May 30, 2017

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

Re: First Quarter 2017 Environmental Monitoring Report, Hansville Landfill, Kitsap County, WA
Project No. 160423-05.1

Dear Alexis:

This quarterly report summarizes the results of the environmental monitoring conducted at the Hansville Landfill Site (Site) during the first quarter of 2017, and was prepared by Aspect Consulting, LLC (Aspect) on behalf of Kitsap County Public Works Solid Waste Division 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 report were collected in accordance with the Site cleanup action plan, sampling and analysis plan, and quality assurance plan (SCS Engineers, 2011), except where otherwise noted.

During the first quarter of 2017, conditions monitored at the Site 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 Engineers, 2011) and includes:

- Site monitoring and maintenance activities, along with a discussion of any deviations from the Cleanup Action Plan (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.

Site Activities – First Quarter 2017

Site activities included project transition and environmental monitoring of landfill gas, groundwater, and surface water. Landfill gas monitoring data are presented in Attachment A. Groundwater elevations, a groundwater contour map, and groundwater and surface water quality analytical results are presented in Attachment B. Summary statistics, time-series graphs, and graphs of projected groundwater concentrations for arsenic and vinyl chloride at selected monitoring wells are presented in Attachment C. Supporting field records, laboratory data reports, and chain-of-

custody documentation are presented in Attachment D. A chronology of on-Site activities performed during the first quarter of 2017 is provided below.

- On January 24, 2017, as part of project transition, a Site tour was conducted by SCS Engineers with representatives from Aspect, Kitsap County Public Works Solid Waste Division, and WMW. The tour included visiting the landfill gas flare compound, groundwater monitoring well locations, and each of the surface water sampling locations.
- On January 24, 2017, water from two sumps was pumped out by Kitsap County Public Works operations staff, and was observed by Aspect representatives. The sumps were designed to store condensate from the landfill gas collection system.
- On January 25, 2017, as part of project transition, a landfill gas collection system survey was conducted by representatives from Aspect and WMW. Many of the landfill gas monitoring locations were inspected to evaluate the condition of the monitoring assemblies, including the flare compound, trench collectors, and perimeter and interior vertical extraction wells.
- On January 25 and 26, 2017, groundwater and surface water sampling was completed by Aspect representatives. Groundwater and surface water samples were collected in accordance with the Compliance Monitoring Plan (SCS Engineers, 2011), with the exceptions described below.
- On January 27, February 27, and March 31, 2017, Aspect conducted landfill gas monitoring in accordance with the Compliance Monitoring Plan (SCS Engineers, 2011). Landfill gas monitoring on March 31, 2017, also included flow rate measurements using an anemometer, and reducing flows from perimeter extraction wells to focus landfill gas collection at locations inside the extent of municipal solid waste.

Deviations from the Compliance Monitoring Plan

There were deviations from the Compliance Monitoring Plan (SCS Engineers, 2011) that affected groundwater and surface water sample results. However, these environmental sampling deviations did not affect landfill gas collection performance or the project schedule for Site cleanup. The causes of the deviations are identified below, as are solutions for avoiding these issues during future monitoring events.

Water quality samples collected for analysis of dissolved arsenic, dissolved manganese, and orthophosphate (as P) were not field filtered, as specified in the Compliance Monitoring Plan (SCS Engineers, 2011). When collecting groundwater samples, Aspect representatives found there was insufficient pressure provided by the dedicated submersible Grundfos pumps to force water through the 0.45-micrometer filters. Based on guidance provided by the laboratory, unfiltered samples were collected in the laboratory-supplied bottles after they were triple-rinsed to remove acid preservative. The laboratory was instructed to filter the samples prior to analysis. Surface water samples were similarly collected without field filtering, and submitted to the laboratory to be filtered at the lab prior to being analyzed. Because these samples should have been field filtered and were not, they were subsequently determined to not be representative. Results for dissolved fraction of arsenic, dissolved manganese, and orthophosphate (as P) were classified as unusable per the data validation process in the Compliance Monitoring Plan. Because the laboratory-reported concentrations were not representative of groundwater or surface water, these values were not included on Tables B-2 or

B-3, and were instead flagged "R." Future samples requiring field filtering will be collected using a peristaltic pump to provide sufficient pressure to convey water through the field filter.

Some samples collected for analysis of ammonia, nitrate, and nitrite were not analyzed within the 48-hour hold time. Affected results were classified as useable per the data validation process in the Compliance Monitoring Plan. These data were reported and qualified as "J," flagged on Tables B-2 and B-3. Future samples will be collected, transported, and analyzed with the goal of meeting the 48-hour hold times for selected analytes.

Summary of Landfill Gas Conditions

The following sections provide a discussion of landfill gas monitoring, gas extraction system performance, and condensate system maintenance conducted during the first quarter of 2017.

Landfill Gas Monitoring

During the first quarter of 2017, the landfill gas collection system and compliance probes were tuned on January 27 and February 27, and monitored on March 31.

Measurements were made with a GEM-5000 multigas meter. Landfill gas monitoring parameters 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 selected locations. At locations with orifice plates, the differential pressure and gas temperature were measured to calculate flow. These locations include the blower inlet, extraction wells R-2, R-3, R-11, and R-12, and trench collector TR-7. Flows at selected locations without orifice plates (including trench collector TD-1, and native-soil extraction well pairs NS-2s, NS-2d, NS-3s, NS-3d, NS-4s, NS-4d, NS-5s, and NS-5d) were measured using a hot-wire anemometer. The hot-wire anemometer malfunctioned before flows could be collected at other locations. Table A-1 presents flow rates measured before and after valve adjustments reported as "initial" and "adjusted," respectively.

Landfill Gas System Performance

The flow at the blower inlet was approximately 75 standard cubic feet per minute (SCFM). The elevated oxygen and balance gas concentrations at the blower inlet indicated an abundance of atmospheric air being collected. To improve landfill gas collection system performance, flows were redirected from native soil extraction wells to extraction wells and trench collectors within the extent of municipal solid waste. The *2010 Annual Monitoring Report* (Parametrix, 2011) states that the native soil extraction wells were disconnected from the blower. However, flows observed during the first quarter of 2017 at the native soil extraction wells accounted for nearly half of the total flow measured at the blower inlet. Therefore, valves at native soil extraction wells were closed on March 31, 2017.

Explosive Gas Control
Methane was not detected in any of the compliance gas probes. Carbon dioxide concentrations were less than 5 percent, which is within the range of natural conditions.

Condensate System Maintenance
The two sumps connected to the landfill gas collection system were pumped empty in order to observe how quickly they refilled. These sumps were each designed to store approximately 1,000 gallons of condensate fluid. A Kitsap County Public Works operations crew member emptied the sumps on January 24, 2017. Based on the observed refill rate, it was determined leaks may be allowing stormwater into the sumps. Additional inspection and maintenance will be conducted in the summer of 2017, when drier weather conditions are expected.

Summary of Groundwater and Surface Water Conditions
The following sections provide a discussion on groundwater flow, water quality, and an evaluation of statistical trends for selected groundwater parameters.

Groundwater Flow
Groundwater surface elevations from the first quarter of 2017 are presented in Table B-1. Groundwater elevations ranged from 238.3 feet North American Vertical Datum of 1988 (NAVD88) in MW-12I to 267.0 feet NAVD88 in MW-5. Groundwater at the Site flows generally towards the southwest. Groundwater gradients range from 0.005 feet/feet in the upgradient areas, to 0.02 feet/feet further downgradient, with the gradient steepening as it approaches the groundwater discharge area (Figure B-1). Groundwater elevation and gradient conditions are consistent with those presented in previous monitoring events.

Groundwater and Surface Water Quality
Groundwater quality results from the first quarter of 2017 are presented in Table B-2, including field parameters, conventional parameters, dissolved metals, and volatile organic compounds. During the first quarter of 2017, vinyl chloride concentrations in groundwater were above the Site-specific groundwater cleanup level of 0.025 micrograms per liter (µg/L) at three monitoring wells, including MW-6 (0.16 µg/L), MW-12I (0.06 µg/L), and MW-14 (0.14µg/L). These values are consistent with the decreasing trend in vinyl chloride concentrations observed during previous monitoring events.

Surface water quality results from the first quarter of 2017 are presented in Table B-3, including field parameters, conventional parameters, dissolved metals, and volatile organic compounds. During the first quarter of 2017, no volatile organic compounds were detected in surface water samples, and vinyl chloride concentrations were, therefore, below the Site-specific cleanup level of 0.025 µg/L. Vinyl chloride has not been detected in surface water samples since the third quarter of 2013.

For samples collected during the first quarter of 2017, dissolved arsenic, dissolved manganese, and orthophosphate (as P) results for groundwater and surface water were classified as unusable due to deviations from the Compliance Monitoring Plan, as described above. Tables B-2 and B-3 indicate a “R” qualifier for affected samples.

Time-Series Plots and Projected Trends

Groundwater sampling results since 2007 are shown on time-series graphs for dissolved arsenic (Figure C-1) and vinyl chloride (Figure C-2) at all compliance monitoring locations. In general, dissolved arsenic concentrations in groundwater have been less than the cleanup level of 0.005 mg/L, except at MW-14. Vinyl chloride concentrations in groundwater have been less than the cleanup level of 0.025 µg/L, except at MW-6, MW-12I, and MW-14.

Figure C-3 shows time-series graphs of historical and 10-year projected groundwater concentrations for MW-6 (vinyl chloride), MW-12I (vinyl chloride), and MW-14 (arsenic and vinyl chloride). Projected groundwater concentrations reflect the exponential trend of historical groundwater concentrations. Optimizing landfill gas collection will reduce the gas-to-groundwater pathway, and may achieve groundwater cleanup levels within a shorter time frame than shown on Figure C-3.

Statistical Evaluation of Groundwater Trends

Dissolved arsenic and/or vinyl chloride concentrations in groundwater show statistically significant decreasing trends at monitoring wells MW-6, MW-12I, and MW-14, where one or both constituents have been detected above Site-specific cleanup levels.

Statistical analysis of groundwater data was performed in accordance with the Compliance Monitoring Plan (SCS Engineers, 2011) for historic 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 a Test Value "S" (where the number of data points was 40 or less), or 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.

Table C-1 provides results of statistical analysis for arsenic and vinyl chloride for monitoring wells where the most recent quarterly results exceeded their Site-specific cleanup levels. Table C-2 presents the full statistical dataset upon which these analyses are based. The statistical trend summarizes the results of Mann-Kendall Test and Sen's Slope analysis. In all cases, the trends are statistically significant because the Mann-Kendall Test Value (Z or S) was greater than the Critical Value (which is based on the number of data points and alpha). In all cases, the trends are decreasing because the Sen's Slope is negative[1]. In summary, Table C-1 shows that dissolved arsenic concentrations in groundwater at MW-14, and vinyl chloride concentrations in groundwater at MW-6, MW-12I, and MW-14, have statistically significant downward trends.

The annual report will provide additional statistical evaluation, including updates for the Upper and Lower Confidence Limits at selected wells to provide context for projected groundwater concentrations.

[1] Sen's slope values reflect the median of the slopes of historical data pairs, and have been provided in units of µg/L per day in previous reports by SCS. Starting with this report, Sen's slope values will be provided in units of µg/L per year, which may be easier to interpret. For comparison, Table C-1 provides Sen's slope values for both units.

Geochemical Parameters

Geochemical parameters in groundwater and surface water serve as indicators of landfill effects, and can distinguish leachate impacts from gas-to-groundwater impacts. As shown on Tables B-2 and B-3, geochemical parameters collected at the Landfill 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.

During the first quarter of 2017, dissolved oxygen represented the clearest indicator of landfill effects. The downgradient monitoring wells show lower dissolved oxygen concentrations than the upgradient well (MW-5) or surface water sampling locations (SW-1, SW-4, SW-6, and SW-7), consistent with previous observations. Based on similar concentrations for other geochemical parameters (such as chloride) across the Site, there appears to be little if any leachate effect on groundwater and surface water quality. Optimizing landfill gas collection will reduce the gas-to-groundwater pathway that appears to be affecting groundwater geochemistry, and will reduce the potential for vinyl chloride and arsenic impacts to groundwater.

References

Parametrix, 2011, Hansville Landfill Environmental Monitoring Report—2010 Annual Report, March 2011.

