	ND		20		ug/L			01/28/21 18:01	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 18:01	1
Benzene	ND		1.0		ug/L			01/28/21 18:01	1
Bromobenzene	ND		1.0		ug/L			01/28/21 18:01	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 18:01	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 18:01	1
Bromoform	ND		1.0		ug/L			01/28/21 18:01	1
Bromomethane	ND		1.0		ug/L			01/28/21 18:01	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 18:01	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 18:01	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 18:01	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 18:01	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW4-012021
Date Collected: 01/20/21 11:20
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			01/28/21 18:01	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 18:01	1
Chloroethane	ND		1.0		ug/L			01/28/21 18:01	1
Chloroform	ND		1.0		ug/L			01/28/21 18:01	1
Chloromethane	ND		1.0		ug/L			01/28/21 18:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 18:01	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 18:01	1
Cyclohexane	ND		1.0		ug/L			01/28/21 18:01	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 18:01	1
Dibromomethane	ND		1.0		ug/L			01/28/21 18:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 18:01	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 18:01	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 18:01	1
Ethyl ether	ND		1.0		ug/L			01/28/21 18:01	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 18:01	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 18:01	1
Hexane	ND		10		ug/L			01/28/21 18:01	1
Iodomethane	ND		1.0		ug/L			01/28/21 18:01	1
Isobutanol	ND		25		ug/L			01/28/21 18:01	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 18:01	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 18:01	1
Methyl acetate	ND		2.5		ug/L			01/28/21 18:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 18:01	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 18:01	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 18:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 18:01	1
Naphthalene	ND		1.0		ug/L			01/28/21 18:01	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 18:01	1
o-Xylene	ND		1.0		ug/L			01/28/21 18:01	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 18:01	1
p-Cymene	ND		1.0		ug/L			01/28/21 18:01	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
Styrene	ND		1.0		ug/L			01/28/21 18:01	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 18:01	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 18:01	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 18:01	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 18:01	1
Toluene	ND		1.0		ug/L			01/28/21 18:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 18:01	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 18:01	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 18:01	1
Trichloroethene	ND		1.0		ug/L			01/28/21 18:01	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 18:01	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 18:01	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 18:01	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Method: 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		01/28/21 18:01	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)	106		77 - 120					01/28/21 18:01	1
4-Bromofluorobenzene (Surr)	102		73 - 120					01/28/21 18:01	1
Toluene-d8 (Surr)	101		80 - 120					01/28/21 18:01	1

Client Sample ID: SW6-012021
Date Collected: 01/20/21 11:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 18:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 18:24	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 18:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 18:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 18:24	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 18:24	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 18:24	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 18:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 18:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 18:24	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 18:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 18:24	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 18:24	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 18:24	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 18:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:24	1
1,4-Dioxane	ND		40		ug/L			01/28/21 18:24	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 18:24	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 18:24	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 18:24	1
2-Hexanone	ND		5.0		ug/L			01/28/21 18:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 18:24	1
Acetone	ND		10		ug/L			01/28/21 18:24	1
Acetonitrile	ND		15		ug/L			01/28/21 18:24	1
Acrolein	ND		20		ug/L			01/28/21 18:24	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 18:24	1
Benzene	ND		1.0		ug/L			01/28/21 18:24	1
Bromobenzene	ND		1.0		ug/L			01/28/21 18:24	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 18:24	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 18:24	1
Bromoform	ND		1.0		ug/L			01/28/21 18:24	1
Bromomethane	ND		1.0		ug/L			01/28/21 18:24	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 18:24	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 18:24	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW6-012021
Date Collected: 01/20/21 11:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0		ug/L			01/28/21 18:24	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 18:24	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 18:24	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 18:24	1
Chloroethane	ND		1.0		ug/L			01/28/21 18:24	1
Chloroform	ND		1.0		ug/L			01/28/21 18:24	1
Chloromethane	ND		1.0		ug/L			01/28/21 18:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 18:24	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 18:24	1
Cyclohexane	ND		1.0		ug/L			01/28/21 18:24	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 18:24	1
Dibromomethane	ND		1.0		ug/L			01/28/21 18:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 18:24	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 18:24	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 18:24	1
Ethyl ether	ND		1.0		ug/L			01/28/21 18:24	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 18:24	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 18:24	1
Hexane	ND		10		ug/L			01/28/21 18:24	1
Iodomethane	ND		1.0		ug/L			01/28/21 18:24	1
Isobutanol	ND		25		ug/L			01/28/21 18:24	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 18:24	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 18:24	1
Methyl acetate	ND		2.5		ug/L			01/28/21 18:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 18:24	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 18:24	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 18:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 18:24	1
Naphthalene	ND		1.0		ug/L			01/28/21 18:24	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 18:24	1
o-Xylene	ND		1.0		ug/L			01/28/21 18:24	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 18:24	1
p-Cymene	ND		1.0		ug/L			01/28/21 18:24	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
Styrene	ND		1.0		ug/L			01/28/21 18:24	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 18:24	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 18:24	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 18:24	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 18:24	1
Toluene	ND		1.0		ug/L			01/28/21 18:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 18:24	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 18:24	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 18:24	1
Trichloroethene	ND		1.0		ug/L			01/28/21 18:24	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 18:24	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW6-012021
Date Collected: 01/20/21 11:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		5.0		ug/L			01/28/21 18:24	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 18:24	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					01/28/21 18:24	1
4-Bromofluorobenzene (Surr)	100		73 - 120					01/28/21 18:24	1
Toluene-d8 (Surr)	102		80 - 120					01/28/21 18:24	1

Client Sample ID: SW7-012021
Date Collected: 01/20/21 12:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 18:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 18:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 18:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 18:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 18:47	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 18:47	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 18:47	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 18:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 18:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 18:47	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 18:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 18:47	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 18:47	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 18:47	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 18:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 18:47	1
1,4-Dioxane	ND		40		ug/L			01/28/21 18:47	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 18:47	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 18:47	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 18:47	1
2-Hexanone	ND		5.0		ug/L			01/28/21 18:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 18:47	1
Acetone	ND		10		ug/L			01/28/21 18:47	1
Acetonitrile	ND		15		ug/L			01/28/21 18:47	1
Acrolein	ND		20		ug/L			01/28/21 18:47	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 18:47	1
Benzene	ND		1.0		ug/L			01/28/21 18:47	1
Bromobenzene	ND		1.0		ug/L			01/28/21 18:47	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW7-012021
Date Collected: 01/20/21 12:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.0		ug/L			01/28/21 18:47	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 18:47	1
Bromoform	ND		1.0		ug/L			01/28/21 18:47	1
Bromomethane	ND		1.0		ug/L			01/28/21 18:47	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 18:47	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 18:47	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 18:47	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 18:47	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 18:47	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 18:47	1
Chloroethane	ND		1.0		ug/L			01/28/21 18:47	1
Chloroform	ND		1.0		ug/L			01/28/21 18:47	1
Chloromethane	ND		1.0		ug/L			01/28/21 18:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 18:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 18:47	1
Cyclohexane	ND		1.0		ug/L			01/28/21 18:47	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 18:47	1
Dibromomethane	ND		1.0		ug/L			01/28/21 18:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 18:47	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 18:47	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 18:47	1
Ethyl ether	ND		1.0		ug/L			01/28/21 18:47	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 18:47	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 18:47	1
Hexane	ND		10		ug/L			01/28/21 18:47	1
Iodomethane	ND		1.0		ug/L			01/28/21 18:47	1
Isobutanol	ND		25		ug/L			01/28/21 18:47	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 18:47	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 18:47	1
Methyl acetate	ND		2.5		ug/L			01/28/21 18:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 18:47	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 18:47	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 18:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 18:47	1
Naphthalene	ND		1.0		ug/L			01/28/21 18:47	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 18:47	1
o-Xylene	ND		1.0		ug/L			01/28/21 18:47	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 18:47	1
p-Cymene	ND		1.0		ug/L			01/28/21 18:47	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
Styrene	ND		1.0		ug/L			01/28/21 18:47	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 18:47	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 18:47	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 18:47	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 18:47	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: SW7-012021
Date Collected: 01/20/21 12:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			01/28/21 18:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 18:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 18:47	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 18:47	1
Trichloroethene	ND		1.0		ug/L			01/28/21 18:47	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 18:47	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 18:47	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 18:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		01/28/21 18:47	1
4-Bromofluorobenzene (Surr)	101		73 - 120		01/28/21 18:47	1
Toluene-d8 (Surr)	101		80 - 120		01/28/21 18:47	1

Client Sample ID: TB1
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 19:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 19:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 19:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 19:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 19:10	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 19:10	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 19:10	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 19:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 19:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 19:10	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 19:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 19:10	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 19:10	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 19:10	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 19:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 19:10	1
1,4-Dioxane	ND		40		ug/L			01/28/21 19:10	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 19:10	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 19:10	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 19:10	1
2-Hexanone	ND		5.0		ug/L			01/28/21 19:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 19:10	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: TB1
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			01/28/21 19:10	1
Acetonitrile	ND		15		ug/L			01/28/21 19:10	1
Acrolein	ND		20		ug/L			01/28/21 19:10	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 19:10	1
Benzene	ND		1.0		ug/L			01/28/21 19:10	1
Bromobenzene	ND		1.0		ug/L			01/28/21 19:10	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 19:10	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 19:10	1
Bromoform	ND		1.0		ug/L			01/28/21 19:10	1
Bromomethane	ND		1.0		ug/L			01/28/21 19:10	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 19:10	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 19:10	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 19:10	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 19:10	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 19:10	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 19:10	1
Chloroethane	ND		1.0		ug/L			01/28/21 19:10	1
Chloroform	ND		1.0		ug/L			01/28/21 19:10	1
Chloromethane	ND		1.0		ug/L			01/28/21 19:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 19:10	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 19:10	1
Cyclohexane	ND		1.0		ug/L			01/28/21 19:10	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 19:10	1
Dibromomethane	ND		1.0		ug/L			01/28/21 19:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 19:10	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 19:10	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 19:10	1
Ethyl ether	ND		1.0		ug/L			01/28/21 19:10	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 19:10	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 19:10	1
Hexane	ND		10		ug/L			01/28/21 19:10	1
Iodomethane	ND		1.0		ug/L			01/28/21 19:10	1
Isobutanol	ND		25		ug/L			01/28/21 19:10	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 19:10	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 19:10	1
Methyl acetate	ND		2.5		ug/L			01/28/21 19:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 19:10	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 19:10	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 19:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 19:10	1
Naphthalene	ND		1.0		ug/L			01/28/21 19:10	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 19:10	1
o-Xylene	ND		1.0		ug/L			01/28/21 19:10	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 19:10	1
p-Cymene	ND		1.0		ug/L			01/28/21 19:10	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: TB1
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
Styrene	ND		1.0		ug/L			01/28/21 19:10	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 19:10	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 19:10	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 19:10	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 19:10	1
Toluene	ND		1.0		ug/L			01/28/21 19:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 19:10	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 19:10	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 19:10	1
Trichloroethene	ND		1.0		ug/L			01/28/21 19:10	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 19:10	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 19:10	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 19:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachloroethane TIC	ND		ug/L			67-72-1		01/28/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		01/28/21 19:10	1
4-Bromofluorobenzene (Surr)	102		73 - 120		01/28/21 19:10	1
Toluene-d8 (Surr)	103		80 - 120		01/28/21 19:10	1

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

Client Sample ID: MW12I-012021
Date Collected: 01/20/21 11:10
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	23		1.0		ug/L		02/03/21 16:00	02/04/21 09:31	1

Client Sample ID: MW13D-012021
Date Collected: 01/20/21 12:40
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.6		1.0		ug/L		02/03/21 16:00	02/04/21 09:48	1

Client Sample ID: MW14-012021
Date Collected: 01/20/21 13:55
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1500		1.0		ug/L		02/03/21 16:00	02/04/21 09:52	1

Client Sample ID: MW20DD-012021
Date Collected: 01/20/21 00:00
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1500		1.0		ug/L		02/03/21 16:00	02/04/21 10:03	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Client Sample ID: MW5-012021
Date Collected: 01/20/21 09:55
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		02/03/21 16:00	02/04/21 10:06	1

Client Sample ID: MW6-012021
Date Collected: 01/20/21 14:00
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	300		1.0		ug/L		02/03/21 16:00	02/04/21 10:10	1

Client Sample ID: MW7-012021
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		1.0		ug/L		02/03/21 16:00	02/04/21 10:13	1

Client Sample ID: SW1-012021
Date Collected: 01/20/21 10:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		02/03/21 16:00	02/04/21 10:17	1