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

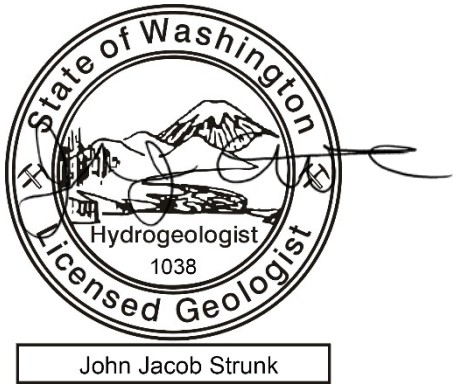
Limitations

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

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

Sincerely,

Aspect consulting, LLC



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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
Jan Brower, Kitsap Public Health District
David South, Washington State Department of Ecology
Sam Phillips, Port Gamble S'Klallam Tribe

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ATTACHMENT A

Landfill Gas Data

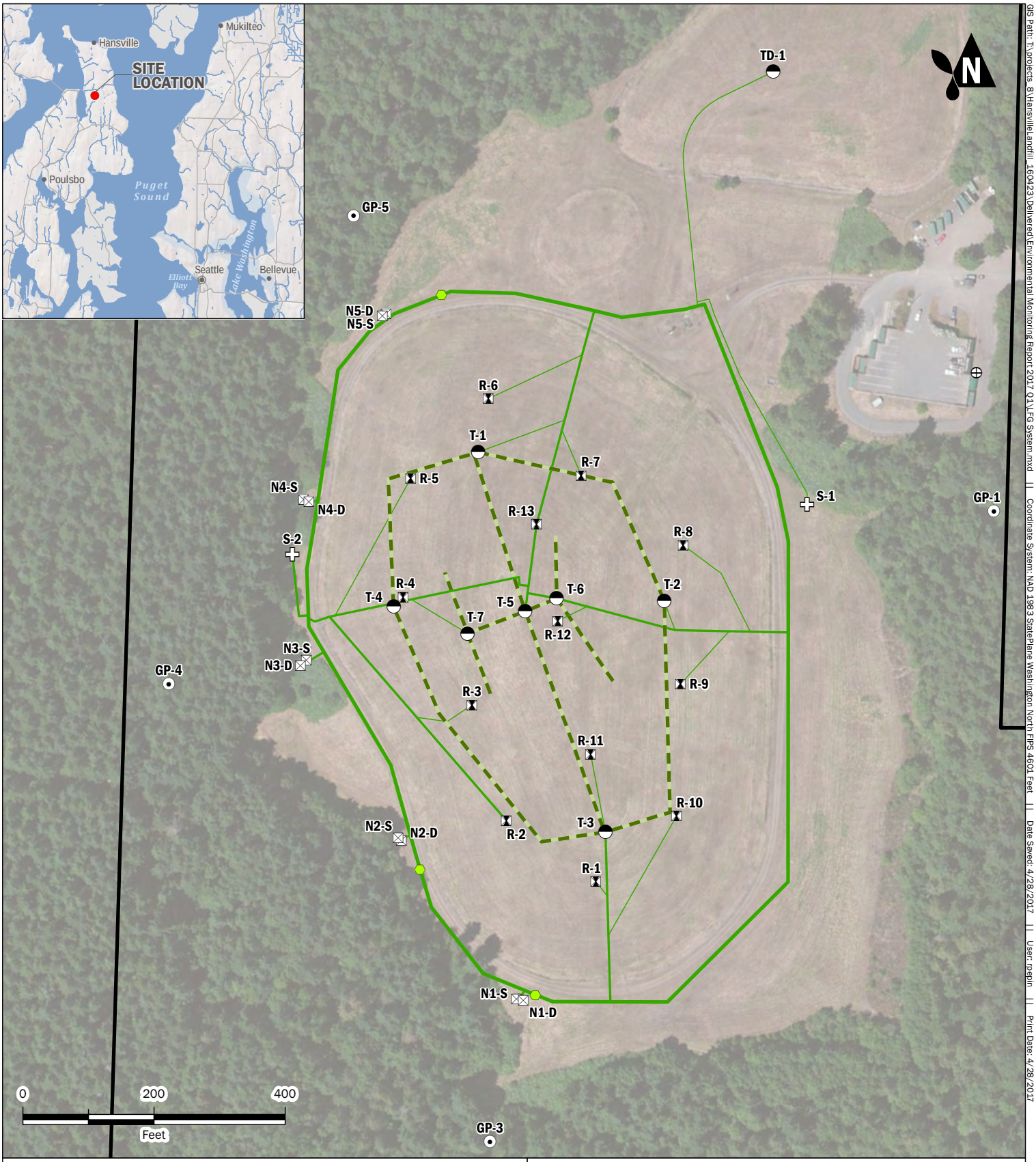
Table A-1 – Landfill Gas Data, March 31, 2017

Project No. 060423, Hansville Landfill, Hansville, WA

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	Maximum	Initial	Adjusted	Maximum	Initial	Adjusted
Blower Inlet	HANSBLIN	3/31/2017 6:29	2.6	13.3	5.9	78.2	-3.17	-3.2	-3.17	43.3	43.3	43.3	75.3 *	75.1 *
Blower Outlet	HANSBLOT	3/31/2017 6:31	2.6	13.4	6.3	77.7	-0.01	-0.01	-0.01	45.7	45.7	45.7	N/A	N/A
Extraction Well 001	HANSR001	3/31/2017 8:52	7.8	12.2	0.4	79.6	-0.76	-0.77	-0.76	52.3	52.3	52.3	N/A	N/A
Extraction Well 002	HANSR002	3/31/2017 11:43	2	14.5	3.9	79.6	-1.94	-1.94	-1.94	59	59.1	59.1	N/A	N/A
Extraction Well 003	HANSR003	3/31/2017 11:36	10.3	13.5	0	76.2	-1.09	-1.14	-1.09	54.5	54.4	54.5	2.4 *	2.4 *
Extraction Well 004	HANSR004	3/31/2017 11:25	3.5	16.1	2	78.4	-2.55	-2.55	-2.55	59.1	59.2	59.2	0.8 *	0.8 *
Extraction Well 005	HANSR005	3/31/2017 9:55	4.6	16.5	2.4	76.5	-2.63	-2.63	-2.63	66.5	66.6	66.6	N/A	N/A
Extraction Well 006	HANSR006	3/31/2017 9:38	2.6	17.5	1.9	78	-1.28	-1.28	-1.28	54.5	54.6	54.6	N/A	N/A
Extraction Well 007	HANSR007	3/31/2017 9:32	2.5	15.7	0.4	81.4	-1.26	-1.27	-1.26	57.9	57.9	57.9	N/A	N/A
Extraction Well 008	HANSR008	3/31/2017 8:24	4.7	13.7	5.9	75.7	-0.7	-0.7	-0.7	47.4	47.4	47.4	N/A	N/A
Extraction Well 009	HANSR009	3/31/2017 8:40	1.3	16.6	1.2	80.6	-0.82	-0.82	-0.82	53.4	53.4	53.4	N/A	N/A
Extraction Well 010	HANSR010	3/31/2017 8:45	7.3	10.8	2.5	79.4	-0.88	-0.87	-0.87	50	50	50	N/A	N/A
Extraction Well 011	HANSR011	3/31/2017 9:03	4.4	4.2	0	91.4	-0.85	-0.84	-0.84	48.9	48.9	48.9	0.2 *	0.2 *
Extraction Well 012	HANSR012	3/31/2017 9:09	1.8	9	5.8	83.4	-0.85	-0.84	-0.84	49.9	49.9	49.9	0 *	0 *
Extraction Well 013	HANSR013	3/31/2017 9:26	5.8	11.1	2.1	81	-1.42	-1.42	-1.42	54.6	54.6	54.6	N/A	N/A
Trench Collector TD-1	HANSTD01	3/31/2017 6:39	0.8	21.1	0.2	77.9	-0.4	-0.39	-0.39	46.5	46.5	46.5	15.7 **	15.7 **
Trench Collector TR-1	HANSTR01	3/31/2017 9:46	2.4	15.8	2	79.8	-1.01	-1.02	-1.01	56	56	56	N/A	N/A
Trench Collector TR-2	HANSTR02	3/31/2017 8:32	1.4	16.5	1.4	80.7	-0.76	-0.75	-0.75	49.2	49.2	49.2	N/A	N/A
Trench Collector TR-3	HANSTR03	3/31/2017 8:57	7.1	10.6	0.5	81.8	-0.97	-0.96	-0.96	51.4	51.4	51.4	N/A	N/A
Trench Collector TR-4	HANSTR04	3/31/2017 11:20	6	15.4	0.1	78.5	-1.32	-1.34	-1.32	54.8	54.8	54.8	N/A	N/A
Trench Collector TR-5	HANSTR05	3/31/2017 9:19	0.5	0.9	19.6	79	-0.83	-0.83	-0.83	53.7	53.8	53.8	N/A	N/A
Trench Collector TR-6	HANSTR06	3/31/2017 9:14	1.6	15.1	2.7	80.6	-0.8	-0.81	-0.8	53.6	53.6	53.6	N/A	N/A
Trench Collector TR-7	HANSTR07	3/31/2017 11:31	7.8	14.8	1.1	76.3	-1	-1.01	-1	53.1	53.1	53.1	2.3 *	2.4 *
Native Soil Extraction Well 1 Shallow	HANSN01S	3/31/2017 8:13	0	2.1	18.9	79	-0.29	-0.27	-0.27	47.7	47.7	47.7	N/A	N/A
Native Soil Extraction Well 1 Deep	HANSN01D	3/31/2017 8:06	0	2.4	18.8	78.8	-0.43	-0.42	-0.42	47.3	47.3	47.3	N/A	N/A
Native Soil Extraction Well 2 Shallow	HANSN02S	3/31/2017 7:59	0	1.4	20.1	78.5	-0.27	-0.27	-0.27	46.9	47	47	0 **	0 **
Native Soil Extraction Well 2 Deep	HANSN02D	3/31/2017 7:53	0	1.6	20	78.4	-0.3	-0.3	-0.3	46.3	46.3	46.3	0 **	0 **
Native Soil Extraction Well 3 Shallow	HANSN03S	3/31/2017 7:37	0	4.3	17.2	78.5	-1.43	-1.43	-1.43	49.7	49.8	49.8	4.3 **	0 **
Native Soil Extraction Well 3 Deep	HANSN03D	3/31/2017 7:44	0	4	17.3	78.7	-1.73	-1.73	-1.73	49.8	49.7	49.8	7.5 **	0 **
Native Soil Extraction Well 4 Shallow	HANSN04S	3/31/2017 7:23	0	2.1	19.6	78.3	-0.85	-0.85	-0.85	48.2	48.3	48.3	1.9 **	0 **
Native Soil Extraction Well 4 Deep	HANSN04D	3/31/2017 7:29	0	1.7	19.7	78.6	-1.78	-1.78	-1.78	49.4	49.4	49.4	8.6 **	0 **
Native Soil Extraction Well 5 Shallow	HANSN05S	3/31/2017 7:00	0	2.2	18.9	78.9	-1.74	-1.74	-1.74	49.3	49.3	49.3	7.9 **	0 **
Native Soil Extraction Well 5 Deep	HANSN05D	3/31/2017 7:06	0	1.1	20.2	78.7	-0.38	-0.38	-0.38	43.9	43.9	43.9	0 **	0 **
Gas Probe 1	HANSGP01	3/31/2017 12:03	0	0.7	20.9	78.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Shallow	HANSGP2S	3/31/2017 12:13	0	0.1	21.3	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Middle	HANSGP2M	3/31/2017 12:26	0	0.8	20.6	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 2 Deep	HANSGP2D	3/31/2017 12:46	0	1.2	18.5	80.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 3	HANSGP03	3/31/2017 12:58	0	1.2	20.7	78.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 4	HANSGP04	3/31/2017 13:11	0	1.7	20.1	78.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 5	HANSGP05	3/31/2017 13:44	0	1.1	20.4	78.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 6	HANSGP06	3/31/2017 6:51	0	2.7	19.2	78.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Probe 7	HANSGP07	3/31/2017 13:20	0	2.8	19	78.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes

* Flow rate measured using orifice plate.
** Flow rate measured with a hot-wire anemometer.
"N/A" indicates parameter not measured.
"inches H2O" - inches water column
"degrees F" - degrees Fahrenheith
"SCFM" - standard cubic feet per minute



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Exploration

- Condensate Sump
- Gas Detection Probe
- Gas Extraction Well (Native Soil Completion)
- Gas Extraction Well (in Refuse Completion)
- Trench Completion
- Well Geologic Control

Landfill Gas System

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

Landfill Gas System

First Quarter 2017 Environmental Monitoring Report
Hansville Landfill
Kitsap County, Washington

Aspect Consulting	APR-2017	BY: AHP / RAP	FIGURE NO. A-1
	PROJECT NO. 160423	REVISED BY: ---	

ATTACHMENT B

Water Quality Results

Table B-1. Water Level Elevations

Project No. 060423, 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	99.9	267.0
MW-6	332	332.7	260	245	73.9	258.9
MW-7	344.3	346.0	259	244	84.6	261.4
MW-12I	245.6	248.1	217	207	9.8	238.3
MW-13D	258.1	260.4	205	195	10.9	249.6
MW-14	338.6	341.1	262	247	81.3	259.8

Notes

Depths to water collected January 25-26, 2017

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

Table B-2. Groundwater Quality Results

Project No. 060423, Hansville Landfill, Hansville, WA

		Groundwater Monitoring Wells					
Parameter	**Site Cleanup Level**	**MW-5**	**MW-6**	**MW-7**	**MW-12I**	**MW-13D**	**MW-14**
Field Parameters							
Dissolved Oxygen (mg/L)		**8.4**	**0.4**	**1.8**	**0.2**	**0.2**	**0.4**
pH (units)		**7.5**	**7.0**	**7.1**	**7.1**	**7.5**	**7.0**
Redox (mV)		**19**	**13**	**12**	**27**	**97**	**8**
Specific Conductivity (uS)		**143**	**389**	**279**	**156**	**194**	**277**
Temperature (degrees C)		**12.5**	**16.1**	**9.5**	**10.0**	**10.6**	**14.7**
Turbidity (NTU)		**0.5**	**5.4**	**1.8**	**0.3**	**0.3**	**0.5**
Conventional Parameters (mg/L)							
Alkalinity		**59**	**150**	**160**	**77**	**76**	**120**
Ammonia (as N)		0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ
Bicarbonate		**59**	**150**	**160**	**77**	**76**	**120**
Carbonate		5 U	5 U	5 U	5 U	5 U	5 U
Chloride		**2.6**	**15**	**2**	**2.7**	**6.1**	**5.3**
Nitrate (as N)		**0.92 J**	**1.8 J**	**0.56 J**	0.5 UJ	0.5 UJ	0.5 UJ
Nitrite (as N)		0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Sulfate		**7.7**	**23**	**4.3**	**3.9**	**18**	**15**
Total Organic Carbon		1 U	**1.5**	**1.5**	**2.9**	1 U	1 U
Orthophosphate (as P)		R	R	R	R	R	R
Dissolved Metals (mg/L)							
Manganese	2.24	R	R	R	R	R	R
Arsenic	0.005	R	R	R	R	R	R
Volatile Organic Compounds (ug/L) [Only compounds detected in groundwater or surface water are shown.]							
1,2-Dichloroethenes, Total		2 U	2 U	2 U	2 U	2 U	**3.3**
cis-1,2-Dichloroethene		1 U	1 U	1 U	1 U	1 U	**3.3**
Diethyl Ether		1 U	**1.2**	1 U	1 U	1 U	1 U
Vinyl Chloride	0.025	0.02 U	**0.16**	0.02 U	**0.06**	0.02 U	**0.14**

Notes

Bold - detected

Shaded - Exceeded Site Cleanup Level

U - Not detected at or above reporting limit

J or UJ - Estimated "usable"

R - Rejected data, not representative of site conditions

"mg/L" - milligram per liter

"mV" - millivolts

"uS" - microSiemens

"degrees C" - degrees Celcius

"ug/L" - microgram per liter

"NTU" - Nephthalometric Turbidity Units

Table B-3. Surface Water Quality Results

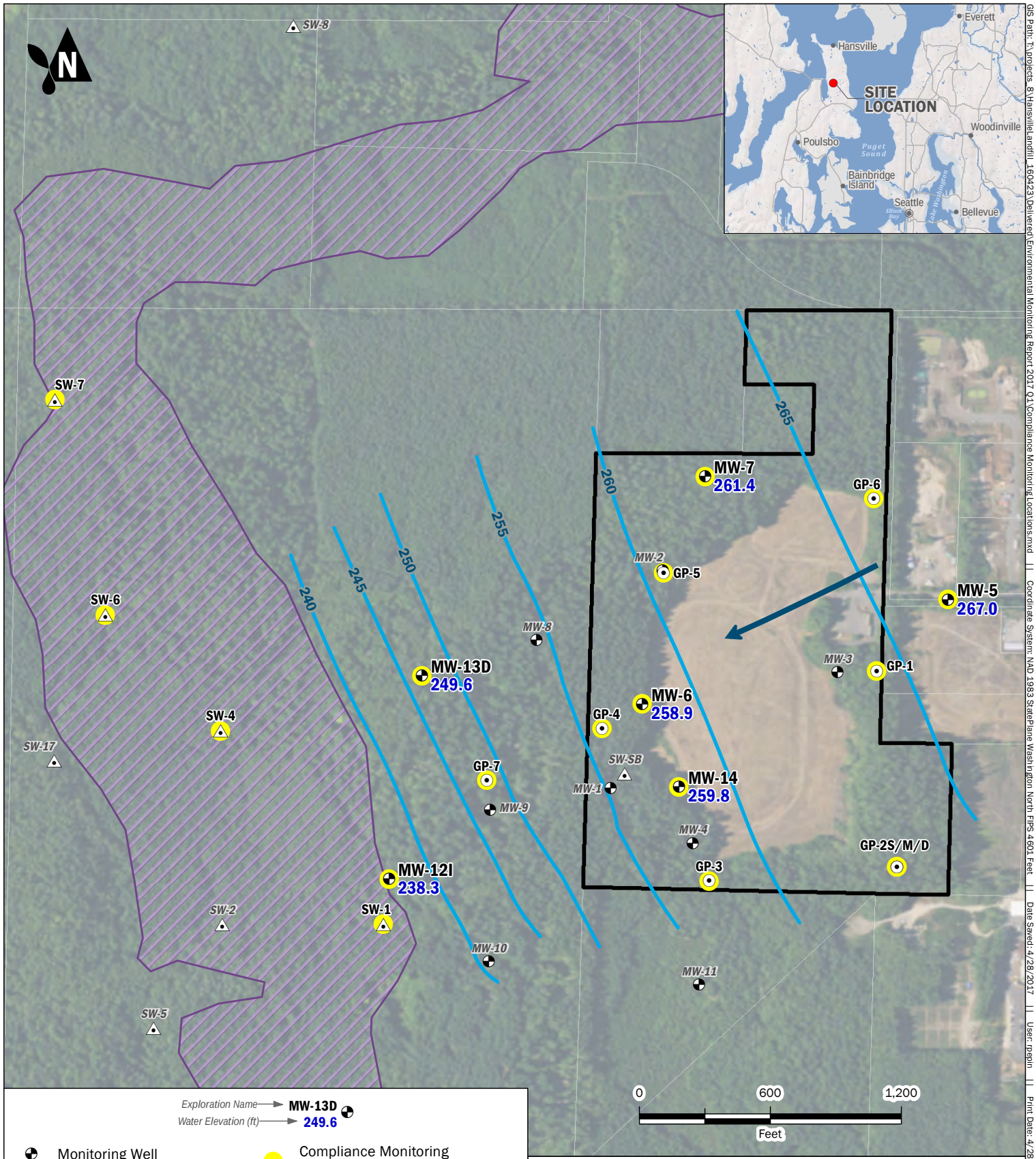
Project No. 060423, Hansville Landfill, Hansville, WA

		Surface Water Sampling Locations			
Parameter	**Site Cleanup Level**	**SW-1**	**SW-4**	**SW-6**	**SW-7**
Field Parameters					
Dissolved Oxygen (mg/L)		**10.3**	**10.9**	**10.1**	**12.1**
pH (units)		**7.0**	**7.5**	**6.9**	**7.2**
Redox (mV)		**137**	**119**	**127**	**118**
Specific Conductivity (uS)		**184**	**304**	**88**	**113**
Temperature (degrees C)		**8.4**	**6.8**	**5.2**	**6.3**
Turbidity (NTU)		**1.2**	**1.5**	**2.3**	**1.8**
Conventional Parameters (mg/L)					
Alkalinity		**76**	**130**	**30**	**37**
Ammonia (as N)		0.03 U	0.03 U	0.03 U	0.03 U
Bicarbonate		**76**	**130**	**30**	**37**
Carbonate		5 U	5 U	5 U	5 U
Chloride		**4.6**	**12**	**3.9**	**3.8**
Nitrate (as N)		**1.6 J**	**1.2 J**	**0.79 J**	2.3 J
Nitrite (as N)		0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Sulfate		**11**	**18**	**6.2**	**7.2**
Total Organic Carbon		2.8	**10**	**19**	**8.8**
Orthophosphate (as P)		R	R	R	R
Dissolved Metals (mg/L)					
Manganese		R	R	R	R
Arsenic	0.005	R	R	R	R
Volatile Organic Compounds (ug/L) [Only compounds detected in groundwater or surface water are shown.]					
1,2-Dichloroethene, Total		2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene		1 U	1 U	1 U	1 U
Diethyl Ether		1 U	1 U	1 U	1 U
Vinyl Chloride	0.025	0.02 U	0.02 U	0.02 U	0.02 U

Notes

Bold - detected
U - Not detected at or above reporting limit
J or UJ - Estimated "usable"
R - Rejected data, not representative of site conditions

"mg/L" - milligram per liter
"ug/L" - microgram per liter
"mV" - millivolts
" uS" - microSiemens
"degrees C" - degrees Celcius
"NTU" - Nephthalometric Turbidity Units



Exploration Name → MW-13D
Water Elevation (ft) → 249.6

- Monitoring Well
- Gas Detection Probe
- Surface Water Station
- Inferred Water Elevation Contour (ft) *Measured Jan 2017*
- General Groundwater Flow Direction
- Compliance Monitoring Location
- Approximate Area of Groundwater Discharge from Upper Aquifer
- Landfill Boundary
- Tax Parcel

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

Compliance Monitoring Locations

First Quarter 2017 Environmental Monitoring Report
Hansville Landfill
Kitsap County, Washington

Aspect Consulting	APR-2017	BY: AHP / RAP	FIGURE NO. B-1
	PROJECT NO. 160423	REVISED BY: ---	

GIS Path: T:\projects_8\Hansville\Landfill_160423\Delivered\Environmental Monitoring Report 2017 Q1\Compliance Monitoring Locations.mxd || Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet || Date Saved: 4/28/2017 || User: rpgpin || Print Date: 4/28/2017

ATTACHMENT C

Groundwater Statistics and Time Series Plots

Table C-1. Statistical Analysis

Project 060423, Hansville Landfill, Hansville, WA

Dissolved Arsenic Statistical Results

Well	Statistical Trend[1]	Mann-Kendall Test[2]				Sen's Slope	
		Test Value, S	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	--	--	--	--	--		--
MW-14	Decreasing	-478	-170	40	Yes	-3.7E-06	-0.0014

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	-4.4	-1.96	41	Yes	-6.3E-05	-0.023
MW-7	--	--	--	--	--		--
MW-12I	Decreasing	-5.5	-1.96	41	Yes	-1.2E-04	-0.044
MW-13D	--	--	--	--	--		--
MW-14	Decreasing	-6.7	-1.96	41	Yes	-1.1E-04	-0.040

Notes

1 - The Statistical Trend indicates:

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

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

"Decreasing" if 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.

For N<=40, Mann-Kendall scores are reported as Test Value S.

3 - "--" Indicates most recent groundwater concentrations were below the Site-specific cleanup level.

"ug/L" - micrograms per liter

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-5	Arsenic	7440-38-2	mg/L	1/23/2007	n/a		0.00214
MW-5	Arsenic	7440-38-2	mg/L	4/19/2007	n/a		0.00192
MW-5	Arsenic	7440-38-2	mg/L	7/18/2007	n/a		0.00209
MW-5	Arsenic	7440-38-2	mg/L	10/23/2007	n/a		0.00215
MW-5	Arsenic	7440-38-2	mg/L	1/16/2008	n/a		0.00204
MW-5	Arsenic	7440-38-2	mg/L	4/16/2008	n/a		0.00221
MW-5	Arsenic	7440-38-2	mg/L	7/16/2008	n/a		0.00203
MW-5	Arsenic	7440-38-2	mg/L	10/22/2008	n/a		0.00227
MW-5	Arsenic	7440-38-2	mg/L	1/20/2009	n/a		0.00207
MW-5	Arsenic	7440-38-2	mg/L	4/14/2009	n/a		0.00216
MW-5	Arsenic	7440-38-2	mg/L	7/14/2009	0.0005	ND	
MW-5	Arsenic	7440-38-2	mg/L	10/29/2009	n/a		0.0032
MW-5	Arsenic	7440-38-2	mg/L	1/27/2010	0.001	ND	
MW-5	Arsenic	7440-38-2	mg/L	4/29/2010	n/a		0.0025
MW-5	Arsenic	7440-38-2	mg/L	7/27/2010	0.0002	ND	
MW-5	Arsenic	7440-38-2	mg/L	10/26/2010	0.0002	ND	
MW-5	Arsenic	7440-38-2	mg/L	1/25/2011	n/a		0.002
MW-5	Arsenic	7440-38-2	mg/L	4/14/2011	n/a		0.0004
MW-5	Arsenic	7440-38-2	mg/L	7/25/2011	n/a		0.0018
MW-5	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.002
MW-5	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.0019
MW-5	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.00192
MW-5	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.0021
MW-5	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00177
MW-5	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.00207
MW-5	Arsenic	7440-38-2	mg/L	4/4/2013	4.00E-05		0.00185
MW-5	Arsenic	7440-38-2	mg/L	7/24/2013	4.00E-05		0.0018
MW-5	Arsenic	7440-38-2	mg/L	10/3/2013	0.0002		0.0021
MW-5	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00163
MW-5	Arsenic	7440-38-2	mg/L	4/17/2014	n/a		0.00165
MW-5	Arsenic	7440-38-2	mg/L	7/29/2014	4.00E-05		0.00176
MW-5	Arsenic	7440-38-2	mg/L	10/8/2014	8.00E-05		0.00194
MW-5	Arsenic	7440-38-2	mg/L	1/22/2015	4.00E-05		0.0019
MW-5	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.00166
MW-5	Arsenic	7440-38-2	mg/L	7/9/2015	4.00E-05		0.0016
MW-5	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0017
MW-5	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0018
MW-5	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0016
MW-5	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.00168
MW-5	Arsenic	7440-38-2	mg/L	10/20/2016	4.00E-05		0.00167
MW-5	Vinyl Chloride	75-01-4	ug/L	1/23/2007	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/19/2007	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/18/2007	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/23/2007	0.01	ND	

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-5	Vinyl Chloride	75-01-4	ug/L	1/16/2008	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/16/2008	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/16/2008	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/22/2008	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/20/2009	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/14/2009	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/14/2009	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/29/2009	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/27/2010	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/29/2010	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/27/2010	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/26/2010	0.01	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/25/2011	0.004	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/14/2011	0.004	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/25/2011	0.004	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/24/2013	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/29/2014	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/9/2014	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/22/2015	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/9/2015	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02	ND	
MW-5	Vinyl Chloride	75-01-4	ug/L	1/25/2017	0.02	ND	
MW-6	Arsenic	7440-38-2	mg/L	1/23/2007	n/a		0.00535
MW-6	Arsenic	7440-38-2	mg/L	4/19/2007	n/a		0.00534
MW-6	Arsenic	7440-38-2	mg/L	7/18/2007	n/a		0.00526
MW-6	Arsenic	7440-38-2	mg/L	10/23/2007	n/a		0.00464
MW-6	Arsenic	7440-38-2	mg/L	1/16/2008	n/a		0.00401
MW-6	Arsenic	7440-38-2	mg/L	4/16/2008	n/a		0.00465
MW-6	Arsenic	7440-38-2	mg/L	7/16/2008	n/a		0.00427