Client Sample ID: SW4-012021
Date Collected: 01/20/21 11:20
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	52		1.0		ug/L		02/03/21 16:00	02/04/21 10:20	1

Client Sample ID: SW6-012021
Date Collected: 01/20/21 11:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	39		1.0		ug/L		02/03/21 16:00	02/04/21 10:24	1

Client Sample ID: SW7-012021
Date Collected: 01/20/21 12:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.1		1.0		ug/L		02/03/21 16:00	02/04/21 10:28	1

General Chemistry

Client Sample ID: MW12I-012021
Date Collected: 01/20/21 11:10
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			02/11/21 20:37	1
Sulfate	ND		5.0		mg/L			02/11/21 20:37	1
Ammonia as N	ND		0.030		mg/L			02/05/21 13:28	1
Total Alkalinity	65		10		mg/L			01/26/21 19:29	1
Bicarbonate Alkalinity	65		10		mg/L			01/26/21 19:29	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 19:29	1
Total Organic Carbon - Average	2.2		1.0		mg/L			02/01/21 18:59	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

General Chemistry

Client Sample ID: MW13D-012021

Date Collected: 01/20/21 12:40

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		3.0		mg/L			02/11/21 20:53	1
Sulfate	15		5.0		mg/L			02/11/21 20:53	1
Ammonia as N	ND		0.030		mg/L			02/05/21 13:36	1
Total Alkalinity	73		10		mg/L			01/26/21 19:35	1
Bicarbonate Alkalinity	73		10		mg/L			01/26/21 19:35	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 19:35	1
Total Organic Carbon - Average	ND		1.0		mg/L			02/01/21 19:13	1

Client Sample ID: MW14-012021

Date Collected: 01/20/21 13:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			02/11/21 21:10	1
Sulfate	7.0		5.0		mg/L			02/11/21 21:10	1
Ammonia as N	ND		0.030		mg/L			02/05/21 13:38	1
Total Alkalinity	100		10		mg/L			01/27/21 03:41	1
Bicarbonate Alkalinity	100		10		mg/L			01/27/21 03:41	1
Carbonate Alkalinity	ND		10		mg/L			01/27/21 03:41	1
Total Organic Carbon - Average	1.3		1.0		mg/L			02/01/21 19:58	1

Client Sample ID: MW20DD-012021

Date Collected: 01/20/21 00:00

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			02/11/21 22:48	1
Sulfate	7.0		5.0		mg/L			02/11/21 22:48	1
Ammonia as N	0.037		0.030		mg/L			02/05/21 13:40	1
Total Alkalinity	91		10		mg/L			01/26/21 19:41	1
Bicarbonate Alkalinity	91		10		mg/L			01/26/21 19:41	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 19:41	1
Total Organic Carbon - Average	1.3		1.0		mg/L			02/01/21 20:12	1

Client Sample ID: MW5-012021

Date Collected: 01/20/21 09:55

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			02/11/21 23:05	1
Sulfate	7.6		5.0		mg/L			02/11/21 23:05	1
Ammonia as N	ND		0.030		mg/L			02/05/21 13:42	1
Total Alkalinity	71		10		mg/L			01/26/21 19:47	1
Bicarbonate Alkalinity	71		10		mg/L			01/26/21 19:47	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 19:47	1
Total Organic Carbon - Average	ND		1.0		mg/L			02/01/21 20:27	1

Client Sample ID: MW6-012021

Date Collected: 01/20/21 14:00

Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		3.0		mg/L			02/11/21 23:21	1
Sulfate	19		5.0		mg/L			02/11/21 23:21	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

General Chemistry (Continued)

Client Sample ID: MW6-012021
Date Collected: 01/20/21 14:00
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.030		mg/L			02/05/21 13:44	1
Total Alkalinity	160		10		mg/L			01/26/21 19:53	1
Bicarbonate Alkalinity	160		10		mg/L			01/26/21 19:53	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 19:53	1
Total Organic Carbon - Average	1.2		1.0		mg/L			02/01/21 20:42	1

Client Sample ID: MW7-012021
Date Collected: 01/20/21 08:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/L			02/11/21 23:54	1
Sulfate	ND		5.0		mg/L			02/11/21 23:54	1
Ammonia as N	ND		0.030		mg/L			02/05/21 13:46	1
Total Alkalinity	120		10		mg/L			01/26/21 19:59	1
Bicarbonate Alkalinity	120		10		mg/L			01/26/21 19:59	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 19:59	1
Total Organic Carbon - Average	1.8		1.0		mg/L			02/01/21 21:25	1

Client Sample ID: SW1-012021
Date Collected: 01/20/21 10:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		3.0		mg/L			02/11/21 23:37	1
Sulfate	8.1		5.0		mg/L			02/11/21 23:37	1
Ammonia as N	ND		0.030		mg/L			02/05/21 14:00	1
Total Alkalinity	70		10		mg/L			01/26/21 20:05	1
Bicarbonate Alkalinity	70		10		mg/L			01/26/21 20:05	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 20:05	1
Total Organic Carbon - Average	2.6		1.0		mg/L			02/01/21 21:40	1

Client Sample ID: SW4-012021
Date Collected: 01/20/21 11:20
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		3.0		mg/L			02/12/21 00:10	1
Sulfate	15		5.0		mg/L			02/12/21 00:10	1
Ammonia as N	ND		0.030		mg/L			02/05/21 14:02	1
Total Alkalinity	130		10		mg/L			01/26/21 20:38	1
Bicarbonate Alkalinity	130		10		mg/L			01/26/21 20:38	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 20:38	1
Total Organic Carbon - Average	10		1.0		mg/L			02/01/21 21:55	1

Client Sample ID: SW6-012021
Date Collected: 01/20/21 11:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		3.0		mg/L			02/12/21 00:27	1
Sulfate	5.5		5.0		mg/L			02/12/21 00:27	1
Ammonia as N	ND		0.030		mg/L			02/05/21 14:10	1
Total Alkalinity	42		10		mg/L			01/26/21 20:50	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

General Chemistry (Continued)

Client Sample ID: SW6-012021
Date Collected: 01/20/21 11:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity	42		10		mg/L			01/26/21 20:50	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 20:50	1
Total Organic Carbon - Average	21		1.0		mg/L			02/01/21 22:10	1

Client Sample ID: SW7-012021
Date Collected: 01/20/21 12:45
Date Received: 01/22/21 10:00

Lab Sample ID: 280-144864-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		3.0		mg/L			02/12/21 00:43	1
Sulfate	6.2		5.0		mg/L			02/12/21 00:43	1
Ammonia as N	ND		0.030		mg/L			02/05/21 14:04	1
Total Alkalinity	37		10		mg/L			01/26/21 20:56	1
Bicarbonate Alkalinity	37		10		mg/L			01/26/21 20:56	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 20:56	1
Total Organic Carbon - Average	11		1.0		mg/L			02/01/21 22:25	1

Surrogate Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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)
280-144864-1	MW12I-012021	105	100	100
280-144864-2	MW13D-012021	105	101	102
280-144864-3	MW14-012021	106	101	101
280-144864-4	MW20DD-012021	107	102	103
280-144864-5	MW5-012021	106	102	101
280-144864-6	MW6-012021	107	101	102
280-144864-7	MW7-012021	107	100	100
280-144864-8	SW1-012021	106	101	102
280-144864-9	SW4-012021	106	102	101
280-144864-10	SW6-012021	107	100	102
280-144864-11	SW7-012021	108	101	101
280-144864-12	TB1	106	102	103
480-180563-I-5 MS	Matrix Spike	108	103	102
480-180563-I-5 MSD	Matrix Spike Duplicate	106	104	102
LCS 480-567551/5	Lab Control Sample	105	104	103
MB 480-567551/8	Method Blank	103	105	103

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)
280-144864-1	MW12I-012021	104	95
280-144864-2	MW13D-012021	107	95
280-144864-3	MW14-012021	105	95
280-144864-4	MW20DD-012021	107	100
280-144864-5	MW5-012021	108	93
280-144864-6	MW6-012021	107	95
280-144864-7	MW7-012021	108	100
280-144864-8	SW1-012021	108	97
280-144864-9	SW4-012021	107	91
280-144864-10	SW6-012021	110	98
280-144864-11	SW7-012021	108	101
280-144864-12	TB1	108	97
LCS 480-567511/5	Lab Control Sample	100	91
LCSD 480-567511/6	Lab Control Sample Dup	101	104
MB 480-567511/24	Method Blank	110	92

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TBA = TBA-d9 (Surr)

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: MB 480-567551/8

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 11:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/28/21 11:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			01/28/21 11:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			01/28/21 11:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/28/21 11:19	1
1,1-Dichloroethane	ND		1.0		ug/L			01/28/21 11:19	1
1,1-Dichloroethene	ND		1.0		ug/L			01/28/21 11:19	1
1,1-Dichloropropene	ND		1.0		ug/L			01/28/21 11:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/28/21 11:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/28/21 11:19	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/28/21 11:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,2-Dichloroethane	ND		1.0		ug/L			01/28/21 11:19	1
1,2-Dichloroethene, Total	ND		2.0		ug/L			01/28/21 11:19	1
1,2-Dichloropropane	ND		1.0		ug/L			01/28/21 11:19	1
1,3,5-Trichlorobenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,3-Dichloropropane	ND		1.0		ug/L			01/28/21 11:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/28/21 11:19	1
1,4-Dioxane	ND		40		ug/L			01/28/21 11:19	1
2,2-Dichloropropane	ND		1.0		ug/L			01/28/21 11:19	1
2-Butanone (MEK)	ND		10		ug/L			01/28/21 11:19	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			01/28/21 11:19	1
2-Hexanone	ND		5.0		ug/L			01/28/21 11:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			01/28/21 11:19	1
Acetone	ND		10		ug/L			01/28/21 11:19	1
Acetonitrile	ND		15		ug/L			01/28/21 11:19	1
Acrolein	ND		20		ug/L			01/28/21 11:19	1
Acrylonitrile	ND		5.0		ug/L			01/28/21 11:19	1
Benzene	ND		1.0		ug/L			01/28/21 11:19	1
Bromobenzene	ND		1.0		ug/L			01/28/21 11:19	1
Bromochloromethane	ND		1.0		ug/L			01/28/21 11:19	1
Bromodichloromethane	ND		1.0		ug/L			01/28/21 11:19	1
Bromoform	ND		1.0		ug/L			01/28/21 11:19	1
Bromomethane	ND		1.0		ug/L			01/28/21 11:19	1
Butyl alcohol, n-	ND		40		ug/L			01/28/21 11:19	1
Butyl alcohol, tert-	ND		10		ug/L			01/28/21 11:19	1
Carbon disulfide	ND		1.0		ug/L			01/28/21 11:19	1
Carbon tetrachloride	ND		1.0		ug/L			01/28/21 11:19	1
Chlorobenzene	ND		1.0		ug/L			01/28/21 11:19	1
Chlorodifluoromethane	ND		1.0		ug/L			01/28/21 11:19	1
Chloroethane	ND		1.0		ug/L			01/28/21 11:19	1
Chloroform	ND		1.0		ug/L			01/28/21 11:19	1
Chloromethane	ND		1.0		ug/L			01/28/21 11:19	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: MB 480-567551/8