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-6	Arsenic	7440-38-2	mg/L	10/22/2008	n/a		0.00464
MW-6	Arsenic	7440-38-2	mg/L	1/20/2009	n/a		0.00437
MW-6	Arsenic	7440-38-2	mg/L	4/14/2009	n/a		0.00434
MW-6	Arsenic	7440-38-2	mg/L	7/14/2009	n/a		0.0017
MW-6	Arsenic	7440-38-2	mg/L	10/29/2009	n/a		0.0058
MW-6	Arsenic	7440-38-2	mg/L	1/27/2010	0.001	ND	
MW-6	Arsenic	7440-38-2	mg/L	4/29/2010	n/a		0.0048
MW-6	Arsenic	7440-38-2	mg/L	7/27/2010	n/a		0.0028
MW-6	Arsenic	7440-38-2	mg/L	10/26/2010	0.002	ND	
MW-6	Arsenic	7440-38-2	mg/L	1/25/2011	n/a		0.0049
MW-6	Arsenic	7440-38-2	mg/L	4/14/2011	n/a		0.0013
MW-6	Arsenic	7440-38-2	mg/L	7/25/2011	n/a		0.0027
MW-6	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0032
MW-6	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00319
MW-6	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.00162
MW-6	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.0036
MW-6	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.0033
MW-6	Arsenic	7440-38-2	mg/L	1/3/2013	0.0002		0.0035
MW-6	Arsenic	7440-38-2	mg/L	4/4/2013	0.0002		0.0033
MW-6	Arsenic	7440-38-2	mg/L	7/24/2013	4.00E-05		0.00259
MW-6	Arsenic	7440-38-2	mg/L	10/3/2013	0.0001		0.0023
MW-6	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00259
MW-6	Arsenic	7440-38-2	mg/L	4/17/2014	n/a		0.00213
MW-6	Arsenic	7440-38-2	mg/L	7/29/2014	0.0001		0.0021
MW-6	Arsenic	7440-38-2	mg/L	10/8/2014	8.00E-05		0.00181
MW-6	Arsenic	7440-38-2	mg/L	1/22/2015	4.00E-05		0.00178
MW-6	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.00173
MW-6	Arsenic	7440-38-2	mg/L	7/9/2015	4.00E-05		0.00164
MW-6	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0016
MW-6	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0018
MW-6	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0017
MW-6	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.00152
MW-6	Arsenic	7440-38-2	mg/L	10/20/2016	0.0002		0.00156
MW-6	Vinyl Chloride	75-01-4	ug/L	1/23/2007	n/a		0.316
MW-6	Vinyl Chloride	75-01-4	ug/L	4/19/2007	n/a		0.45
MW-6	Vinyl Chloride	75-01-4	ug/L	7/18/2007	n/a		0.502
MW-6	Vinyl Chloride	75-01-4	ug/L	10/23/2007	n/a		0.38
MW-6	Vinyl Chloride	75-01-4	ug/L	1/16/2008	n/a		0.38
MW-6	Vinyl Chloride	75-01-4	ug/L	4/16/2008	n/a		0.31
MW-6	Vinyl Chloride	75-01-4	ug/L	7/16/2008	n/a		0.29
MW-6	Vinyl Chloride	75-01-4	ug/L	10/22/2008	n/a		0.35
MW-6	Vinyl Chloride	75-01-4	ug/L	1/20/2009	n/a		0.34
MW-6	Vinyl Chloride	75-01-4	ug/L	4/14/2009	n/a		0.41
MW-6	Vinyl Chloride	75-01-4	ug/L	7/14/2009	n/a		0.36

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-6	Vinyl Chloride	75-01-4	ug/L	10/29/2009	n/a		0.35
MW-6	Vinyl Chloride	75-01-4	ug/L	1/27/2010	n/a		0.24
MW-6	Vinyl Chloride	75-01-4	ug/L	4/29/2010	n/a		0.22
MW-6	Vinyl Chloride	75-01-4	ug/L	7/27/2010	n/a		0.27
MW-6	Vinyl Chloride	75-01-4	ug/L	10/26/2010	n/a		0.39
MW-6	Vinyl Chloride	75-01-4	ug/L	1/25/2011	n/a		0.24
MW-6	Vinyl Chloride	75-01-4	ug/L	4/14/2011	n/a		0.21
MW-6	Vinyl Chloride	75-01-4	ug/L	7/25/2011	n/a		0.12
MW-6	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	J	0.19
MW-6	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02		0.35
MW-6	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02		0.18
MW-6	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02		0.22
MW-6	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02		0.43
MW-6	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02		0.23
MW-6	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02		0.17
MW-6	Vinyl Chloride	75-01-4	ug/L	7/24/2013	0.02		0.28
MW-6	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02		0.34
MW-6	Vinyl Chloride	75-01-4	ug/L	1/16/2014	4.00E-05		0.51
MW-6	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02		0.22
MW-6	Vinyl Chloride	75-01-4	ug/L	7/29/2014	0.02		0.35
MW-6	Vinyl Chloride	75-01-4	ug/L	10/9/2014	0.02		0.19
MW-6	Vinyl Chloride	75-01-4	ug/L	1/22/2015	0.02		0.23
MW-6	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02		0.2
MW-6	Vinyl Chloride	75-01-4	ug/L	7/9/2015	0.02		0.27
MW-6	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02		0.14
MW-6	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02		0.17
MW-6	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02		0.098
MW-6	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02		0.12
MW-6	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02		0.12
MW-6	Vinyl Chloride	75-01-4	ug/L	1/25/2017	0.02		0.16
MW-7	Arsenic	7440-38-2	mg/L	1/23/2007	n/a		0.00125
MW-7	Arsenic	7440-38-2	mg/L	4/19/2007	n/a		0.00103
MW-7	Arsenic	7440-38-2	mg/L	7/18/2007	n/a		0.00103
MW-7	Arsenic	7440-38-2	mg/L	10/23/2007	n/a		0.00117
MW-7	Arsenic	7440-38-2	mg/L	1/16/2008	n/a		0.00122
MW-7	Arsenic	7440-38-2	mg/L	4/16/2008	n/a		0.00107
MW-7	Arsenic	7440-38-2	mg/L	7/16/2008	n/a		0.00109
MW-7	Arsenic	7440-38-2	mg/L	10/22/2008	n/a		0.00127
MW-7	Arsenic	7440-38-2	mg/L	1/20/2009	n/a		0.00128
MW-7	Arsenic	7440-38-2	mg/L	4/14/2009	n/a		0.00124
MW-7	Arsenic	7440-38-2	mg/L	7/14/2009	0.0005	ND	
MW-7	Arsenic	7440-38-2	mg/L	10/29/2009	n/a		0.025
MW-7	Arsenic	7440-38-2	mg/L	1/27/2010	0.001	ND	
MW-7	Arsenic	7440-38-2	mg/L	4/29/2010	n/a		0.0019

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-7	Arsenic	7440-38-2	mg/L	7/27/2010	0.0002	ND	
MW-7	Arsenic	7440-38-2	mg/L	10/26/2010	0.0002	ND	
MW-7	Arsenic	7440-38-2	mg/L	1/25/2011	n/a		0.00059
MW-7	Arsenic	7440-38-2	mg/L	4/14/2011	n/a		0.004
MW-7	Arsenic	7440-38-2	mg/L	7/25/2011	n/a		0.00106
MW-7	Arsenic	7440-38-2	mg/L	10/4/2011	4.00E-05		0.00107
MW-7	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00106
MW-7	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.00112
MW-7	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.00112
MW-7	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00105
MW-7	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.00114
MW-7	Arsenic	7440-38-2	mg/L	4/4/2013	4.00E-05		0.00104
MW-7	Arsenic	7440-38-2	mg/L	7/24/2013	4.00E-05		0.00096
MW-7	Arsenic	7440-38-2	mg/L	10/3/2013	4.00E-05		0.00094
MW-7	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00093
MW-7	Arsenic	7440-38-2	mg/L	4/17/2014	n/a		0.00089
MW-7	Arsenic	7440-38-2	mg/L	7/29/2014	4.00E-05		0.00095
MW-7	Arsenic	7440-38-2	mg/L	10/8/2014	8.00E-05		0.00106
MW-7	Arsenic	7440-38-2	mg/L	1/22/2015	4.00E-05		0.00098
MW-7	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.00088
MW-7	Arsenic	7440-38-2	mg/L	7/9/2015	4.00E-05		0.00087
MW-7	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.001
MW-7	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.001
MW-7	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0009
MW-7	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.0009
MW-7	Arsenic	7440-38-2	mg/L	10/20/2016	4.00E-05		0.000883
MW-7	Vinyl Chloride	75-01-4	ug/L	1/23/2007	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/19/2007	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/18/2007	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/23/2007	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/16/2008	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/16/2008	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/16/2008	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/22/2008	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/20/2009	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/14/2009	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/14/2009	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/29/2009	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/27/2010	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/29/2010	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/27/2010	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/26/2010	0.01	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/25/2011	0.004	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/14/2011	0.004	ND	

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-7	Vinyl Chloride	75-01-4	ug/L	7/25/2011	0.004	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/24/2013	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/29/2014	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/9/2014	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/22/2015	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/9/2015	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02	ND	
MW-7	Vinyl Chloride	75-01-4	ug/L	1/25/2017	0.02	ND	
MW-12I	Arsenic	7440-38-2	mg/L	1/23/2007	n/a		0.00188
MW-12I	Arsenic	7440-38-2	mg/L	4/19/2007	n/a		0.00164
MW-12I	Arsenic	7440-38-2	mg/L	7/18/2007	n/a		0.00167
MW-12I	Arsenic	7440-38-2	mg/L	10/23/2007	n/a		0.0018
MW-12I	Arsenic	7440-38-2	mg/L	1/16/2008	n/a		0.00159
MW-12I	Arsenic	7440-38-2	mg/L	4/16/2008	n/a		0.00167
MW-12I	Arsenic	7440-38-2	mg/L	7/16/2008	n/a		0.00169
MW-12I	Arsenic	7440-38-2	mg/L	10/22/2008	n/a		0.00217
MW-12I	Arsenic	7440-38-2	mg/L	1/20/2009	n/a		0.00172
MW-12I	Arsenic	7440-38-2	mg/L	4/14/2009	n/a		0.00192
MW-12I	Arsenic	7440-38-2	mg/L	7/14/2009	n/a		0.001
MW-12I	Arsenic	7440-38-2	mg/L	10/29/2009	n/a		0.0029
MW-12I	Arsenic	7440-38-2	mg/L	1/27/2010	0.001	ND	
MW-12I	Arsenic	7440-38-2	mg/L	4/29/2010	n/a		0.0028
MW-12I	Arsenic	7440-38-2	mg/L	7/27/2010	n/a		0.00049
MW-12I	Arsenic	7440-38-2	mg/L	10/26/2010	0.0002	ND	
MW-12I	Arsenic	7440-38-2	mg/L	1/25/2011	n/a		0.0019
MW-12I	Arsenic	7440-38-2	mg/L	4/14/2011	n/a		0.004
MW-12I	Arsenic	7440-38-2	mg/L	7/25/2011	n/a		0.0018
MW-12I	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0022
MW-12I	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00222

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-12I	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.0021
MW-12I	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.0025
MW-12I	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00205
MW-12I	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.00212
MW-12I	Arsenic	7440-38-2	mg/L	4/4/2013	4.00E-05		0.00192
MW-12I	Arsenic	7440-38-2	mg/L	7/24/2013	4.00E-05		0.00191
MW-12I	Arsenic	7440-38-2	mg/L	10/3/2013	0.0002		0.0022
MW-12I	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00201
MW-12I	Arsenic	7440-38-2	mg/L	4/17/2014	n/a		0.00205
MW-12I	Arsenic	7440-38-2	mg/L	7/29/2014	4.00E-05		0.00219
MW-12I	Arsenic	7440-38-2	mg/L	10/8/2014	4.00E-05		0.00229
MW-12I	Arsenic	7440-38-2	mg/L	1/21/2015	4.00E-05		0.00236
MW-12I	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.00227
MW-12I	Arsenic	7440-38-2	mg/L	7/9/2015	4.00E-05		0.00216
MW-12I	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0022
MW-12I	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0024
MW-12I	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0021
MW-12I	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.00221
MW-12I	Arsenic	7440-38-2	mg/L	10/20/2016	4.00E-05		0.00226
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/23/2007	n/a		0.485
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/19/2007	n/a		0.531
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/18/2007	n/a		0.771
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/23/2007	n/a		0.814
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/16/2008	n/a		0.42
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/16/2008	n/a		0.37
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/16/2008	n/a		0.42
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/22/2008	n/a		0.58
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/20/2009	n/a		0.38
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/14/2009	n/a		0.42
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/14/2009	n/a		0.45
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/29/2009	n/a		0.68
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/27/2010	n/a		0.29
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/29/2010	n/a		0.26
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/27/2010	n/a		0.4
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/26/2010	n/a		0.5
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/25/2011	n/a		0.21
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/14/2011	n/a		0.16
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/25/2011	n/a		0.2
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	J	0.24
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02		0.19
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02		0.13
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02		0.15
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02		0.34
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02		0.11

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02		0.16
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/24/2013	0.02		0.16
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02		0.23
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02		0.22
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02		0.089
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/29/2014	0.02		0.28
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/8/2014	0.02		0.23
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/21/2015	0.02		0.094
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02		0.083
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/9/2015	0.02		0.19
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02		0.39
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02		0.13
MW-12I	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02		0.11
MW-12I	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02		0.11
MW-12I	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02		0.13
MW-12I	Vinyl Chloride	75-01-4	ug/L	1/25/2017	0.02		0.06
MW-13D	Arsenic	7440-38-2	mg/L	1/23/2007	n/a		0.00295
MW-13D	Arsenic	7440-38-2	mg/L	4/19/2007	n/a		0.00289
MW-13D	Arsenic	7440-38-2	mg/L	7/18/2007	n/a		0.00285
MW-13D	Arsenic	7440-38-2	mg/L	10/23/2007	n/a		0.00303
MW-13D	Arsenic	7440-38-2	mg/L	1/16/2008	n/a		0.0029
MW-13D	Arsenic	7440-38-2	mg/L	4/16/2008	n/a		0.0032
MW-13D	Arsenic	7440-38-2	mg/L	7/16/2008	n/a		0.00299
MW-13D	Arsenic	7440-38-2	mg/L	10/22/2008	n/a		0.00342
MW-13D	Arsenic	7440-38-2	mg/L	1/20/2009	n/a		0.0031
MW-13D	Arsenic	7440-38-2	mg/L	4/14/2009	n/a		0.00333
MW-13D	Arsenic	7440-38-2	mg/L	7/14/2009	n/a		0.0042
MW-13D	Arsenic	7440-38-2	mg/L	10/29/2009	n/a		0.0037
MW-13D	Arsenic	7440-38-2	mg/L	1/27/2010	0.001	ND	
MW-13D	Arsenic	7440-38-2	mg/L	4/29/2010	n/a		0.0039
MW-13D	Arsenic	7440-38-2	mg/L	7/27/2010	n/a		0.0013
MW-13D	Arsenic	7440-38-2	mg/L	10/26/2010	n/a		0.0014
MW-13D	Arsenic	7440-38-2	mg/L	1/25/2011	n/a		0.0031
MW-13D	Arsenic	7440-38-2	mg/L	4/14/2011	n/a		0.0011
MW-13D	Arsenic	7440-38-2	mg/L	7/25/2011	n/a		0.003
MW-13D	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0032
MW-13D	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00293
MW-13D	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.00307
MW-13D	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.0034
MW-13D	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00316
MW-13D	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.0034
MW-13D	Arsenic	7440-38-2	mg/L	4/4/2013	4.00E-05		0.00342
MW-13D	Arsenic	7440-38-2	mg/L	7/24/2013	4.00E-05		0.0033
MW-13D	Arsenic	7440-38-2	mg/L	10/3/2013	4.00E-05		0.00301

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-13D	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00308
MW-13D	Arsenic	7440-38-2	mg/L	4/17/2014	n/a		0.00301
MW-13D	Arsenic	7440-38-2	mg/L	7/29/2014	4.00E-05		0.00353
MW-13D	Arsenic	7440-38-2	mg/L	10/8/2014	4.00E-05		0.00346
MW-13D	Arsenic	7440-38-2	mg/L	1/21/2015	4.00E-05		0.00353
MW-13D	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.00331
MW-13D	Arsenic	7440-38-2	mg/L	7/9/2015	4.00E-05		0.00327
MW-13D	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0038
MW-13D	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0037
MW-13D	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0035
MW-13D	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.00361
MW-13D	Arsenic	7440-38-2	mg/L	10/20/2016	4.00E-05		0.004
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/23/2007	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/19/2007	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/18/2007	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/23/2007	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/16/2008	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/16/2008	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/16/2008	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/22/2008	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/20/2009	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/14/2009	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/14/2009	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/29/2009	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/27/2010	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/29/2010	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/27/2010	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/26/2010	0.01	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/25/2011	0.004	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/14/2011	0.004	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/25/2011	n/a		0.0082
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02	J	0.016
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02	J	0.0049
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/24/2013	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/29/2014	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/8/2014	0.02	ND	

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/21/2015	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/9/2015	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02	ND	
MW-13D	Vinyl Chloride	75-01-4	ug/L	1/26/2017	0.02	ND	
MW-14	Arsenic	7440-38-2	mg/L	1/23/2007	n/a		0.0278
MW-14	Arsenic	7440-38-2	mg/L	4/19/2007	n/a		0.027
MW-14	Arsenic	7440-38-2	mg/L	7/18/2007	n/a		0.0281
MW-14	Arsenic	7440-38-2	mg/L	10/23/2007	n/a		0.0275
MW-14	Arsenic	7440-38-2	mg/L	1/16/2008	n/a		0.0226
MW-14	Arsenic	7440-38-2	mg/L	4/16/2008	n/a		0.0266
MW-14	Arsenic	7440-38-2	mg/L	7/16/2008	n/a		0.0233
MW-14	Arsenic	7440-38-2	mg/L	10/22/2008	n/a		0.03
MW-14	Arsenic	7440-38-2	mg/L	1/20/2009	n/a		0.025
MW-14	Arsenic	7440-38-2	mg/L	4/14/2009	n/a		0.0245
MW-14	Arsenic	7440-38-2	mg/L	7/14/2009	n/a		0.025
MW-14	Arsenic	7440-38-2	mg/L	10/29/2009	n/a		0.0049
MW-14	Arsenic	7440-38-2	mg/L	1/27/2010	n/a		0.02
MW-14	Arsenic	7440-38-2	mg/L	4/29/2010	n/a		0.023
MW-14	Arsenic	7440-38-2	mg/L	7/27/2010	n/a		0.033
MW-14	Arsenic	7440-38-2	mg/L	10/26/2010	n/a		0.023
MW-14	Arsenic	7440-38-2	mg/L	1/25/2011	n/a		0.026
MW-14	Arsenic	7440-38-2	mg/L	4/14/2011	n/a		0.022
MW-14	Arsenic	7440-38-2	mg/L	7/25/2011	n/a		0.0205
MW-14	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0226
MW-14	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.0194
MW-14	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.00788
MW-14	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.0216
MW-14	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.0212
MW-14	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.0202
MW-14	Arsenic	7440-38-2	mg/L	4/4/2013	0.0004		0.0213
MW-14	Arsenic	7440-38-2	mg/L	7/24/2013	4.00E-05		0.0184
MW-14	Arsenic	7440-38-2	mg/L	10/3/2013	4.00E-05		0.0158
MW-14	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.0151
MW-14	Arsenic	7440-38-2	mg/L	4/17/2014	n/a		0.0156
MW-14	Arsenic	7440-38-2	mg/L	7/29/2014	4.00E-05		0.016
MW-14	Arsenic	7440-38-2	mg/L	10/8/2014	0.0002		0.0246
MW-14	Arsenic	7440-38-2	mg/L	1/22/2015	4.00E-05		0.0177
MW-14	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.0157
MW-14	Arsenic	7440-38-2	mg/L	7/9/2015	4.00E-05		0.0175

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-14	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0146
MW-14	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0158
MW-14	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0153
MW-14	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.015
MW-14	Arsenic	7440-38-2	mg/L	10/20/2016	4.00E-05		0.0144
MW-14	Vinyl Chloride	75-01-4	ug/L	1/23/2007	n/a		0.652
MW-14	Vinyl Chloride	75-01-4	ug/L	4/19/2007	n/a		0.77
MW-14	Vinyl Chloride	75-01-4	ug/L	7/18/2007	n/a		0.914
MW-14	Vinyl Chloride	75-01-4	ug/L	10/23/2007	n/a		0.639
MW-14	Vinyl Chloride	75-01-4	ug/L	1/16/2008	n/a		0.64
MW-14	Vinyl Chloride	75-01-4	ug/L	4/16/2008	n/a		0.81
MW-14	Vinyl Chloride	75-01-4	ug/L	7/16/2008	n/a		0.57
MW-14	Vinyl Chloride	75-01-4	ug/L	10/22/2008	n/a		0.4
MW-14	Vinyl Chloride	75-01-4	ug/L	1/20/2009	n/a		0.33
MW-14	Vinyl Chloride	75-01-4	ug/L	4/14/2009	n/a		0.34
MW-14	Vinyl Chloride	75-01-4	ug/L	7/14/2009	n/a		0.14
MW-14	Vinyl Chloride	75-01-4	ug/L	10/29/2009	n/a		0.34
MW-14	Vinyl Chloride	75-01-4	ug/L	1/27/2010	n/a		0.3
MW-14	Vinyl Chloride	75-01-4	ug/L	4/29/2010	n/a		0.27
MW-14	Vinyl Chloride	75-01-4	ug/L	7/27/2010	n/a		0.35
MW-14	Vinyl Chloride	75-01-4	ug/L	10/26/2010	n/a		0.38
MW-14	Vinyl Chloride	75-01-4	ug/L	1/25/2011	n/a		0.45
MW-14	Vinyl Chloride	75-01-4	ug/L	4/14/2011	n/a		0.32
MW-14	Vinyl Chloride	75-01-4	ug/L	7/25/2011	n/a		0.23
MW-14	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	J	0.27
MW-14	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02		0.28
MW-14	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02		0.35
MW-14	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02		0.24
MW-14	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02		0.27
MW-14	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02		0.25
MW-14	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02		0.25
MW-14	Vinyl Chloride	75-01-4	ug/L	7/24/2013	0.02		0.25
MW-14	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02		0.22
MW-14	Vinyl Chloride	75-01-4	ug/L	1/16/2014	4.00E-05		0.16
MW-14	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02		0.21
MW-14	Vinyl Chloride	75-01-4	ug/L	7/29/2014	0.02		0.16
MW-14	Vinyl Chloride	75-01-4	ug/L	10/9/2014	0.02		0.14
MW-14	Vinyl Chloride	75-01-4	ug/L	1/22/2015	0.02		0.19
MW-14	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02		0.21
MW-14	Vinyl Chloride	75-01-4	ug/L	7/9/2015	0.02		0.17
MW-14	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02		0.14
MW-14	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02		0.16
MW-14	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02		0.14
MW-14	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02		0.16

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
MW-14	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02		0.15
MW-14	Vinyl Chloride	75-01-4	ug/L	1/25/2017	0.02		0.14
SW-1	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0016
SW-1	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00144
SW-1	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.00148
SW-1	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.00155
SW-1	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00146
SW-1	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.00155
SW-1	Arsenic	7440-38-2	mg/L	4/4/2013	4.00E-05		0.00145
SW-1	Arsenic	7440-38-2	mg/L	7/11/2013	4.00E-05		0.0013
SW-1	Arsenic	7440-38-2	mg/L	10/3/2013	0.0002		0.0017
SW-1	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00131
SW-1	Arsenic	7440-38-2	mg/L	10/8/2014	8.00E-05		0.00094
SW-1	Arsenic	7440-38-2	mg/L	1/21/2015	4.00E-05		0.00143
SW-1	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.00079
SW-1	Arsenic	7440-38-2	mg/L	7/8/2015	4.00E-05		0.00082
SW-1	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0014
SW-1	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0014
SW-1	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0008
SW-1	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.00079
SW-1	Arsenic	7440-38-2	mg/L	10/20/2016	8.00E-05		0.00173
SW-1	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	7/11/2013	0.02		0.032
SW-1	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	10/8/2014	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	1/21/2015	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	7/8/2015	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02	ND	
SW-1	Vinyl Chloride	75-01-4	ug/L	1/26/2017	0.02	ND	
SW-4	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0019
SW-4	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00156

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
SW-4	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.00163
SW-4	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.00147
SW-4	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00176
SW-4	Arsenic	7440-38-2	mg/L	1/3/2013	8.00E-05		0.00176
SW-4	Arsenic	7440-38-2	mg/L	4/4/2013	0.0002		0.0018
SW-4	Arsenic	7440-38-2	mg/L	7/11/2013	4.00E-05		0.00157
SW-4	Arsenic	7440-38-2	mg/L	10/3/2013	0.0002		0.0026
SW-4	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00151
SW-4	Arsenic	7440-38-2	mg/L	10/8/2014	8.00E-05		0.00188
SW-4	Arsenic	7440-38-2	mg/L	1/21/2015	4.00E-05		0.00166
SW-4	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.00176
SW-4	Arsenic	7440-38-2	mg/L	7/8/2015	4.00E-05		0.00165
SW-4	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0018
SW-4	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0015
SW-4	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0015
SW-4	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.00162
SW-4	Arsenic	7440-38-2	mg/L	10/20/2016	0.0004		0.00254
SW-4	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02	J	0.004
SW-4	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02	J	0.0091
SW-4	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02	J	0.0089
SW-4	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02	J	0.0042
SW-4	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02	J	0.0092
SW-4	Vinyl Chloride	75-01-4	ug/L	7/11/2013	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	10/8/2014	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	1/21/2015	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	7/8/2015	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02	ND	
SW-4	Vinyl Chloride	75-01-4	ug/L	1/26/2017	0.02	ND	
SW-6	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0044
SW-6	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00134
SW-6	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.0032
SW-6	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.00319
SW-6	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00216
SW-6	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.00168