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 11:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 11:19	1
Cyclohexane	ND		1.0		ug/L			01/28/21 11:19	1
Dibromochloromethane	ND		1.0		ug/L			01/28/21 11:19	1
Dibromomethane	ND		1.0		ug/L			01/28/21 11:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/28/21 11:19	1
Dichlorofluoromethane	ND		1.0		ug/L			01/28/21 11:19	1
Ethyl acetate	ND		1.0		ug/L			01/28/21 11:19	1
Ethyl ether	ND		1.0		ug/L			01/28/21 11:19	1
Ethyl tert-butyl ether	ND		1.0		ug/L			01/28/21 11:19	1
Ethylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
Hexachlorobutadiene	ND		2.0		ug/L			01/28/21 11:19	1
Hexane	ND		10		ug/L			01/28/21 11:19	1
Iodomethane	ND		1.0		ug/L			01/28/21 11:19	1
Isobutanol	ND		25		ug/L			01/28/21 11:19	1
Isopropyl ether	ND		1.0		ug/L			01/28/21 11:19	1
Isopropylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
Methacrylonitrile	ND		5.0		ug/L			01/28/21 11:19	1
Methyl acetate	ND		2.5		ug/L			01/28/21 11:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/28/21 11:19	1
Methylcyclohexane	ND		1.0		ug/L			01/28/21 11:19	1
Methylene Chloride	ND		1.0		ug/L			01/28/21 11:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/28/21 11:19	1
Naphthalene	ND		1.0		ug/L			01/28/21 11:19	1
n-Butylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
N-Propylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
o-Chlorotoluene	ND		1.0		ug/L			01/28/21 11:19	1
o-Xylene	ND		1.0		ug/L			01/28/21 11:19	1
p-Chlorotoluene	ND		1.0		ug/L			01/28/21 11:19	1
p-Cymene	ND		1.0		ug/L			01/28/21 11:19	1
sec-Butylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
Styrene	ND		1.0		ug/L			01/28/21 11:19	1
Tert-amyl methyl ether	ND		1.0		ug/L			01/28/21 11:19	1
tert-Butylbenzene	ND		1.0		ug/L			01/28/21 11:19	1
Tetrachloroethene	ND		1.0		ug/L			01/28/21 11:19	1
Tetrahydrofuran	ND		5.0		ug/L			01/28/21 11:19	1
Toluene	ND		1.0		ug/L			01/28/21 11:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/28/21 11:19	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/28/21 11:19	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			01/28/21 11:19	1
Trichloroethene	ND		1.0		ug/L			01/28/21 11:19	1
Trichlorofluoromethane	ND		1.0		ug/L			01/28/21 11:19	1
Vinyl acetate	ND		5.0		ug/L			01/28/21 11:19	1
Vinyl chloride	ND		1.0		ug/L			01/28/21 11:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		01/28/21 11:19	1
4-Bromofluorobenzene (Surr)	105		73 - 120		01/28/21 11:19	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: MB 480-567551/8

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		01/28/21 11:19	1

Lab Sample ID: LCS 480-567551/5

Matrix: Water

Analysis Batch: 567551

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	28.0		ug/L		112	80 - 120
1,1,1-Trichloroethane	25.0	27.0		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.2		ug/L		93	61 - 148
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	25.9		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	26.1		ug/L		104	66 - 127
1,1-Dichloropropene	25.0	26.6		ug/L		106	72 - 122
1,2,3-Trichlorobenzene	25.0	24.8		ug/L		99	75 - 123
1,2,3-Trichloropropane	25.0	24.9		ug/L		99	68 - 122
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		101	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	56 - 134
1,2-Dibromoethane (EDB)	25.0	26.6		ug/L		107	77 - 120
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	26.1		ug/L		105	75 - 120
1,2-Dichloroethene, Total	50.0	51.6		ug/L		103	72 - 124
1,2-Dichloropropane	25.0	25.1		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	77 - 121
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,3-Dichloropropane	25.0	26.3		ug/L		105	75 - 120
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 120
1,4-Dioxane	500	489		ug/L		98	50 - 150
2,2-Dichloropropane	25.0	24.3		ug/L		97	63 - 136
2-Butanone (MEK)	125	135		ug/L		108	57 - 140
2-Chloroethyl vinyl ether	25.0	22.4		ug/L		90	70 - 129
2-Hexanone	125	133		ug/L		106	65 - 127
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	71 - 125
Acetone	125	138		ug/L		111	56 - 142
Acrolein	125	177		ug/L		142	52 - 143
Acrylonitrile	250	253		ug/L		101	63 - 125
Benzene	25.0	25.2		ug/L		101	71 - 124
Bromobenzene	25.0	26.0		ug/L		104	78 - 120
Bromochloromethane	25.0	27.3		ug/L		109	72 - 130
Bromodichloromethane	25.0	27.7		ug/L		111	80 - 122
Bromoform	25.0	27.7		ug/L		111	61 - 132
Bromomethane	25.0	23.2		ug/L		93	55 - 144
Butyl alcohol, tert-	250	240		ug/L		96	75 - 125
Carbon disulfide	25.0	23.4		ug/L		94	59 - 134
Carbon tetrachloride	25.0	27.0		ug/L		108	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: LCS 480-567551/5

Matrix: Water

Analysis Batch: 567551

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	21.7		ug/L		87	69 - 136
Chloroform	25.0	25.1		ug/L		101	73 - 127
Chloromethane	25.0	21.8		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	74 - 124
Cyclohexane	25.0	26.2		ug/L		105	59 - 135
Dibromochloromethane	25.0	27.9		ug/L		111	75 - 125
Dibromomethane	25.0	27.2		ug/L		109	76 - 127
Dichlorodifluoromethane	25.0	20.0		ug/L		80	59 - 135
Dichlorofluoromethane	25.0	24.1		ug/L		97	76 - 127
Ethyl ether	25.0	24.6		ug/L		99	76 - 123
Ethylbenzene	25.0	26.1		ug/L		104	77 - 123
Hexachlorobutadiene	25.0	26.8		ug/L		107	68 - 131
Hexane	25.0	26.1		ug/L		104	54 - 146
Iodomethane	25.0	24.1		ug/L		96	78 - 123
Isobutanol	625	601		ug/L		96	51 - 150
Isopropylbenzene	25.0	25.6		ug/L		102	77 - 122
Methyl acetate	50.0	51.1		ug/L		102	74 - 133
Methyl tert-butyl ether	25.0	24.6		ug/L		98	77 - 120
Methylcyclohexane	25.0	26.0		ug/L		104	68 - 134
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
m-Xylene & p-Xylene	25.0	25.6		ug/L		102	76 - 122
Naphthalene	25.0	23.7		ug/L		95	66 - 125
n-Butylbenzene	25.0	26.0		ug/L		104	71 - 128
N-Propylbenzene	25.0	25.4		ug/L		101	75 - 127
o-Chlorotoluene	25.0	25.4		ug/L		102	76 - 121
o-Xylene	25.0	26.0		ug/L		104	76 - 122
p-Chlorotoluene	25.0	25.4		ug/L		102	77 - 121
p-Cymene	25.0	25.3		ug/L		101	73 - 120
sec-Butylbenzene	25.0	25.4		ug/L		101	74 - 127
Styrene	25.0	26.6		ug/L		107	80 - 120
tert-Butylbenzene	25.0	24.8		ug/L		99	75 - 123
Tetrachloroethene	25.0	27.6		ug/L		111	74 - 122
Tetrahydrofuran	50.0	48.4		ug/L		97	62 - 132
Toluene	25.0	25.6		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	25.9		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	26.1		ug/L		105	80 - 120
trans-1,4-Dichloro-2-butene	25.0	23.6		ug/L		94	41 - 131
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	25.7		ug/L		103	62 - 150
Vinyl acetate	50.0	53.0		ug/L		106	50 - 144
Vinyl chloride	25.0	22.3		ug/L		89	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	103		80 - 120

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: 480-180563-I-5 MS

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		1000	1130		ug/L		113	80 - 120
1,1,1-Trichloroethane	ND		1000	1190		ug/L		119	73 - 126
1,1,2,2-Tetrachloroethane	ND		1000	1030		ug/L		103	76 - 120
1,1,2-Trichloroethane	ND		1000	1070		ug/L		107	76 - 122
1,1-Dichloroethane	240		1000	1290		ug/L		105	77 - 120
1,1-Dichloroethene	ND		1000	1150		ug/L		112	66 - 127
1,1-Dichloropropene	ND		1000	1130		ug/L		113	72 - 122
1,2,3-Trichlorobenzene	ND		1000	994		ug/L		99	75 - 123
1,2,3-Trichloropropane	ND		1000	1050		ug/L		105	68 - 122
1,2,4-Trichlorobenzene	ND		1000	1030		ug/L		103	79 - 122
1,2,4-Trimethylbenzene	ND		1000	1030		ug/L		103	76 - 121
1,2-Dibromo-3-Chloropropane	ND		1000	1040		ug/L		104	56 - 134
1,2-Dibromoethane (EDB)	ND		1000	1090		ug/L		109	77 - 120
1,2-Dichlorobenzene	ND		1000	1010		ug/L		101	80 - 124
1,2-Dichloroethane	ND		1000	1110		ug/L		111	75 - 120
1,2-Dichloroethene, Total	1500		2000	3400		ug/L		95	72 - 124
1,2-Dichloropropane	ND		1000	1050		ug/L		105	76 - 120
1,3,5-Trimethylbenzene	ND		1000	1030		ug/L		103	77 - 121
1,3-Dichlorobenzene	ND		1000	1020		ug/L		102	77 - 120
1,3-Dichloropropane	ND		1000	1060		ug/L		106	75 - 120
1,4-Dichlorobenzene	ND		1000	1030		ug/L		103	78 - 124
2,2-Dichloropropane	ND		1000	979		ug/L		98	63 - 136
2-Butanone (MEK)	ND		5000	5690		ug/L		114	57 - 140
2-Chloroethyl vinyl ether	ND		1000	965		ug/L		97	70 - 129
2-Hexanone	ND		5000	5490		ug/L		110	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		5000	5360		ug/L		107	71 - 125
Acetone	ND		5000	5610		ug/L		112	56 - 142
Acrolein	ND	F1	5000	7420	F1	ug/L		148	52 - 143
Acrylonitrile	ND		10000	10900		ug/L		109	63 - 125
Benzene	ND		1000	1070		ug/L		107	71 - 124
Bromobenzene	ND		1000	1070		ug/L		107	78 - 120
Bromochloromethane	ND		1000	1140		ug/L		114	72 - 130
Bromodichloromethane	ND		1000	1160		ug/L		116	80 - 122
Bromoform	ND		1000	1110		ug/L		111	61 - 132
Bromomethane	ND		1000	1000		ug/L		100	55 - 144
Carbon disulfide	ND		1000	1030		ug/L		103	59 - 134
Carbon tetrachloride	ND		1000	1170		ug/L		117	72 - 134
Chlorobenzene	ND		1000	1070		ug/L		107	80 - 120
Chloroethane	73		1000	959		ug/L		89	69 - 136
Chloroform	ND		1000	1090		ug/L		109	73 - 127
Chloromethane	ND		1000	933		ug/L		93	68 - 124
cis-1,2-Dichloroethene	1500		1000	2300		ug/L		80	74 - 124
cis-1,3-Dichloropropene	ND		1000	1070		ug/L		107	74 - 124
Dibromochloromethane	ND		1000	1130		ug/L		113	75 - 125
Dibromomethane	ND		1000	1150		ug/L		115	76 - 127
Dichlorodifluoromethane	ND		1000	878		ug/L		88	59 - 135
Ethyl ether	ND		1000	1030		ug/L		103	76 - 123
Ethylbenzene	ND		1000	1070		ug/L		107	77 - 123

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: 480-180563-I-5 MS

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	ND		1000	1090		ug/L		109	68 - 131
Iodomethane	ND		1000	1100		ug/L		110	78 - 123
Isopropylbenzene	ND		1000	1050		ug/L		105	77 - 122
Methyl tert-butyl ether	ND		1000	1050		ug/L		105	77 - 120
Methylene Chloride	50		1000	1070		ug/L		102	75 - 124
m-Xylene & p-Xylene	ND		1000	1030		ug/L		103	76 - 122
Naphthalene	ND		1000	971		ug/L		97	66 - 125
n-Butylbenzene	ND		1000	1040		ug/L		104	71 - 128
N-Propylbenzene	ND		1000	1040		ug/L		104	75 - 127
o-Chlorotoluene	ND		1000	1050		ug/L		105	76 - 121
o-Xylene	ND		1000	1060		ug/L		106	76 - 122
p-Chlorotoluene	ND		1000	1050		ug/L		105	77 - 121
p-Cymene	ND		1000	1030		ug/L		103	73 - 120
sec-Butylbenzene	ND		1000	1050		ug/L		105	74 - 127
Styrene	ND		1000	1080		ug/L		108	80 - 120
tert-Butylbenzene	ND		1000	1030		ug/L		103	75 - 123
Tetrachloroethene	ND		1000	1130		ug/L		113	74 - 122
Tetrahydrofuran	ND		2000	2110		ug/L		105	62 - 132
Toluene	ND		1000	1060		ug/L		106	80 - 122
trans-1,2-Dichloroethene	ND		1000	1100		ug/L		110	73 - 127
trans-1,3-Dichloropropene	ND		1000	1040		ug/L		104	80 - 120
trans-1,4-Dichloro-2-butene	ND		1000	897		ug/L		90	41 - 131
Trichloroethene	330		1000	1380		ug/L		105	74 - 123
Trichlorofluoromethane	ND		1000	1180		ug/L		118	62 - 150
Vinyl acetate	ND		2000	2130		ug/L		107	50 - 144
Vinyl chloride	460		1000	1340		ug/L		87	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 480-180563-I-5 MSD