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
SW-6	Arsenic	7440-38-2	mg/L	4/4/2013	4.00E-05		0.00206
SW-6	Arsenic	7440-38-2	mg/L	7/11/2013	4.00E-05		0.0042
SW-6	Arsenic	7440-38-2	mg/L	10/3/2013	0.0002		0.0031
SW-6	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.00136
SW-6	Arsenic	7440-38-2	mg/L	10/8/2014	4.00E-05		0.00246
SW-6	Arsenic	7440-38-2	mg/L	1/21/2015	8.00E-05		0.00167
SW-6	Arsenic	7440-38-2	mg/L	4/16/2015	0.0002		0.0022
SW-6	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0034
SW-6	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0018
SW-6	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.0022
SW-6	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.00713
SW-6	Arsenic	7440-38-2	mg/L	10/20/2016	0.0004		0.00326
SW-6	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02	J	0.009
SW-6	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02	J	0.0046
SW-6	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	7/11/2013	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	10/8/2014	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	1/21/2015	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02	ND	
SW-6	Vinyl Chloride	75-01-4	ug/L	1/26/2017	0.02	ND	
SW-7	Arsenic	7440-38-2	mg/L	10/4/2011	0.0002		0.0018
SW-7	Arsenic	7440-38-2	mg/L	1/31/2012	8.00E-05		0.00092
SW-7	Arsenic	7440-38-2	mg/L	4/19/2012	8.00E-05		0.0011
SW-7	Arsenic	7440-38-2	mg/L	7/5/2012	0.0002		0.00144
SW-7	Arsenic	7440-38-2	mg/L	10/2/2012	4.00E-05		0.00141
SW-7	Arsenic	7440-38-2	mg/L	1/3/2013	4.00E-05		0.0008
SW-7	Arsenic	7440-38-2	mg/L	4/4/2013	4.00E-05		0.00119
SW-7	Arsenic	7440-38-2	mg/L	7/11/2013	4.00E-05		0.0014
SW-7	Arsenic	7440-38-2	mg/L	10/3/2013	0.0002		0.0016
SW-7	Arsenic	7440-38-2	mg/L	1/16/2014	4.00E-05		0.0009
SW-7	Arsenic	7440-38-2	mg/L	10/8/2014	4.00E-05		0.00176
SW-7	Arsenic	7440-38-2	mg/L	1/21/2015	4.00E-05		0.001

Table C-2. Statistical Dataset

Project 060423, Hansville Landfill, Hansville, WA

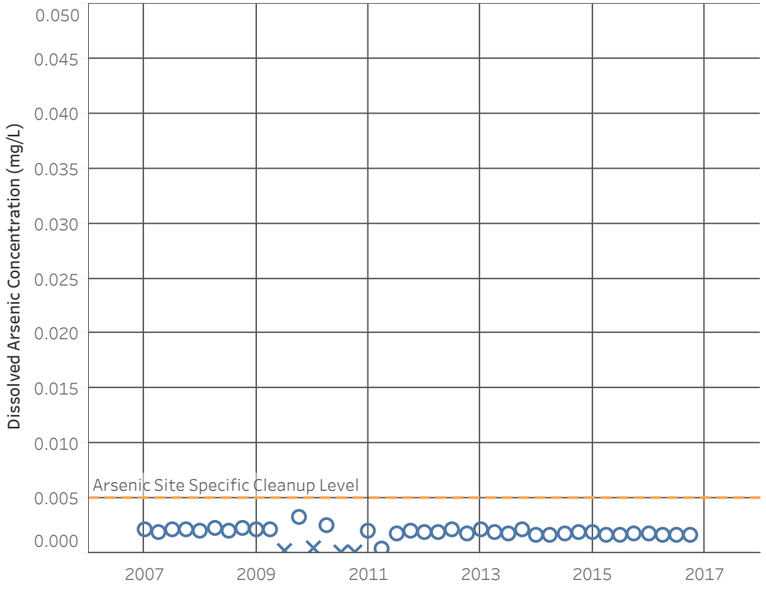
Location	Constituent	CAS	Units	Date	Reporting Limit	Flags	Result
SW-7	Arsenic	7440-38-2	mg/L	4/16/2015	4.00E-05		0.0011
SW-7	Arsenic	7440-38-2	mg/L	7/8/2015	4.00E-05		0.00184
SW-7	Arsenic	7440-38-2	mg/L	10/21/2015	0.0001		0.0019
SW-7	Arsenic	7440-38-2	mg/L	1/6/2016	0.0001		0.0011
SW-7	Arsenic	7440-38-2	mg/L	4/5/2016	0.0001		0.001
SW-7	Arsenic	7440-38-2	mg/L	7/12/2016	4.00E-05		0.0018
SW-7	Arsenic	7440-38-2	mg/L	10/20/2016	0.0004		0.00145
SW-7	Vinyl Chloride	75-01-4	ug/L	10/4/2011	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	1/31/2012	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	4/19/2012	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	7/5/2012	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	10/2/2012	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	1/3/2013	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	4/4/2013	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	7/11/2013	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	10/3/2013	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	1/16/2014	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	4/17/2014	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	10/8/2014	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	1/21/2015	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	4/16/2015	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	7/8/2015	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	10/21/2015	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	1/6/2016	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	4/5/2016	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	7/12/2016	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	10/20/2016	0.02	ND	
SW-7	Vinyl Chloride	75-01-4	ug/L	1/26/2017	0.02	ND	

Notes:

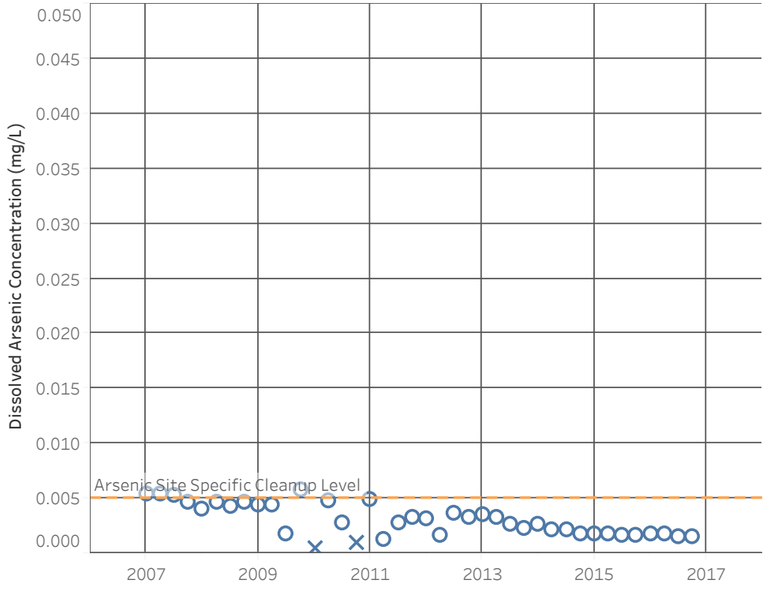
n/a = not applicable

ND = non detect

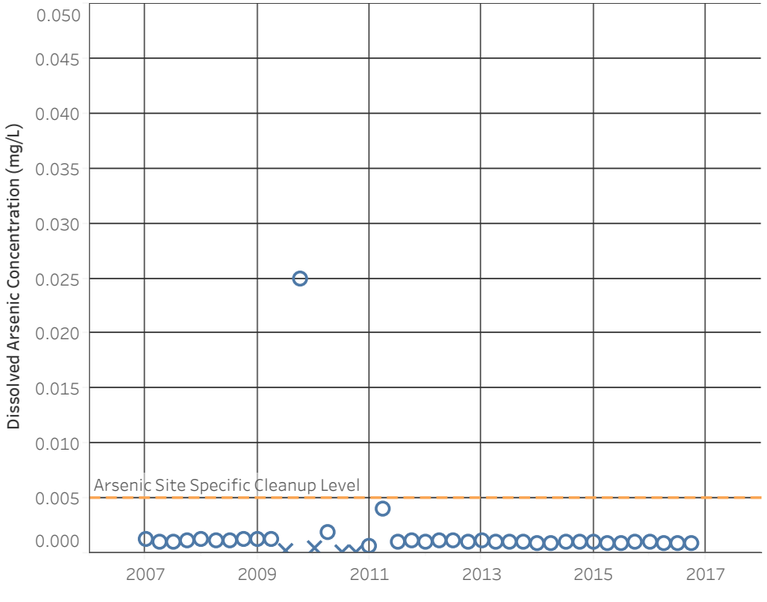
MW-5 (Background Well)



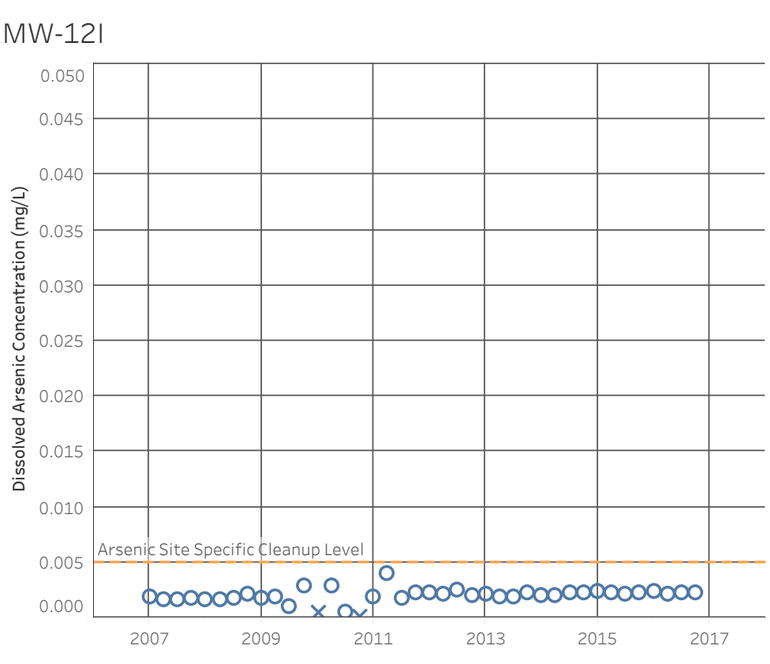
MW-6



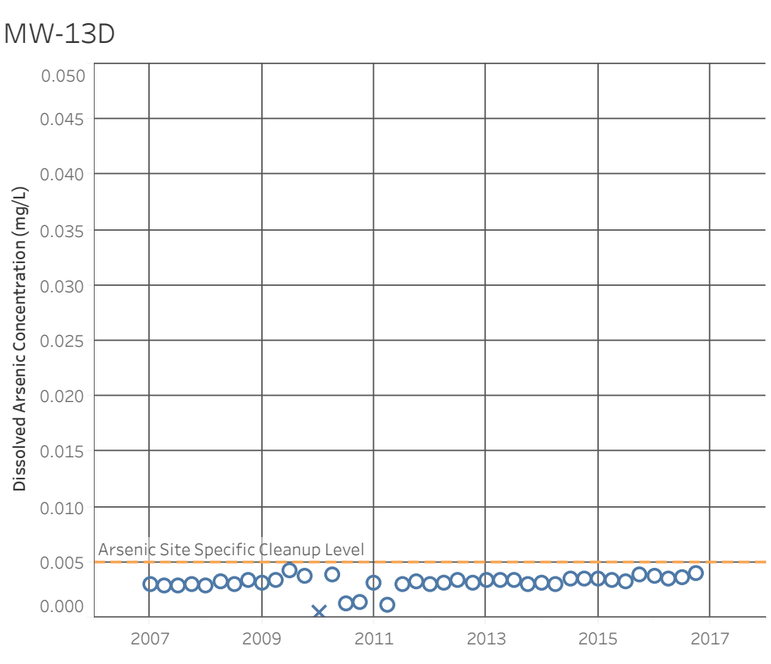
MW-7



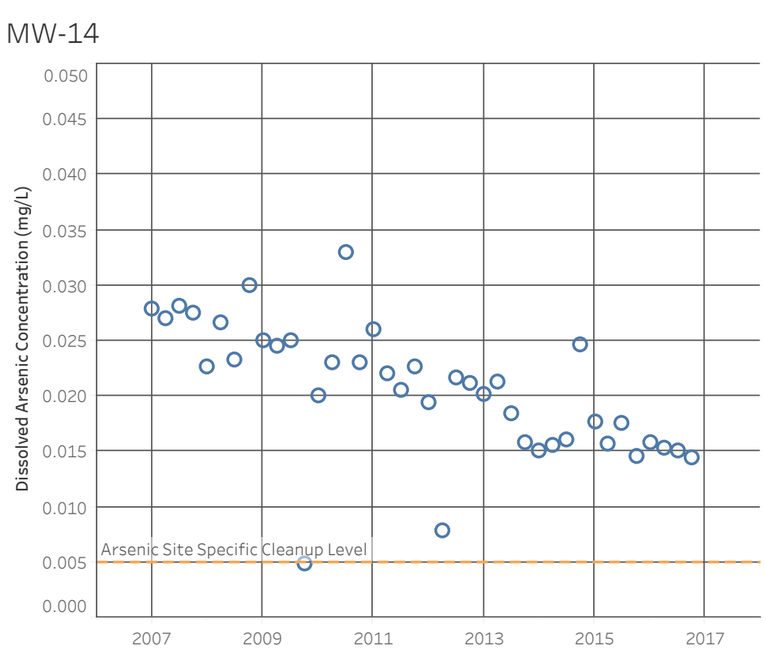
MW-12I



MW-13D



MW-14



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

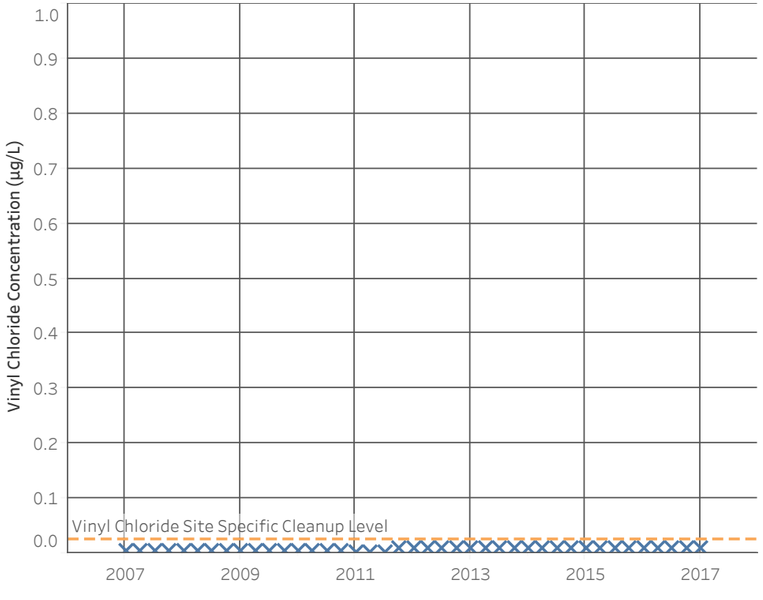
Result Flags
O Detected
✕ U - Non-Detect

Aspect CONSULTING

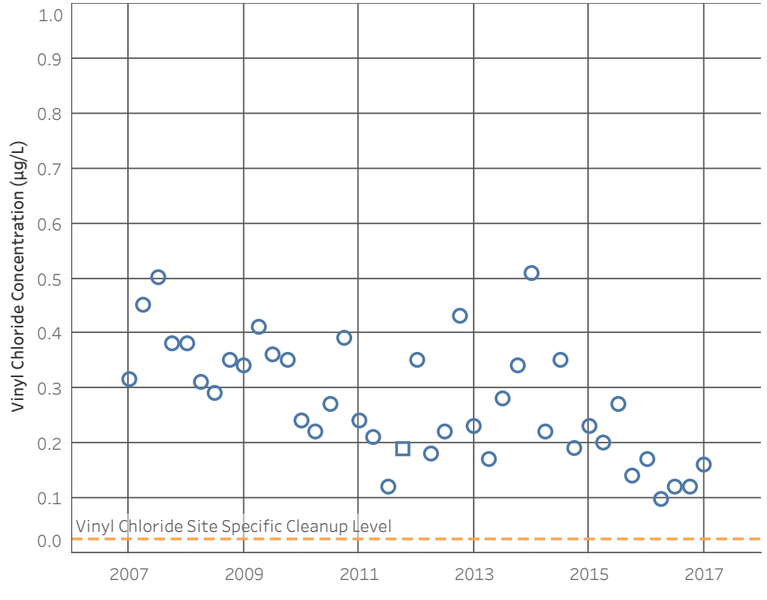
Aspect Consulting
04/27/2017
Trend Plots (As)

Figure C-1 - Dissolved Arsenic Sampling Results
First Quarter 2017 Environmental Monitoring Report
Hansville Landfill
Kitsap County, WA

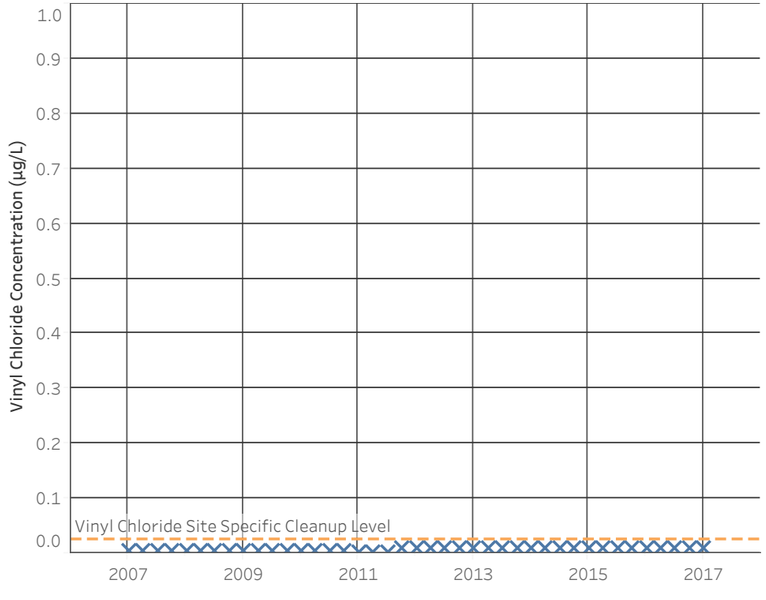
MW-5 (Background Well)



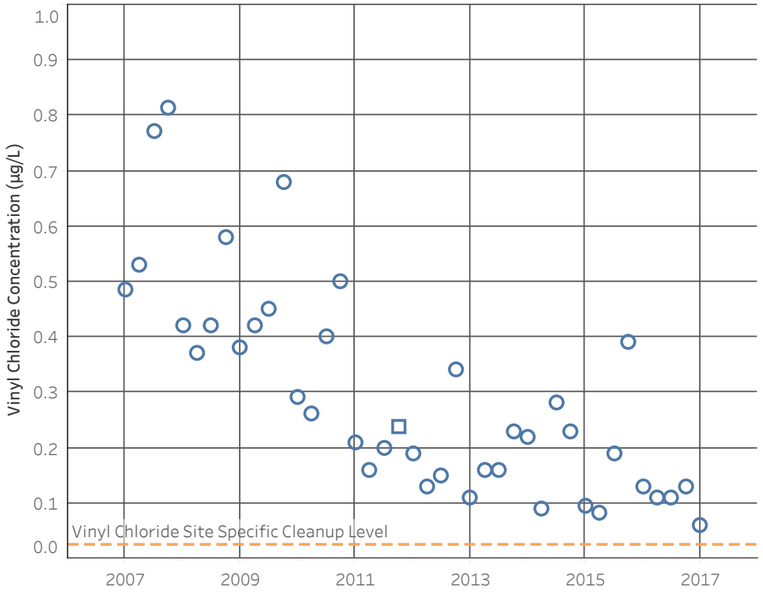
MW-6



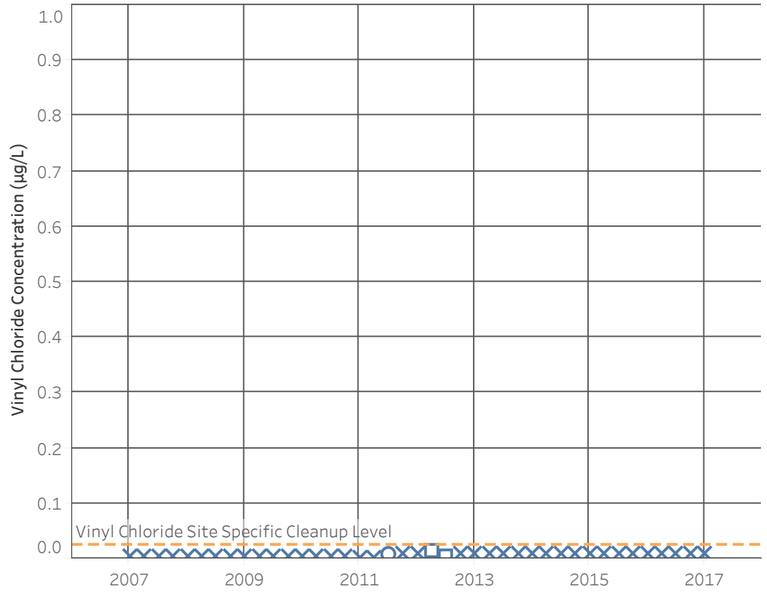
MW-7



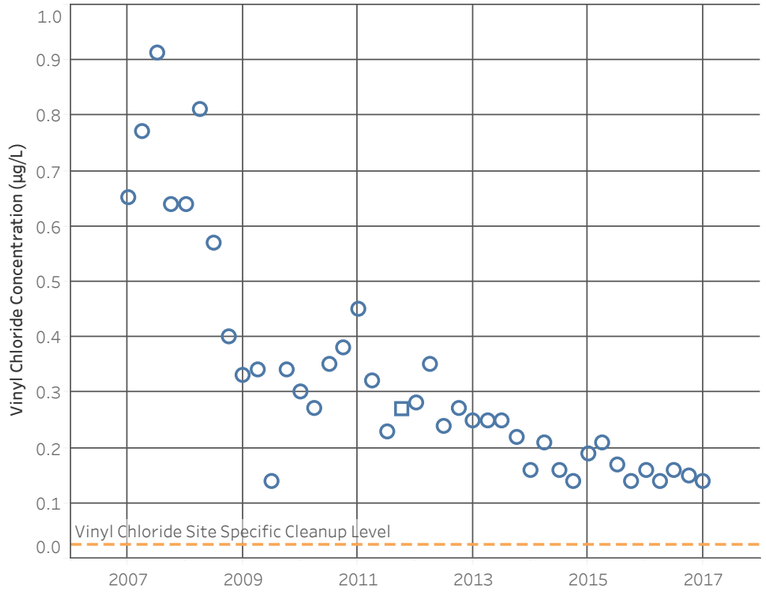
MW-12I



MW-13D



MW-14



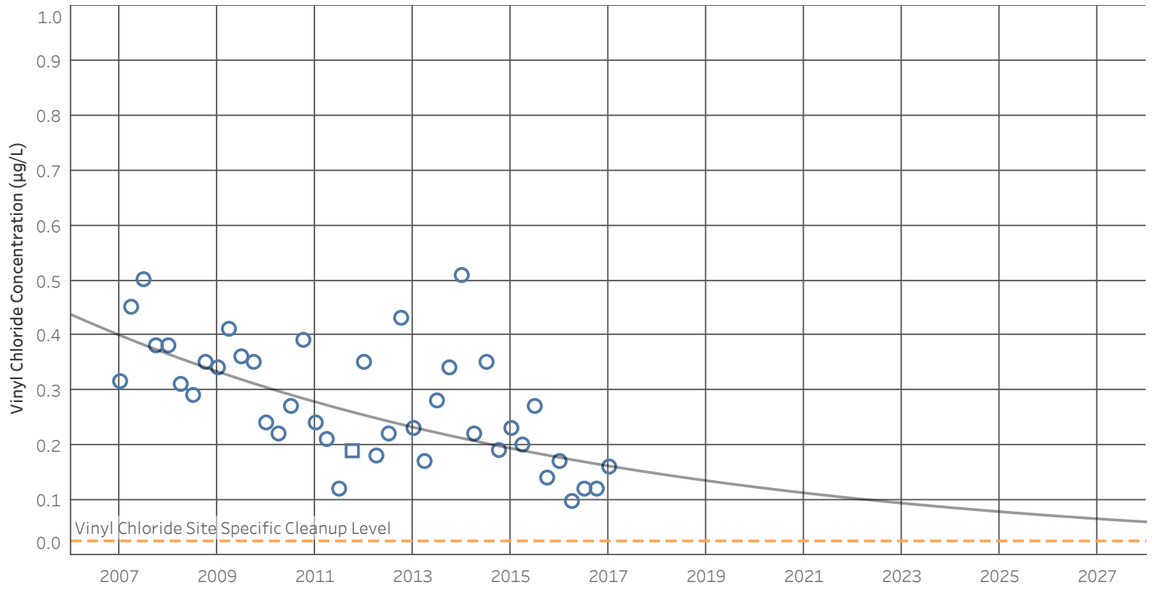
Result Flags
○ Detected □ J - Estimate ✕ U - Non-Detect

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

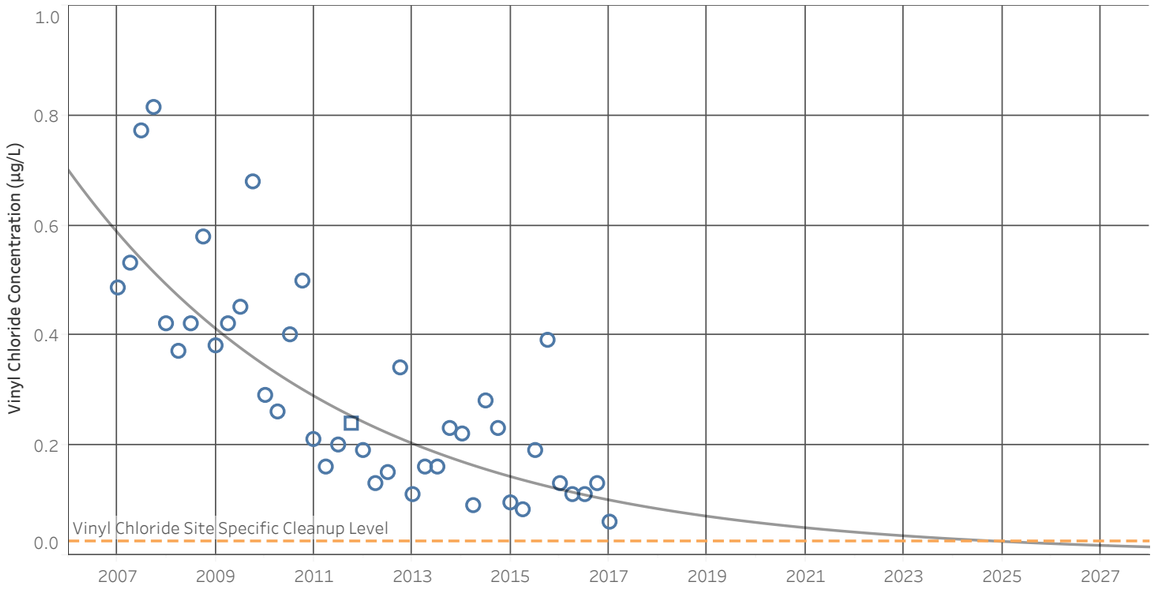
Aspect Consulting
04/27/2017
Trend Plots (VC)

Figure C-2 - Vinyl Chloride Sampling Results
First Quarter 2017 Environmental Monitoring Report
Hansville Landfill
Kitsap County, WA