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		1000	1140		ug/L		114	80 - 120	1	20
1,1,1-Trichloroethane	ND		1000	1160		ug/L		116	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		1000	1020		ug/L		102	76 - 120	1	15
1,1,2-Trichloroethane	ND		1000	1060		ug/L		106	76 - 122	2	15
1,1-Dichloroethane	240		1000	1260		ug/L		102	77 - 120	2	20
1,1-Dichloroethene	ND		1000	1090		ug/L		106	66 - 127	5	16
1,1-Dichloropropene	ND		1000	1100		ug/L		110	72 - 122	3	20
1,2,3-Trichlorobenzene	ND		1000	1040		ug/L		104	75 - 123	4	20
1,2,3-Trichloropropane	ND		1000	1060		ug/L		106	68 - 122	2	14
1,2,4-Trichlorobenzene	ND		1000	1040		ug/L		104	79 - 122	1	20
1,2,4-Trimethylbenzene	ND		1000	1010		ug/L		101	76 - 121	2	20

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: 480-180563-I-5 MSD

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		1000	1050		ug/L		105	56 - 134	1	15
1,2-Dibromoethane (EDB)	ND		1000	1080		ug/L		108	77 - 120	1	15
1,2-Dichlorobenzene	ND		1000	1010		ug/L		101	80 - 124	0	20
1,2-Dichloroethane	ND		1000	1090		ug/L		109	75 - 120	2	20
1,2-Dichloroethene, Total	1500		2000	3310		ug/L		91	72 - 124	3	20
1,2-Dichloropropane	ND		1000	1040		ug/L		104	76 - 120	2	20
1,3,5-Trimethylbenzene	ND		1000	1010		ug/L		101	77 - 121	2	20
1,3-Dichlorobenzene	ND		1000	1010		ug/L		101	77 - 120	1	20
1,3-Dichloropropane	ND		1000	1060		ug/L		106	75 - 120	0	20
1,4-Dichlorobenzene	ND		1000	1010		ug/L		101	78 - 124	2	20
2,2-Dichloropropane	ND		1000	962		ug/L		96	63 - 136	2	20
2-Butanone (MEK)	ND		5000	5690		ug/L		114	57 - 140	0	20
2-Chloroethyl vinyl ether	ND		1000	984		ug/L		98	70 - 129	2	20
2-Hexanone	ND		5000	5600		ug/L		112	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		5000	5440		ug/L		109	71 - 125	1	35
Acetone	ND		5000	5650		ug/L		113	56 - 142	1	15
Acrolein	ND	F1	5000	7390	F1	ug/L		148	52 - 143	0	20
Acrylonitrile	ND		10000	10900		ug/L		109	63 - 125	0	20
Benzene	ND		1000	1040		ug/L		104	71 - 124	3	13
Bromobenzene	ND		1000	1050		ug/L		105	78 - 120	2	15
Bromochloromethane	ND		1000	1120		ug/L		112	72 - 130	1	15
Bromodichloromethane	ND		1000	1130		ug/L		113	80 - 122	3	15
Bromoform	ND		1000	1120		ug/L		112	61 - 132	0	15
Bromomethane	ND		1000	932		ug/L		93	55 - 144	7	15
Carbon disulfide	ND		1000	998		ug/L		100	59 - 134	3	15
Carbon tetrachloride	ND		1000	1160		ug/L		116	72 - 134	0	15
Chlorobenzene	ND		1000	1060		ug/L		106	80 - 120	1	25
Chloroethane	73		1000	934		ug/L		86	69 - 136	3	15
Chloroform	ND		1000	1040		ug/L		104	73 - 127	4	20
Chloromethane	ND		1000	893		ug/L		89	68 - 124	4	15
cis-1,2-Dichloroethene	1500		1000	2250		ug/L		75	74 - 124	2	15
cis-1,3-Dichloropropene	ND		1000	1050		ug/L		105	74 - 124	2	15
Dibromochloromethane	ND		1000	1120		ug/L		112	75 - 125	1	15
Dibromomethane	ND		1000	1130		ug/L		113	76 - 127	2	15
Dichlorodifluoromethane	ND		1000	840		ug/L		84	59 - 135	4	20
Ethyl ether	ND		1000	999		ug/L		100	76 - 123	3	20
Ethylbenzene	ND		1000	1060		ug/L		106	77 - 123	0	15
Hexachlorobutadiene	ND		1000	1060		ug/L		106	68 - 131	3	20
Iodomethane	ND		1000	1140		ug/L		114	78 - 123	3	20
Isopropylbenzene	ND		1000	1020		ug/L		102	77 - 122	3	20
Methyl tert-butyl ether	ND		1000	1040		ug/L		104	77 - 120	0	37
Methylene Chloride	50		1000	1060		ug/L		101	75 - 124	1	15
m-Xylene & p-Xylene	ND		1000	1030		ug/L		103	76 - 122	0	16
Naphthalene	ND		1000	1020		ug/L		102	66 - 125	5	20
n-Butylbenzene	ND		1000	1020		ug/L		102	71 - 128	2	15
N-Propylbenzene	ND		1000	1010		ug/L		101	75 - 127	3	15
o-Chlorotoluene	ND		1000	1040		ug/L		104	76 - 121	1	20
o-Xylene	ND		1000	1050		ug/L		105	76 - 122	1	16
p-Chlorotoluene	ND		1000	1020		ug/L		102	77 - 121	3	15

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: 480-180563-I-5 MSD

Matrix: Water

Analysis Batch: 567551

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Cymene	ND		1000	1010		ug/L		101	73 - 120	2	20
sec-Butylbenzene	ND		1000	1010		ug/L		101	74 - 127	4	15
Styrene	ND		1000	1080		ug/L		108	80 - 120	0	20
tert-Butylbenzene	ND		1000	1020		ug/L		102	75 - 123	1	15
Tetrachloroethene	ND		1000	1100		ug/L		110	74 - 122	3	20
Tetrahydrofuran	ND		2000	2140		ug/L		107	62 - 132	1	25
Toluene	ND		1000	1030		ug/L		103	80 - 122	3	15
trans-1,2-Dichloroethene	ND		1000	1060		ug/L		106	73 - 127	4	20
trans-1,3-Dichloropropene	ND		1000	1040		ug/L		104	80 - 120	0	15
trans-1,4-Dichloro-2-butene	ND		1000	914		ug/L		91	41 - 131	2	20
Trichloroethene	330		1000	1350		ug/L		102	74 - 123	2	16
Trichlorofluoromethane	ND		1000	1100		ug/L		110	62 - 150	7	20
Vinyl acetate	ND		2000	2110		ug/L		105	50 - 144	1	23
Vinyl chloride	460		1000	1300		ug/L		84	65 - 133	3	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	106		77 - 120								
4-Bromofluorobenzene (Surr)	104		73 - 120								
Toluene-d8 (Surr)	102		80 - 120								

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

Lab Sample ID: MB 480-567511/24

Matrix: Water

Analysis Batch: 567511

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			01/27/21 22:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		50 - 150					01/27/21 22:45	1
TBA-d9 (Surr)	92		50 - 150					01/27/21 22:45	1

Lab Sample ID: LCS 480-567511/5

Matrix: Water

Analysis Batch: 567511

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	0.207		ug/L		104	50 - 150		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Dibromofluoromethane (Surr)	100		50 - 150						
TBA-d9 (Surr)	91		50 - 150						

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

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

Lab Sample ID: LCSD 480-567511/6

Matrix: Water

Analysis Batch: 567511

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	0.218		ug/L		109	50 - 150	5	20
Surrogate	%Recovery	LCSD Qualifier	Limits								
Dibromofluoromethane (Surr)	101		50 - 150								
TBA-d9 (Surr)	104		50 - 150								

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-525238/1-A

Matrix: Water

Analysis Batch: 525448

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 525238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0		ug/L		02/03/21 16:00	02/04/21 09:24	1

Lab Sample ID: LCS 280-525238/2-A

Matrix: Water

Analysis Batch: 525448

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 525238

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese			40.0	39.4		ug/L		99	85 - 117

Lab Sample ID: 280-144864-1 MS

Matrix: Water

Analysis Batch: 525448

Client Sample ID: MW12I-012021

Prep Type: Dissolved

Prep Batch: 525238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	23		40.0	64.4		ug/L		103	85 - 117

Lab Sample ID: 280-144864-1 MSD

Matrix: Water

Analysis Batch: 525448

Client Sample ID: MW12I-012021

Prep Type: Dissolved

Prep Batch: 525238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	23		40.0	61.3		ug/L		96	85 - 117	5	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-526068/6

Matrix: Water

Analysis Batch: 526068

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			02/11/21 11:18	1
Sulfate	ND		5.0		mg/L			02/11/21 11:18	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-526068/4

Matrix: Water

Analysis Batch: 526068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103		mg/L		103	90 - 110
Sulfate	100	96.9		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-526068/5

Matrix: Water

Analysis Batch: 526068

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	103		mg/L		103	90 - 110	0	10
Sulfate	100	96.9		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-526068/3

Matrix: Water

Analysis Batch: 526068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.36		mg/L		87	50 - 150
Sulfate	5.00	ND		mg/L		97	50 - 150

Lab Sample ID: 280-144864-3 MS

Matrix: Water

Analysis Batch: 526068

Client Sample ID: MW14-012021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		50.0	56.2		mg/L		108	80 - 120
Sulfate	7.0		50.0	60.4		mg/L		107	80 - 120

Lab Sample ID: 280-144864-3 MSD

Matrix: Water

Analysis Batch: 526068

Client Sample ID: MW14-012021

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	58.6		mg/L		112	80 - 120	4	20
Sulfate	7.0		50.0	62.7		mg/L		111	80 - 120	4	20

Lab Sample ID: 280-144864-3 DU

Matrix: Water

Analysis Batch: 526068

Client Sample ID: MW14-012021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	ND		ND		mg/L		NC	15
Sulfate	7.0		6.95		mg/L		0.6	15

QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-525583/19

Matrix: Water

Analysis Batch: 525583

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			02/05/21 13:26	1

Lab Sample ID: LCS 280-525583/18

Matrix: Water

Analysis Batch: 525583

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	2.42		mg/L		97	90 - 110

Lab Sample ID: 280-144864-1 MS

Matrix: Water

Analysis Batch: 525583

Client Sample ID: MW12I-012021

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	0.973		mg/L		97	90 - 110

Lab Sample ID: 280-144864-1 MSD

Matrix: Water

Analysis Batch: 525583

Client Sample ID: MW12I-012021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	0.953		mg/L		95	90 - 110	2	10

Lab Sample ID: 280-144864-11 MS

Matrix: Water

Analysis Batch: 525583

Client Sample ID: SW7-012021

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	0.944		mg/L		94	90 - 110

Lab Sample ID: 280-144864-11 MSD

Matrix: Water

Analysis Batch: 525583

Client Sample ID: SW7-012021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	ND		1.00	0.941		mg/L		94	90 - 110	0	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-524686/32

Matrix: Water

Analysis Batch: 524686

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			01/26/21 17:13	1
Bicarbonate Alkalinity	ND		10		mg/L			01/26/21 17:13	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 17:13	1

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 280-524686/58

Matrix: Water

Analysis Batch: 524686

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			01/26/21 20:31	1
Bicarbonate Alkalinity	ND		10		mg/L			01/26/21 20:31	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 20:31	1

Lab Sample ID: MB 280-524686/6

Matrix: Water

Analysis Batch: 524686

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			01/26/21 13:38	1
Bicarbonate Alkalinity	ND		10		mg/L			01/26/21 13:38	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 13:38	1

Lab Sample ID: MB 280-524686/84

Matrix: Water

Analysis Batch: 524686

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			01/26/21 23:28	1
Bicarbonate Alkalinity	ND		10		mg/L			01/26/21 23:28	1
Carbonate Alkalinity	ND		10		mg/L			01/26/21 23:28	1

Lab Sample ID: LCS 280-524686/31

Matrix: Water

Analysis Batch: 524686

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	200		mg/L		100	89 - 109

Lab Sample ID: LCS 280-524686/57

Matrix: Water

Analysis Batch: 524686

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	204		mg/L		102	89 - 109

Lab Sample ID: LCS 280-524686/83

Matrix: Water

Analysis Batch: 524686

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	204		mg/L		102	89 - 109

Lab Sample ID: LCSD 280-524686/5

Matrix: Water

Analysis Batch: 524686

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
Total Alkalinity	200	201		mg/L		101	89 - 109	2	10

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QC Sample Results

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-144864-9 DU

Matrix: Water

Analysis Batch: 524686

Client Sample ID: SW4-012021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	130		131		mg/L		0.2	10

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

Lab Sample ID: MB 280-525166/4

Matrix: Water

Analysis Batch: 525166

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			02/01/21 15:05	1

Lab Sample ID: LCS 280-525166/3

Matrix: Water

Analysis Batch: 525166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Average	25.0	24.5		mg/L		98	88 - 112

Lab Sample ID: 280-144864-2 MS

Matrix: Water

Analysis Batch: 525166

Client Sample ID: MW13D-012021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Average	ND		25.0	25.4		mg/L		100	88 - 112

Lab Sample ID: 280-144864-2 MSD

Matrix: Water

Analysis Batch: 525166

Client Sample ID: MW13D-012021

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Average	ND		25.0	25.4		mg/L		100	88 - 112	0	15

QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

GC/MS VOA

Analysis Batch: 567511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Total/NA	Water	8260C SIM	
280-144864-2	MW13D-012021	Total/NA	Water	8260C SIM	
280-144864-3	MW14-012021	Total/NA	Water	8260C SIM	
280-144864-4	MW20DD-012021	Total/NA	Water	8260C SIM	
280-144864-5	MW5-012021	Total/NA	Water	8260C SIM	
280-144864-6	MW6-012021	Total/NA	Water	8260C SIM	
280-144864-7	MW7-012021	Total/NA	Water	8260C SIM	
280-144864-8	SW1-012021	Total/NA	Water	8260C SIM	
280-144864-9	SW4-012021	Total/NA	Water	8260C SIM	
280-144864-10	SW6-012021	Total/NA	Water	8260C SIM	
280-144864-11	SW7-012021	Total/NA	Water	8260C SIM	
280-144864-12	TB1	Total/NA	Water	8260C SIM	
MB 480-567511/24	Method Blank	Total/NA	Water	8260C SIM	
LCS 480-567511/5	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 480-567511/6	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 567551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Total/NA	Water	8260C	
280-144864-2	MW13D-012021	Total/NA	Water	8260C	
280-144864-3	MW14-012021	Total/NA	Water	8260C	
280-144864-4	MW20DD-012021	Total/NA	Water	8260C	
280-144864-5	MW5-012021	Total/NA	Water	8260C	
280-144864-6	MW6-012021	Total/NA	Water	8260C	
280-144864-7	MW7-012021	Total/NA	Water	8260C	
280-144864-8	SW1-012021	Total/NA	Water	8260C	
280-144864-9	SW4-012021	Total/NA	Water	8260C	
280-144864-10	SW6-012021	Total/NA	Water	8260C	
280-144864-11	SW7-012021	Total/NA	Water	8260C	
280-144864-12	TB1	Total/NA	Water	8260C	
MB 480-567551/8	Method Blank	Total/NA	Water	8260C	
LCS 480-567551/5	Lab Control Sample	Total/NA	Water	8260C	
480-180563-I-5 MS	Matrix Spike	Total/NA	Water	8260C	
480-180563-I-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Metals

Prep Batch: 525238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Dissolved	Water	3005A	
280-144864-2	MW13D-012021	Dissolved	Water	3005A	
280-144864-3	MW14-012021	Dissolved	Water	3005A	
280-144864-4	MW20DD-012021	Dissolved	Water	3005A	
280-144864-5	MW5-012021	Dissolved	Water	3005A	
280-144864-6	MW6-012021	Dissolved	Water	3005A	
280-144864-7	MW7-012021	Dissolved	Water	3005A	
280-144864-8	SW1-012021	Dissolved	Water	3005A	
280-144864-9	SW4-012021	Dissolved	Water	3005A	
280-144864-10	SW6-012021	Dissolved	Water	3005A	
280-144864-11	SW7-012021	Dissolved	Water	3005A	
MB 280-525238/1-A	Method Blank	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Metals (Continued)

Prep Batch: 525238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-525238/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-144864-1 MS	MW12I-012021	Dissolved	Water	3005A	
280-144864-1 MSD	MW12I-012021	Dissolved	Water	3005A	

Analysis Batch: 525448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Dissolved	Water	6020	525238
280-144864-2	MW13D-012021	Dissolved	Water	6020	525238
280-144864-3	MW14-012021	Dissolved	Water	6020	525238
280-144864-4	MW20DD-012021	Dissolved	Water	6020	525238
280-144864-5	MW5-012021	Dissolved	Water	6020	525238
280-144864-6	MW6-012021	Dissolved	Water	6020	525238
280-144864-7	MW7-012021	Dissolved	Water	6020	525238
280-144864-8	SW1-012021	Dissolved	Water	6020	525238
280-144864-9	SW4-012021	Dissolved	Water	6020	525238
280-144864-10	SW6-012021	Dissolved	Water	6020	525238
280-144864-11	SW7-012021	Dissolved	Water	6020	525238
MB 280-525238/1-A	Method Blank	Total Recoverable	Water	6020	525238
LCS 280-525238/2-A	Lab Control Sample	Total Recoverable	Water	6020	525238
280-144864-1 MS	MW12I-012021	Dissolved	Water	6020	525238
280-144864-1 MSD	MW12I-012021	Dissolved	Water	6020	525238

General Chemistry

Analysis Batch: 524686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Total/NA	Water	SM 2320B	
280-144864-2	MW13D-012021	Total/NA	Water	SM 2320B	
280-144864-3	MW14-012021	Total/NA	Water	SM 2320B	
280-144864-4	MW20DD-012021	Total/NA	Water	SM 2320B	
280-144864-5	MW5-012021	Total/NA	Water	SM 2320B	
280-144864-6	MW6-012021	Total/NA	Water	SM 2320B	
280-144864-7	MW7-012021	Total/NA	Water	SM 2320B	
280-144864-8	SW1-012021	Total/NA	Water	SM 2320B	
280-144864-9	SW4-012021	Total/NA	Water	SM 2320B	
280-144864-10	SW6-012021	Total/NA	Water	SM 2320B	
280-144864-11	SW7-012021	Total/NA	Water	SM 2320B	
MB 280-524686/32	Method Blank	Total/NA	Water	SM 2320B	
MB 280-524686/58	Method Blank	Total/NA	Water	SM 2320B	
MB 280-524686/6	Method Blank	Total/NA	Water	SM 2320B	
MB 280-524686/84	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-524686/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-524686/57	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-524686/83	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-524686/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-144864-9 DU	SW4-012021	Total/NA	Water	SM 2320B	

Analysis Batch: 525166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Total/NA	Water	SM 5310B	
280-144864-2	MW13D-012021	Total/NA	Water	SM 5310B	

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QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

General Chemistry (Continued)

Analysis Batch: 525166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-3	MW14-012021	Total/NA	Water	SM 5310B	
280-144864-4	MW20DD-012021	Total/NA	Water	SM 5310B	
280-144864-5	MW5-012021	Total/NA	Water	SM 5310B	
280-144864-6	MW6-012021	Total/NA	Water	SM 5310B	
280-144864-7	MW7-012021	Total/NA	Water	SM 5310B	
280-144864-8	SW1-012021	Total/NA	Water	SM 5310B	
280-144864-9	SW4-012021	Total/NA	Water	SM 5310B	
280-144864-10	SW6-012021	Total/NA	Water	SM 5310B	
280-144864-11	SW7-012021	Total/NA	Water	SM 5310B	
MB 280-525166/4	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-525166/3	Lab Control Sample	Total/NA	Water	SM 5310B	
280-144864-2 MS	MW13D-012021	Total/NA	Water	SM 5310B	
280-144864-2 MSD	MW13D-012021	Total/NA	Water	SM 5310B	

Analysis Batch: 525583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Total/NA	Water	350.1	
280-144864-2	MW13D-012021	Total/NA	Water	350.1	
280-144864-3	MW14-012021	Total/NA	Water	350.1	
280-144864-4	MW20DD-012021	Total/NA	Water	350.1	
280-144864-5	MW5-012021	Total/NA	Water	350.1	
280-144864-6	MW6-012021	Total/NA	Water	350.1	
280-144864-7	MW7-012021	Total/NA	Water	350.1	
280-144864-8	SW1-012021	Total/NA	Water	350.1	
280-144864-9	SW4-012021	Total/NA	Water	350.1	
280-144864-10	SW6-012021	Total/NA	Water	350.1	
280-144864-11	SW7-012021	Total/NA	Water	350.1	
MB 280-525583/19	Method Blank	Total/NA	Water	350.1	
LCS 280-525583/18	Lab Control Sample	Total/NA	Water	350.1	
280-144864-1 MS	MW12I-012021	Total/NA	Water	350.1	
280-144864-1 MSD	MW12I-012021	Total/NA	Water	350.1	
280-144864-11 MS	SW7-012021	Total/NA	Water	350.1	
280-144864-11 MSD	SW7-012021	Total/NA	Water	350.1	

Analysis Batch: 526068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-1	MW12I-012021	Total/NA	Water	300.0	
280-144864-2	MW13D-012021	Total/NA	Water	300.0	
280-144864-3	MW14-012021	Total/NA	Water	300.0	
280-144864-4	MW20DD-012021	Total/NA	Water	300.0	
280-144864-5	MW5-012021	Total/NA	Water	300.0	
280-144864-6	MW6-012021	Total/NA	Water	300.0	
280-144864-7	MW7-012021	Total/NA	Water	300.0	
280-144864-8	SW1-012021	Total/NA	Water	300.0	
280-144864-9	SW4-012021	Total/NA	Water	300.0	
280-144864-10	SW6-012021	Total/NA	Water	300.0	
280-144864-11	SW7-012021	Total/NA	Water	300.0	
MB 280-526068/6	Method Blank	Total/NA	Water	300.0	
LCS 280-526068/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-526068/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-526068/3	Lab Control Sample	Total/NA	Water	300.0	

Eurofins TestAmerica, Denver

QC Association Summary

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

General Chemistry (Continued)

Analysis Batch: 526068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-144864-3 MS	MW14-012021	Total/NA	Water	300.0	
280-144864-3 MSD	MW14-012021	Total/NA	Water	300.0	
280-144864-3 DU	MW14-012021	Total/NA	Water	300.0	

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Client Sample ID: MW12I-012021

Lab Sample ID: 280-144864-1

Date Collected: 01/20/21 11:10

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 14:56	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 01:11	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 09:31	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 20:37	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 13:28	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 19:29	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 18:59	RAF	TAL DEN

Client Sample ID: MW13D-012021

Lab Sample ID: 280-144864-2

Date Collected: 01/20/21 12:40

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 15:19	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 01:35	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 09:48	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 20:53	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 13:36	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 19:35	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 19:13	RAF	TAL DEN

Client Sample ID: MW14-012021

Lab Sample ID: 280-144864-3

Date Collected: 01/20/21 13:55

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 15:42	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 01:59	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 09:52	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 21:10	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 13:38	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/27/21 03:41	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 19:58	RAF	TAL DEN

Client Sample ID: MW20DD-012021

Lab Sample ID: 280-144864-4

Date Collected: 01/20/21 00:00

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 16:05	CRL	TAL BUF

Eurofins TestAmerica, Denver

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Client Sample ID: MW20DD-012021

Lab Sample ID: 280-144864-4

Date Collected: 01/20/21 00:00

Matrix: Water

Date Received: 01/22/21 10:00

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	567511	01/28/21 02:23	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:03	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 22:48	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 13:40	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 19:41	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 20:12	RAF	TAL DEN

Client Sample ID: MW5-012021

Lab Sample ID: 280-144864-5

Date Collected: 01/20/21 09:55

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 16:29	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 02:47	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:06	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 23:05	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 13:42	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 19:47	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 20:27	RAF	TAL DEN

Client Sample ID: MW6-012021

Lab Sample ID: 280-144864-6

Date Collected: 01/20/21 14:00

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 16:52	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 03:12	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:10	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 23:21	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 13:44	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 19:53	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 20:42	RAF	TAL DEN

Client Sample ID: MW7-012021

Lab Sample ID: 280-144864-7

Date Collected: 01/20/21 08:45

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 17:15	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 03:36	CDC	TAL BUF

Eurofins TestAmerica, Denver

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Client Sample ID: MW7-012021

Lab Sample ID: 280-144864-7

Date Collected: 01/20/21 08:45

Matrix: Water

Date Received: 01/22/21 10:00

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	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:13	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 23:54	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 13:46	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 19:59	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 21:25	RAF	TAL DEN

Client Sample ID: SW1-012021

Lab Sample ID: 280-144864-8

Date Collected: 01/20/21 10:45

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 17:38	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 04:00	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:17	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/11/21 23:37	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 14:00	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 20:05	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 21:40	RAF	TAL DEN

Client Sample ID: SW4-012021

Lab Sample ID: 280-144864-9

Date Collected: 01/20/21 11:20

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 18:01	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 04:24	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:20	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/12/21 00:10	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 14:02	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 20:38	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 21:55	RAF	TAL DEN

Client Sample ID: SW6-012021

Lab Sample ID: 280-144864-10

Date Collected: 01/20/21 11:45

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 18:24	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 04:48	CDC	TAL BUF

Eurofins TestAmerica, Denver

Lab Chronicle

Client: Aspect Consulting
Project/Site: Hansville Landfill

Job ID: 280-144864-1

Client Sample ID: SW6-012021

Lab Sample ID: 280-144864-10

Date Collected: 01/20/21 11:45

Matrix: Water

Date Received: 01/22/21 10:00

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	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:24	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/12/21 00:27	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 14:10	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 20:50	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 22:10	RAF	TAL DEN

Client Sample ID: SW7-012021

Lab Sample ID: 280-144864-11

Date Collected: 01/20/21 12:45

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 18:47	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 05:12	CDC	TAL BUF
Dissolved	Prep	3005A			50 mL	50 mL	525238	02/03/21 16:00	EC	TAL DEN
Dissolved	Analysis	6020		1			525448	02/04/21 10:28	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	526068	02/12/21 00:43	JMB	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	525583	02/05/21 14:04	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			524686	01/26/21 20:56	QJB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	525166	02/01/21 22:25	RAF	TAL DEN

Client Sample ID: TB1

Lab Sample ID: 280-144864-12

Date Collected: 01/20/21 08:45

Matrix: Water

Date Received: 01/22/21 10:00

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	567551	01/28/21 19:10	CRL	TAL BUF
Total/NA	Analysis	8260C SIM		1	25 mL	25 mL	567511	01/28/21 05:37	CDC	TAL BUF

Laboratory References:

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

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

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



23 February 2021

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

RE: Hansville

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)
21A0314

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, Inc.

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.



Denver #280

Chain of Custody Record

Client Information		Sampler: <u>DCB/DWU/CEB</u>		Lab PM:	Carrier Tracking No(s):	
Client Contact: <u>Meilani Lanier-Kamaha'o</u>		Phone: <u>(206) 413-5408</u>		Sara, Betsy A	COC No: 280-23414-6845.1	
Company: <u>Aspect Consulting, LLC</u>		E-Mail: <u>Betsy.Sara@Eurofinset.com</u>		Page: <u>1 of 2</u>		
Address: <u>350 Madison Ave N</u>		Due Date Requested:		Job #: <u>160423</u>		
City: <u>Bainbridge Island</u>		TAT Requested (days):		Analysis Requested		
State, Zip: <u>WA, 98110</u>		PO #: <u>Std</u>		8260C - Full Scan VOA (TA Buffalo)		
Phone: <u>(206) 413-5408</u>		Purchase Order not required		Dissolved Arsenic (Direct sub to ARI)		
Email: <u>mlkamaha'o@aspectconsulting.com</u>		WO #:		Ortho-phosphate (field filtered) - Direct sub to ARI		
Project Name: <u>Hansville Landfill</u>		Project #/skip sites/events		Alks/Cl/SO4		
Site: <u>Washington</u>		28006013 - 1Q Sampling		Ammonia/TOC		
SSOW#:		Sample Date		Dissolved Metals		
		Sample Time		8260C SIM - Vinyl Chloride (TA Buffalo)		
		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)		
		Matrix (W=water, S=solid, O=waste, oil, BT=issue, Anal)		Nitrate/Nitrite (IC) - Direct sub to ARI		
		Preservation Code:		Total Number of containers		
		MW-5-012021		Special Instructions/Note:		
		MW-7-012021		Diss As, NO3, NO2, o-phos subbed direct to ARI		
		MW-12I-012021				
		MW-13D-012021				
		MW-14-012021				
		SW-1-012021				
		SW-4-012021				
		SW-6-012021				
		SW-7-012021				
		MW-6-012021				
		MW-20DD-012021				
Possible Hazard Identification						
☐ Non-Hazard		☐ Flammable		☐ Skin Irritant		
☐ Deliverable Requested: I, II, III, IV, Other (specify)		☐ Poison B		☐ Unknown		
☐ Empty Kit Relinquished by:		☐ Relinquished by:		☐ Relinquished by:		
Date/Time: <u>1/21/2021 0837</u>		Date/Time: <u>1/21/2021 0837</u>		Date/Time: <u>1/21/2021 0837</u>		
Company: <u>Aspect</u>		Company: <u>Aspect</u>		Company: <u>ARI</u>		
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other: <u>13</u>		

RE: Hasnvile RE: Scanned image from MX-M754N Project Services

Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>

Fri 1/22/2021 1:57 PM

To: Collins, Janice <Janice.Collins@Eurofinset.com>

Cc: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>; Sara, Betsy <Betsy.Sara@Eurofinset.com>

Hi Janice – No shipment from you needed on this. The Diss As will be out of holding time. I am not sure about the NO3/NO2 holding time, but we are prepared to just report that as not analyzed for this event. Thank you!
Mei

Meilani Lanier-Kamaha'o, LG | Aspect Consulting LLC | Project Geologist | Direct: 206.413.5408 | Cell: 831.588.2350
Pronouns: she/her

Due to COVID and my remote work situation, I may be responding to emails at hours outside of a typical work day. Please feel free to respond during your workday.

This email is intended solely for the addressee(s) and may contain confidential or legally privileged information. If you are not the intended recipient, please immediately alert the sender by reply email and delete this message and any attachments without storing, copying, distributing, or using the contents.

From: Collins, Janice <Janice.Collins@Eurofinset.com>

Sent: Friday, January 22, 2021 1:14 PM

To: Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>

Cc: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>; Sara, Betsy <Betsy.Sara@Eurofinset.com>

Subject: RE: Hasnvile RE: Scanned image from MX-M754N Project Services

Thank you so much!

We received the NO3/NO2 container for MW-20DD-012021 and the dissolved Arsenic bottle for SW6.

Should we send the Arsenic bottle to ARI?

Janice Collins

Phone: 303-736-0124

E-mail: Janice.Collins@Eurofinset.com

From: Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>

Sent: Friday, January 22, 2021 12:08 PM

To: Collins, Janice <Janice.Collins@Eurofinset.com>

Cc: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>

Subject: RE: Hasnvile RE: Scanned image from MX-M754N Project Services

EXTERNAL EMAIL*

Thanks Janice! I just touched base with Amanda, and ARI will be able to ship the 'missing' samples to you Monday for a Tuesday delivery.

If things shift at all let's just keep the other in the loop. I really appreciate your help, especially ARI at this time, sorting this out!
Thank you,

Mei

Meilani Lanier-Kamaha'o, LG | Aspect Consulting LLC | Project Geologist | Direct: 206.413.5408 | Cell: 831.588.2350
Pronouns: she/her

Due to COVID and my remote work situation, I may be responding to emails at hours outside of a typical work day. Please feel free to respond during your workday.

This email is intended solely for the addressee(s) and may contain confidential or legally privileged information. If you are not the intended recipient, please immediately alert the sender by reply email and delete this message and any attachments without storing, copying, distributing, or using the contents.

From: Collins, Janice <Janice.Collins@Eurofinset.com>
Sent: Friday, January 22, 2021 10:40 AM
To: Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>
Cc: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>
Subject: RE: Hasnvile RE: Scanned image from MX-M754N Project Services

Hi Meilani,

We did receive these samples today. They have not been unpacked yet, but I will let you know of any issues.

There are no holding time issues for Alk/Cl/SO4. If LRI could ship us the bottle, that would be great.

Thanks!

Janice Collins

Phone: 303-736-0124

E-mail: Janice.Collins@Eurofinset.com

From: Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>
Sent: Thursday, January 21, 2021 7:03 PM
To: Collins, Janice <Janice.Collins@Eurofinset.com>
Cc: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>
Subject: FW: Hasnvile RE: Scanned image from MX-M754N Project Services

EXTERNAL EMAIL*

Hi Janice – Please see email thread below. There is at least one bottle issue we've identified for a sample shipment due to arrive tomorrow at TA Denver.

If possible I'd like to connect with you, or someone from sample receiving to figure out if we need to resample and/or what options we have.

Thank you!
Meilani

Tracking numbers:
815659585863
815659585900
815659585911

Meilani Lanier-Kamaha'o, LG | Aspect Consulting LLC | Project Geologist | Direct: 206.413.5408 | Cell: 831.588.2350
Pronouns: she/her

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From: Meilani Lanier-Kamaha'o
Sent: Thursday, January 21, 2021 5:59 PM
To: Jacob Walter <jacob.walter@arilabs.com>; Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>; Sara, Betsy <Betsy.Sara@Eurofinset.com>; Peter S. Bannister <pbannister@aspectconsulting.com>
Cc: Sample Receiving <sample-receiving@arilabs.com>
Subject: Hasnvile RE: Scanned image from MX-M754N Project Services

Thanks All, Here's the plan:

Amanda and Jacob – Since we field filter for dissolved As, which is pretty critical for this Site, we cannot use volume from a different SW-6-012021 container. Based on this, we will plan to re-sample that location next week. Tomorrow I'll have staff confirm if we have a bottle for this – and I believe we do. Otherwise we'll need to coordinate getting a sample container.

Betsy – When the samples arrive Friday/tomorrow, can you please confirm if you need additional volume of anything. Specifically if you'll be able to analyze sample MW-14-012021 for Alk/Cl/SO4 with the volume you have. I am not sure of the hold time, but is this something that ARI I can ship to you?
Does either lab have a suggestion for trouble shooting for this?

Regarding nitrate/ite for MW-20DD-012021 it is okay to skip that analysis for this round. If you are able to run that with the volumes you have great, but it's not as critical as the arsenic so we do not plan to resample for that.

I will be working fairly normal hours tomorrow and please free to call (mobile) if you need clarification. Email should be fine too. Please let me know if you need me to revise your respective COCs, or if this email chain is sufficient.

Thank you each for your help with this,
Meilani

Meilani Lanier-Kamaha'o, LG | Aspect Consulting LLC | Project Geologist | Direct: 206.413.5408 | Cell: 831.588.2350
Pronouns: she/her

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From: Jacob Walter <jacob.walter@arilabs.com>
Sent: Thursday, January 21, 2021 2:01 PM
To: Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>; Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>; Sara, Betsy <Betsy.Sara@Eurofinset.com>; Peter S. Bannister <pbannister@aspectconsulting.com>
Cc: Sample Receiving <sample-receiving@arilabs.com>
Subject: Re: Scanned image from MX-M754N Project Services

Good afternoon Meilani,

Hope this is able to help determine the next course of action, please see the attached photo of the extra bottle for MW-14, thank you for your time.

Sincerely,

Jacob B. Walter

Sample Receiving Supervisor

Analytical Resources, Inc.

4611 S 134th Pl, Suite# 100

Tukwila, WA 98186

Website: <https://www.arilabs.com>

Direct phone: (206) 695-6221

Courier requests will not be guaranteed for same day pick-ups or deliveries.

As many of our staff are working remotely we have changed sample receiving hours to 8 to 5 until further notice.

“Progress isn't made by early risers. It's made by lazy men trying to find easier ways to do something.” — **Robert A. Heinlein**

From: Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>
Sent: Thursday, January 21, 2021 1:53 PM
To: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>; Sara, Betsy <Betsy.Sara@Eurofinset.com>; Peter S. Bannister <pbannister@aspectconsulting.com>

Cc: Sample Receiving <sample-receiving@arilabs.com>
Subject: RE: Scanned image from MX-M754N Project Services

Thanks Amanda, I just saw this and am reviewing it now. It certainly sounds like there was a mix up between the TA and ARI samples. Is the extra MW-14 container for NO3/NO2? It most likely a mislabeled MW-20DD-012021.

I'll get back to you as soon as I can with some better direction – either by email or phone.

Thank you!
Mei

Meilani Lanier-Kamaha'o, LG | Aspect Consulting LLC | Project Geologist | Direct: 206.413.5408 | Cell: 831.588.2350

Pronouns: she/her

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From: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>
Sent: Thursday, January 21, 2021 9:11 AM
To: Sara, Betsy <Betsy.Sara@Eurofinset.com>; Meilani Lanier-Kamaha'o <mlkamahao@aspectconsulting.com>
Cc: Sample Receiving <sample-receiving@arilabs.com>
Subject: Fw: Scanned image from MX-M754N Project Services

Hello,

Please see the login issues for the attached CoC. Let me know how you would like to proceed.

Regards,
Amanda Volgardsen Johnson
Analytical Resources, Inc.
Project Manager

- Direct: 206-695-6220

- Office: 206-695-6200
- Cell: 253-797-5154 (preferred as I mainly work remotely)

<https://www.arilabs.com>

Version changes coming this year to SW-846 6010 and 6020 metals analysis methods.

"This is the way" - The Mandalorian

From: Samantha Colon <samantha.colon@arilabs.com>
Sent: Thursday, January 21, 2021 9:08 AM
To: Amanda Volgardsen Johnson <amanda.volgardsen@arilabs.com>
Cc: Sample Receiving <sample-receiving@arilabs.com>
Subject: Fw: Scanned image from MX-M754N Project Services

Hi Amanda,

Once I set up this work order, I found that we have an extra bottle for MW-14-012021 that lists the analysis as Alk/Cl/SO₄, but is not marked as a requested analysis on the CoC. We are also missing the Dissolved Arsenic bottle for SW-6-012021 and the NO₃/NO₂ for MW-20DD-012021.

Thanks,

Samantha

From: noreply@arilabs.com <noreply@arilabs.com> on behalf of noreply@ <[arilabs.com](mailto:noreply@arilabs.com)>
Sent: Thursday, January 21, 2021 9:02 AM
To: Samantha Colon <samantha.colon@arilabs.com>
Subject: Scanned image from MX-M754N Project Services

Reply to: noreply@arilabs.com <noreply@arilabs.com>
Device Name: MX-M754N Project Services
Device Model: MX-M754N
Location: Project Services

File Format: PDF (Medium)
Resolution: 200dpi x 200dpi

Attached file is scanned image in PDF format.

Use Acrobat(R)Reader(R) or Adobe(R)Reader(R) of Adobe Systems Incorporated to view the document. Adobe(R)Reader(R) can be downloaded from the following URL:

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How was your customer experience?

Please take our 5 minute [Online Customer Survey](#).

Analytical Resources, Incorporated

Analytical Chemists and Consultants

Effective **February 1, 2021** ARI Labs, Inc. will be migrating metals analysis methods SW6010C to SW6010D (ICP) and SW6020A to SW6020B (ICPMS). Please see this [post](#) for more information.

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[ARI Labs, Inc.](#)

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Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5-012021	21A0314-01	Water	20-Jan-2021 09:55	21-Jan-2021 08:37
MW-7-012021	21A0314-02	Water	20-Jan-2021 08:45	21-Jan-2021 08:37
MW-12I-012021	21A0314-03	Water	20-Jan-2021 11:10	21-Jan-2021 08:37
MW-13D-012021	21A0314-04	Water	20-Jan-2021 12:40	21-Jan-2021 08:37
MW-14-012021	21A0314-05	Water	20-Jan-2021 13:55	21-Jan-2021 08:37
SW-1-012021	21A0314-06	Water	20-Jan-2021 10:45	21-Jan-2021 08:37
SW-4-012021	21A0314-07	Water	20-Jan-2021 11:20	21-Jan-2021 08:37
SW-6-012021	21A0314-08	Water	20-Jan-2021 11:45	21-Jan-2021 08:37
SW-7-012021	21A0314-09	Water	20-Jan-2021 12:45	21-Jan-2021 08:37
MW-6-012021	21A0314-10	Water	20-Jan-2021 14:00	21-Jan-2021 08:37
MW-20DD-012021	21A0314-11	Water	20-Jan-2021 00:00	21-Jan-2021 08:37



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received 21-Jan-2021 08:37 under ARI work order 21A0314. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Dissolved Arsenic - EPA Method 200.8

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

Initial and continuing calibrations were within method requirements.

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

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

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

21A0314

Client: Test America - Denver

Project Manager: Amanda Volgardsen Johnson

Project: Hansville

Project Number: 28006013

Preservation Confirmation

Container ID	Container Type	pH	
21A0314-01 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-01 B	Miscellaneous Container		
21A0314-01 C	Miscellaneous Container	(FF)	
21A0314-02 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-02 B	Miscellaneous Container		
21A0314-02 C	Miscellaneous Container	(FF)	
21A0314-03 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-03 B	Miscellaneous Container		
21A0314-03 C	Miscellaneous Container	(FF)	
21A0314-04 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-04 B	Miscellaneous Container		
21A0314-04 C	Miscellaneous Container	(FF)	
21A0314-05 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-05 B	Miscellaneous Container		
21A0314-05 C	Miscellaneous Container	(FF)	
21A0314-05 D	Miscellaneous Container		
21A0314-06 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-06 B	Miscellaneous Container		
21A0314-06 C	Miscellaneous Container	(FF)	
21A0314-07 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-07 B	Miscellaneous Container		
21A0314-07 C	Miscellaneous Container	(FF)	
21A0314-08 A	Miscellaneous Container		
21A0314-08 B	Miscellaneous Container	(FF)	
21A0314-09 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-09 B	Miscellaneous Container		
21A0314-09 C	Miscellaneous Container	(FF)	
21A0314-10 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-10 B	Miscellaneous Container		
21A0314-10 C	Miscellaneous Container	(FF)	
21A0314-11 A	Miscellaneous container, 1:1 HN03	(FF) <2	Pass
21A0314-11 B	Miscellaneous Container	(FF)	

Preservation Confirmed By

Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Aspect Consulting

Project Name: Hansville Landfill

COC No(s): _____ NA

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

Assigned ARI Job No: 21A0314

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 0837

07

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

Temp Gun ID#: DOO 5206

Cooler Accepted by: SC Date: 1/21/21 Time: 0837

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: JS Date: 01/22/2021 Time: 0913 Labels checked by: JS

**** 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: _____



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-5-012021
21A0314-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 09:55

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 19:57

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO₃ matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-01 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00182	mg/L	



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-5-012021
21A0314-01 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 09:55

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 16:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-01 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	4.49	mg/L	H

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

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-7-012021
21A0314-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 08:45

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 19:32

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-02 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00135	mg/L	



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-7-012021
21A0314-02 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 08:45

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 18:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-02 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	0.250	mg/L	H

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

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-12I-012021
21A0314-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 11:10

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 19:36

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO₃ matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-03 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00257	mg/L	



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-12I-012021
21A0314-03 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 11:10

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 18:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-03 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	H, 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	H, U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-13D-012021
21A0314-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 12:40

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 19:40

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO₃ matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-04 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00523	mg/L	



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-13D-012021

21A0314-04 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 12:40

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 18:58

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-04 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	H, 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	H, U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-14-012021
21A0314-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 13:55

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 19:44

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-05 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.0105	mg/L	



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Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-14-012021
21A0314-05 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 13:55

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 19:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-05 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	H, 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	H, U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
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Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

SW-1-012021
21A0314-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 10:45

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 19:48

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-06 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00159	mg/L	



Test America - Denver
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Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

SW-1-012021
21A0314-06 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 10:45

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 20:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-06 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	1.91	mg/L	H

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

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
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Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

SW-4-012021
21A0314-07 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 11:20

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 19:53

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-07 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00195	mg/L	



Test America - Denver
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Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

SW-4-012021
21A0314-07 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 11:20

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 20:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-07 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	0.996	mg/L	H

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

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



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Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

SW-6-012021
21A0314-08 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 11:45

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 20:58

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-08 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	0.225	mg/L	H

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

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

SW-7-012021
21A0314-09 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 12:45

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 20:29

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-09 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00119	mg/L	



Test America - Denver
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Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

SW-7-012021
21A0314-09 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 12:45

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 21:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-09 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	2.39	mg/L	H

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

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



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Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-6-012021
21A0314-10 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 14:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 20:33

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-10 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00179	mg/L	



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Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-6-012021
21A0314-10 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 14:00

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 21:39

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-10 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

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	0.123	mg/L	H

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

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



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Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-20DD-012021
21A0314-11 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/20/2021 00:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 20:38

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO₃ matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0314-11 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.0104	mg/L	



Test America - Denver
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Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

MW-20DD-012021
21A0314-11 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 01/20/2021 00:00

Instrument: IC930 Analyst: KOTT

Analyzed: 01/22/2021 21:59

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21A0314-11 A

Preparation Batch: BJA0597

Sample Size: 10 mL

Prepared: 01/22/2021

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Orthophosphorus	1426-54-42	1	0.10	0.10	ND	mg-P/L	H, U



Test America - Denver
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Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BJA0761 - REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJA0761-BLK1)					Prepared: 29-Jan-2021 Analyzed: 29-Jan-2021 16:08						
Arsenic, Dissolved	75a	ND	0.000200	mg/L							U
LCS (BJA0761-BS1)					Prepared: 29-Jan-2021 Analyzed: 29-Jan-2021 16:12						
Arsenic, Dissolved	75a	0.0247	0.000200	mg/L	0.0250		98.8	80-120			
Duplicate (BJA0761-DUP1)					Source: 21A0314-01 Prepared: 29-Jan-2021 Analyzed: 29-Jan-2021 20:01						
Arsenic, Dissolved	75a	0.00187	0.000200	mg/L		0.00182			2.76	20	
Matrix Spike (BJA0761-MS1)					Source: 21A0314-01 Prepared: 29-Jan-2021 Analyzed: 29-Jan-2021 20:07						
Arsenic, Dissolved	75a	0.0259	0.000200	mg/L	0.0250	0.00182	96.4	75-125			

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



Test America - Denver
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Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

Wet Chemistry - Quality Control

Batch BJA0597 - No Prep Wet Chem

Instrument: IC930 Analyst: KOTT

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJA0597-BLK1)						Prepared: 22-Jan-2021 Analyzed: 22-Jan-2021 17:38					
Nitrate-N	ND	0.100	0.100	mg/L							U
Nitrite-N	ND	0.100	0.100	mg/L							U
Orthophosphorus	ND	0.10	0.10	mg-P/L							U
LCS (BJA0597-BS1)						Prepared: 22-Jan-2021 Analyzed: 22-Jan-2021 17:58					
Nitrate-N	5.04	0.100	0.100	mg/L	5.00		101	90-110			
Nitrite-N	4.87	0.100	0.100	mg/L	5.00		97.4	90-110			
Orthophosphorus	4.95	0.10	0.10	mg-P/L	5.00		98.9	90-110			
Duplicate (BJA0597-DUP1)						Source: 21A0314-01 Prepared: 22-Jan-2021 Analyzed: 22-Jan-2021 16:58					
Nitrate-N	4.51	0.100	0.100	mg/L		4.49			0.42	20	
Nitrite-N	ND	0.100	0.100	mg/L		ND					U
Orthophosphorus	ND	0.10	0.10	mg-P/L		ND					U
Matrix Spike (BJA0597-MS1)						Source: 21A0314-01 Prepared: 22-Jan-2021 Analyzed: 22-Jan-2021 16:38					
Nitrate-N	6.33	0.100	0.100	mg/L	2.00	4.49	92.1	75-125			
Nitrite-N	1.63	0.100	0.100	mg/L	2.00	ND	81.5	75-125			
Orthophosphorus	2.01	0.10	0.10	mg-P/L	2.00	ND	100	75-125			

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



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 UCT-KED in Water	
Arsenic-75a	WADOE,WA-DW,DoD-ELAP
Arsenic-75a	NELAP,WA-DW,DoD-ELAP
Arsenic-75a	NELAP,WADOE,DoD-ELAP
Arsenic-75a	NELAP,WADOE,WA-DW,DoD-ELAP
EPA 300.0 in Water	
Nitrate-N	DoD-ELAP,WADOE,NELAP
Nitrate-N	DoD-ELAP,WADOE,WA-DW,NELAP
Nitrate-N	DoD-ELAP,WADOE,WA-DW
Nitrate-N	DoD-ELAP,WA-DW,NELAP
Nitrite-N	DoD-ELAP,WADOE,WA-DW
Nitrite-N	DoD-ELAP,WA-DW,NELAP
Nitrite-N	DoD-ELAP,WADOE,NELAP
Nitrite-N	DoD-ELAP,WADOE,WA-DW,NELAP
Orthophosphorus	DoD-ELAP,WADOE,NELAP
Orthophosphorus	DoD-ELAP,WADOE,WA-DW,NELAP
Orthophosphorus	DoD-ELAP,WADOE,WA-DW
Orthophosphorus	DoD-ELAP,WA-DW,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: 28006013
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:25

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
H	Hold time violation - Hold time was exceeded.
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.



23 February 2021

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

RE: Hansville

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)
21A0335

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, Inc.

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.



Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)
www.arilabs.com

[illegible]

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Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: US113991736
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-6-012021	21A0335-01	Water	25-Jan-2021 08:00	25-Jan-2021 11:50



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: US113991736
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:30

Work Order Case Narrative

Sample receipt

One sample as listed on the preceding page was received 25-Jan-2021 11:50 under ARI work order 21A0335. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Dissolved Arsenic - EPA Method 200.8

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

Initial and continuing calibrations were within method requirements.

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

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



WORK ORDER

21A0335

Client: Aspect Consulting, LLC.

Project Manager: Amanda Volgardsen Johnson

Project: Hansville Landfill

Project Number: [none]

Report To:

Aspect Consulting, LLC.
Aaron Pruitt
710 2nd Avenue, Suite 550
Seattle, WA 98104
Phone: 206-838-6587
Fax: -

Invoice To:

Test America - Denver
Sample Receiving
4955 Yarrow Street
Arvada, CO 80002
Phone : (303) 736-0100
Fax: (303) 431-7171

Date Due: 08-Feb-2021 18:00 (10 day TAT)

Received By: Jacob Walter

Date Received: 25-Jan-2021 11:50

Logged In By: Kenny Dang

Date Logged In: 25-Jan-2021 12:08

Samples Received at: 2.9°C

Intact, properly signed and dated custody seals attached to outside of cooler(s).....No
Custody papers properly filled out (in, signed, analyses requested, etc).....Yes
Was sufficient ice used (if appropriate).....Yes
All bottles arrived in good condition (unbroken).....Yes
Number of containers listed on COC match number received.....Yes
Correct bottles used for the requested analyses.....Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....Yes
Sample split at ARI.....No

Custody papers included with the cooler..... Yes
Was a temperature blank included in the cooler..... No
All bottles sealed in individual plastic bags..... No
All bottle labels complete and legible..... Yes
Bottle labels and tags agree with COC..... Yes
All VOC vials free of air bubbles..... No
Sufficient amount of sample sent in each bottle..... Yes

21A0335-01 SW-6-012520 [Water] Sampled 25-Jan-2021 08:00

Met Diss 200.8 - As UCT

02/08/2021

10

7/24/2021

Diss. Metals are FF

Preservation Confirmation

Container ID

Container Type

pH

21A0335-01 A

Miscellaneous container, 1:1 HN03

~2 Pass

KD

Preservation Confirmed By

Date

1/25/21



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Aspect/Test America - Denver

Project Name: Hansville Landfill

COC No(s): 21A0335 NA

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

Assigned ARI Job No: 21A0335

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) YES NO

Time 1150 2.9

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JB Date: 01/25/21 Time: 1150

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: KD Date: 1/25/21 Time: 1208 Labels checked by: KD

**** 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: _____



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: US113991736
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:30

SW-6-012021
21A0335-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED

Sampled: 01/25/2021 08:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 01/29/2021 20:42

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO₃ matrix
Preparation Batch: BJA0761 Sample Size: 25 mL
Prepared: 01/29/2021 Final Volume: 25 mL

Extract ID: 21A0335-01 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	0.00256	mg/L	



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: US113991736
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:30

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BJA0761 - REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJA0761-BLK1)						Prepared: 29-Jan-2021 Analyzed: 29-Jan-2021 16:08					
Arsenic, Dissolved	75a	ND	0.000200	mg/L							U
LCS (BJA0761-BS1)						Prepared: 29-Jan-2021 Analyzed: 29-Jan-2021 16:12					
Arsenic, Dissolved	75a	0.0247	0.000200	mg/L	0.0250		98.8	80-120			



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: US113991736
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:30

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 UCT-KED in Water	
Arsenic-75a	NELAP,WADOE,DoD-ELAP
Arsenic-75a	NELAP,WA-DW,DoD-ELAP
Arsenic-75a	WADOE,WA-DW,DoD-ELAP
Arsenic-75a	NELAP,WADOE,WA-DW,DoD-ELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



Test America - Denver
4955 Yarrow Street
Arvada CO, 80002

Project: Hansville
Project Number: US113991736
Project Manager: Betsy Sara

Reported:
23-Feb-2021 16:30

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Chain of Custody Record

Denver #280



Environment Testing
TestAmerica

Client Information Client Contact: <u>Meilani Lanier - Kamuhao</u> Company: <u>Aspect Consulting, LLC</u> Address: <u>350 Madison Ave N</u> City: <u>Bainbridge Island</u> State: <u>WA</u> Zip: <u>98110</u> Phone: <u>(206) 413-5408</u> Email: <u>mlkamuhao@aspectconsulting.com</u> Project Name: <u>Hansville Landfill</u> Site: <u>Washington</u>		Lab PM: <u>Sara, Betsy A</u> E-Mail: <u>Betsy.Sara@Eurofins.com</u> Sampler: <u>DCB/DWU/C&B</u> Phone: <u>(206) 413-5408</u> Due Date Requested: <u>std</u> TAT Requested (days): <u>std</u> PO #: <u>Purchase Order not required</u> WO #: <u>28006013 - 1Q Sampling</u> Project # skip sites/events: <u>SSOW#:</u>		Carrier Tracking No(s): <u>280-23414-6845.1</u> Page: <u>1/2</u> Job #: <u>166423</u> Analysis Requested: <table border="1"> <tr> <td>8260C SIM - Vinyl Chloride (TA Buffalo)</td> <td>Disolved Metals</td> <td>Ammonia/TC</td> <td>Alk/Cl/SC4</td> <td>Ortho-phosphate (field filtered) - Direct sub to ARI</td> <td>Disolved Arsenic (Direct sub to ARI)</td> <td>8260C - Full Scan VOA (TA Buffalo)</td> <td>Nitrate/Nitrite (IC) - Direct sub to ARI</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>		8260C SIM - Vinyl Chloride (TA Buffalo)	Disolved Metals	Ammonia/TC	Alk/Cl/SC4	Ortho-phosphate (field filtered) - Direct sub to ARI	Disolved Arsenic (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)	Nitrate/Nitrite (IC) - Direct sub to ARI	X	X	X	X	X	X	X	X	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - ASNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (Specify) Other:																																									
8260C SIM - Vinyl Chloride (TA Buffalo)	Disolved Metals	Ammonia/TC	Alk/Cl/SC4	Ortho-phosphate (field filtered) - Direct sub to ARI	Disolved Arsenic (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)	Nitrate/Nitrite (IC) - Direct sub to ARI																																																								
X	X	X	X	X	X	X	X																																																								
Sample Identification <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (H=water, S=solid, O=soil, L=leachate, A=air)</th> </tr> </thead> <tbody> <tr> <td>MW-5-012021</td> <td>1/20/21</td> <td>0955</td> <td>G</td> <td>W</td> </tr> <tr> <td>MW-7-012021</td> <td></td> <td>0845</td> <td></td> <td></td> </tr> <tr> <td>MW-12 I-012021</td> <td></td> <td>1110</td> <td></td> <td></td> </tr> <tr> <td>MW-13 D-012021</td> <td></td> <td>1240</td> <td></td> <td></td> </tr> <tr> <td>MW-14-012021</td> <td></td> <td>1355</td> <td></td> <td></td> </tr> <tr> <td>SW-1-012021</td> <td></td> <td>1045</td> <td></td> <td></td> </tr> <tr> <td>SW-4-012021</td> <td></td> <td>1120</td> <td></td> <td></td> </tr> <tr> <td>SW-6-012021</td> <td></td> <td>1145</td> <td></td> <td></td> </tr> <tr> <td>SW-7-012021</td> <td></td> <td>1245</td> <td></td> <td></td> </tr> <tr> <td>MW-6-012021</td> <td></td> <td>1400</td> <td></td> <td></td> </tr> <tr> <td>MW-20DD-012021</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (H=water, S=solid, O=soil, L=leachate, A=air)	MW-5-012021	1/20/21	0955	G	W	MW-7-012021		0845			MW-12 I-012021		1110			MW-13 D-012021		1240			MW-14-012021		1355			SW-1-012021		1045			SW-4-012021		1120			SW-6-012021		1145			SW-7-012021		1245			MW-6-012021		1400			MW-20DD-012021					Special Instructions/Note: Diss As, NO3, NO2, o-phos subbed direct to ADI 280-144864 Chain of Custody	
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (H=water, S=solid, O=soil, L=leachate, A=air)																																																											
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MW-20DD-012021																																																															
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months		Special Instructions/QC Requirements:																																																											
Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Date/Time: <u>1/21/2021 0900</u> Date/Time: <u>Aspect</u> Date/Time: <u>Company</u>		Date/Time: <u>1/21/2021 1000</u> Date/Time: <u>Company</u> Date/Time: <u>Company</u>																																																											
Custody Seal Intact: <u>Yes</u> ☐ <u>No</u> ☐ Custody Seal No.: <u>1087827</u>		Date/Time: <u>1087832</u> Date/Time: <u>1087830</u>		Date/Time: <u>1087830</u> Date/Time: <u>1087830</u>																																																											

[illegible]

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280-144864 Waybill

**Environment Testing
TestAmerica**

eurofins

1087827

525

DATE: 2021-01-22
TIME: 10:30
CITY: DENVER
STATE: CO

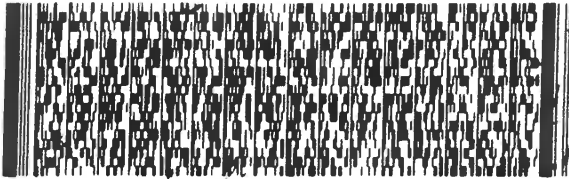
TO **SAMPLE RECEIVING**
TESTAMERICA DENVER
4955 YARROW ST

ARVADA CO 80002-4517

(303) 736-0100

REF:

DEPT:



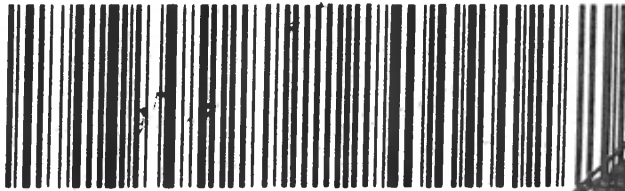
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FRI - 22 JAN 10:30A
PRIORITY OVERNIGHT

AHS
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ORIGIN ID:BFIA

650

4 10:30 5911 01.22

TO SAMPLE RECEIVING
TESTAMERICA DENVER
4955 YARROW ST

ARVADA CO 80002-4517

(US)

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INVT
POI

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DEPT:



FedEx
Express



TRK# 8156 5958 5911
0667

FRI - 22 JAN 10:30A
PRIORITY OVERNIGHT

XH LAAA

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80002
CO-US DEN





Client Information (Sub Contract Lab)						Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 10 Hazelwood Drive, City: Amherst State, Zip: NY, 14228-2298 Phone: 716-691-2600(Tel) 716-691-7991(Fax) Email: Project Name: Hansville Landfill Site: Hansville						Phone:	Sara, Betsy A E-Mail: Betsy.Sara@Eurofins.com	State of Origin: Washington	280-555311.1
								Page: Page 1 of 2	
								Job #: 280-144864-1	
								Preservation Codes: A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NaHSO4 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:	
								Total Number of containers	
Sample Identification - Client ID (Lab ID)									
MW12I-012021 (280-144864-1)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, AAAB)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C-SIM/5030C (MOD) Local Method	8260C/5030C (MOD) Appendix II Volatiles	
	1/20/21	11:10 Pacific		Water		X	X	X	Special Instructions/Note:
MW13D-012021 (280-144864-2)	1/20/21	12:40 Pacific		Water		X	X	X	
MW14-012021 (280-144864-3)	1/20/21	13:55 Pacific		Water		X	X	X	
MW20DD-012021 (280-144864-4)	1/20/21	Pacific		Water		X	X	X	
MW5-012021 (280-144864-5)	1/20/21	09:55 Pacific		Water		X	X	X	
MW6-012021 (280-144864-6)	1/20/21	14:00 Pacific		Water		X	X	X	
MW7-012021 (280-144864-7)	1/20/21	08:45 Pacific		Water		X	X	X	
SW1-012021 (280-144864-8)	1/20/21	10:45 Pacific		Water		X	X	X	
SW4-012021 (280-144864-9)	1/20/21	11:20 Pacific		Water		X	X	X	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify)									
Primary Deliverable Rank: 2									
Empty Kit Relinquished by:									
Relinquished by: [Signature]									
Relinquished by: [Signature]									
Relinquished by:									
Custody Seals Intact: Δ Yes Δ No									
Custody Seal No.: 2,9 # 17CE									
Cooler Temperature(s) °C and Other Remarks:									
Date: 1/25/21 1400									
Time: 1400									
Received by: [Signature]									
Received by:									
Received by:									
Method of Shipment:									
Return To Client									
Disposal By Lab									
Archive For Months									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 280-144864-1

Login Number: 144864

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Dubicki, Adam L

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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
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.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 280-144864-1

Login Number: 144864

List Number: 2

Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

List Creation: 01/27/21 02:55 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	2.9 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	

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 280-144864-1

Login Number: 144948

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Sara, Betsy A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		