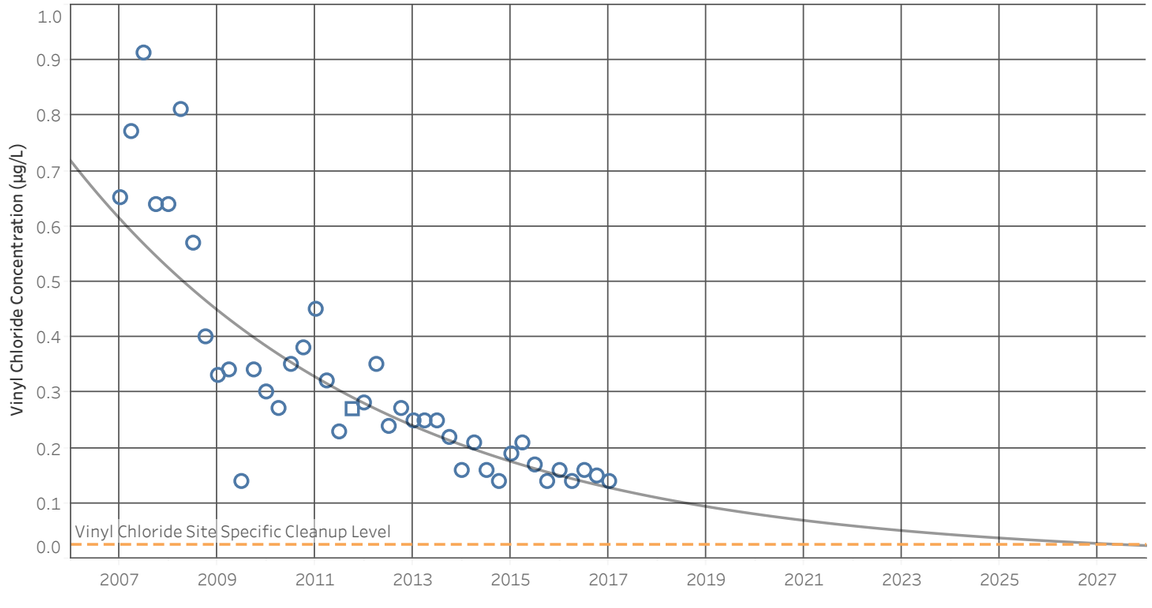
MW-6 Vinyl Chloride Trend



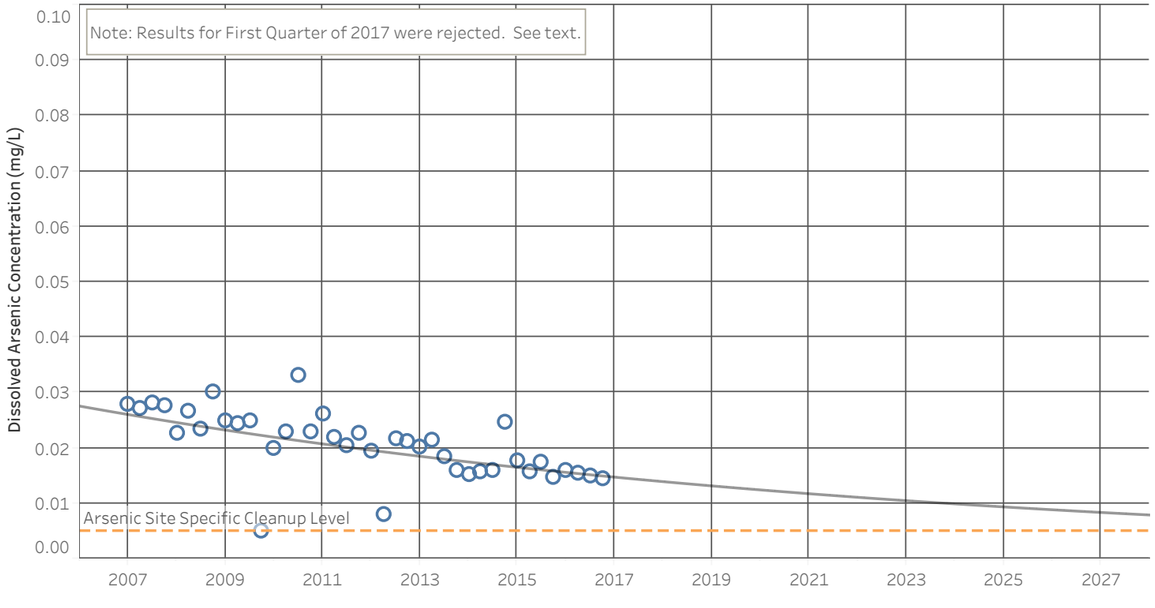
MW-12I Vinyl Chloride Trend



MW-14 Vinyl Chloride Trend



MW-14 Dissolved Arsenic Trend



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

Result Flags
O Detected □ J - Estimate ✕ U - Non-Detect

Aspect CONSULTING

Aspect Consulting
04/27/2017
Trend Plots (VC)

Figure C-3 - 10 Year Attenuation Curves
First Quarter 2017 Environmental Monitoring Report
Hansville Landfill
Kitsap County, WA

ATTACHMENT D

Field Forms and Laboratory Reports

ANALYTICAL REPORT

Job Number: 280-93434-1

Job Description: Hansville Landfill

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

Attention: Mr. Aaron Pruitt

Approved for release.
Betsy A Sara
Project Manager II
2/23/2017 4:33 PM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
02/23/2017

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

CASE NARRATIVE

Client: Aspect Consulting

Project: Hansville Landfill

Report Number: 280-93434-1

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.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving

The samples were received on 01/28/2017; the samples arrived on ice. The temperatures of the coolers at receipt were 0.2º C, 0.6º C and 1.2º C.

One of twelve hydrochloric preserved VOA vials for the TRIP BLANK was broken in transit. Sufficient volume remained to proceed with the analysis. The client was notified.

Holding Times

The analyses for Nitrate, Nitrite and Ortho-phosphate for all samples were performed outside of hold due to more than half of the hold time or all holding time expiring during transit. It is TestAmerica's policy to analyze all samples within holding times, but when samples are received with less than half the hold time remaining, this can not be guaranteed. The client was notified.

All other 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)

Sample MW-7 was selected to fulfill the laboratory batch quality control requirements for Method 300.0. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Orthophosphate as P-Dissolved above the upper control limit. 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.

Sample MW-13D was selected to fulfill the laboratory batch quality control requirements for Method 300.0. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Orthophosphate as P-Dissolved above the upper control limit. 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.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Ammonia Method 350.1. 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.

Organics

The analyte 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limit for the analyte 2-chloroethyl vinyl ether is not reliable or defensible.

General Comments

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

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

EXECUTIVE SUMMARY - Detections

Client: Aspect Consulting Job Number: 280-93434-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-93434-1	**MW-7**					
Chloride		2.0		1.0	mg/L	300.0
Nitrate		0.56	H	0.50	mg/L	300.0
Sulfate		4.3		1.0	mg/L	300.0
Total Alkalinity		160		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		160		5.0	mg/L	SM 2320B
Total Organic Carbon - Average		1.5		1.0	mg/L	SM 5310B
Dissolved						
Manganese		1.7		1.0	ug/L	6020
280-93434-2	**MW-5**					
Chloride		2.6		1.0	mg/L	300.0
Nitrate		0.92	H	0.50	mg/L	300.0
Sulfate		7.7		1.0	mg/L	300.0
Total Alkalinity		59		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		59		5.0	mg/L	SM 2320B
Dissolved						
Orthophosphate as P-Dissolved		0.63	H	0.50	mg/L	300.0
280-93434-3	**MW-14**					
1,2-Dichloroethene, Total		3.3		2.0	ug/L	8260C
cis-1,2-Dichloroethene		3.3		1.0	ug/L	8260C
Vinyl chloride		0.14		0.020	ug/L	8260C SIM
Chloride		5.3		1.0	mg/L	300.0
Sulfate		15		1.0	mg/L	300.0
Total Alkalinity		120		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		120		5.0	mg/L	SM 2320B
Dissolved						
Manganese		2100		1.0	ug/L	6020
280-93434-4	**MW-6**					
Ethyl ether		1.2		1.0	ug/L	8260C
Vinyl chloride		0.16		0.020	ug/L	8260C SIM
Chloride		15		1.0	mg/L	300.0
Nitrate		1.8	H	0.50	mg/L	300.0
Sulfate		23		1.0	mg/L	300.0
Total Alkalinity		150		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		150		5.0	mg/L	SM 2320B
Total Organic Carbon - Average		1.5		1.0	mg/L	SM 5310B
Dissolved						
Manganese		430		1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: Aspect Consulting Job Number: 280-93434-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-93434-5	**MW-12I**					
Vinyl chloride		0.060		0.020	ug/L	8260C SIM
Chloride		2.7		1.0	mg/L	300.0
Sulfate		3.9		1.0	mg/L	300.0
Total Alkalinity		77		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		77		5.0	mg/L	SM 2320B
Total Organic Carbon - Average		2.9		1.0	mg/L	SM 5310B
Dissolved						
Manganese		38		1.0	ug/L	6020
280-93434-6	**MW-50I**					
1,2-Dichloroethene, Total		3.1		2.0	ug/L	8260C
cis-1,2-Dichloroethene		3.1		1.0	ug/L	8260C
Vinyl chloride		0.14		0.020	ug/L	8260C SIM
Chloride		6.5		1.0	mg/L	300.0
Sulfate		18		1.0	mg/L	300.0
Ammonia as N		0.072		0.030	mg/L	350.1
Total Alkalinity		120		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		120		5.0	mg/L	SM 2320B
Dissolved						
Manganese		2200		1.0	ug/L	6020
280-93434-7	**MW-13D**					
Chloride		6.1		1.0	mg/L	300.0
Sulfate		18		1.0	mg/L	300.0
Total Alkalinity		76		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		76		5.0	mg/L	SM 2320B
Dissolved						
Manganese		24		1.0	ug/L	6020
280-93434-8	**SW-1**					
Chloride		4.6		1.0	mg/L	300.0
Nitrate		1.6	H	0.50	mg/L	300.0
Sulfate		11		1.0	mg/L	300.0
Total Alkalinity		76		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		76		5.0	mg/L	SM 2320B
Total Organic Carbon - Average		2.8		1.0	mg/L	SM 5310B
Dissolved						
Manganese		1.0		1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: Aspect Consulting Job Number: 280-93434-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-93434-9	**SW-4**					
Chloride		12		1.0	mg/L	300.0
Nitrate		1.2	H	0.50	mg/L	300.0
Sulfate		18		1.0	mg/L	300.0
Total Alkalinity		130		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		130		5.0	mg/L	SM 2320B
Total Organic Carbon - Average		10		1.0	mg/L	SM 5310B
Dissolved						
Manganese		31		1.0	ug/L	6020
280-93434-10	**SW-6**					
Chloride		3.9		1.0	mg/L	300.0
Nitrate		0.79	H	0.50	mg/L	300.0
Sulfate		6.2		1.0	mg/L	300.0
Total Alkalinity		30		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		30		5.0	mg/L	SM 2320B
Total Organic Carbon - Average		19		1.0	mg/L	SM 5310B
Dissolved						
Manganese		11		1.0	ug/L	6020
280-93434-11	**SW-7**					
Chloride		3.8		1.0	mg/L	300.0
Nitrate		2.3	H	0.50	mg/L	300.0
Sulfate		7.2		1.0	mg/L	300.0
Total Alkalinity		37		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity		37		5.0	mg/L	SM 2320B
Total Organic Carbon - Average		8.8		1.0	mg/L	SM 5310B
Dissolved						
Manganese		1.9		1.0	ug/L	6020

METHOD SUMMARY

Client: Aspect Consulting Job Number: 280-93434-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration	TAL DEN		FILTRATION
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Sample Filtration	TAL DEN		FILTRATION
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Alkalinity	TAL DEN	SM SM 2320B	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260C SIM	
Purge and Trap	TAL BUF		SW846 5030C
General Sub Contract Method	SC0056	Subcontract	

Lab References:

SC0056 = Analytical Resources, Inc

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Method References:

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

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.

METHOD / ANALYST SUMMARY

Client: Aspect Consulting

Job Number: 280-93434-1

Method	Analyst	Analyst ID
SW846 8260C	Farrell, Ryan J	RJF
SW846 8260C SIM	Gentile, Joseph W	JWG
SW846 6020	Mooney, Joseph C	JM
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 350.1	Spedale, Morgan A	MAS
SM SM 2320B	Carter, Melynda M	MMC
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Aspect Consulting

Job Number: 280-93434-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-93434-1	MW-7	Water	01/25/2017 1100	01/28/2017 0825
280-93434-2	MW-5	Water	01/25/2017 1315	01/28/2017 0825
280-93434-3	MW-14	Water	01/25/2017 1430	01/28/2017 0825
280-93434-4	MW-6	Water	01/25/2017 1550	01/28/2017 0825
280-93434-5	MW-12I	Water	01/25/2017 1650	01/28/2017 0825
280-93434-6	MW-50I	Water	01/25/2017 0000	01/28/2017 0825
280-93434-7	MW-13D	Water	01/25/2017 1210	01/28/2017 0825
280-93434-8	SW-1	Water	01/26/2017 0830	01/28/2017 0825
280-93434-9	SW-4	Water	01/26/2017 0915	01/28/2017 0825
280-93434-10	SW-6	Water	01/26/2017 1000	01/28/2017 0825
280-93434-11	SW-7	Water	01/26/2017 1100	01/28/2017 0825
280-93434-12TB	TRIP BLANK	Water	01/26/2017 0000	01/28/2017 0825

SAMPLE RESULTS

Client Sample ID: **MW-7**

Lab Sample ID: 280-93434-1 Date Sampled: 01/25/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2324			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2324				

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

Client: Aspect Consulting | Job Number: 280-93434-1

Client Sample ID: **MW-7**

Lab Sample ID: 280-93434-1 | Date Sampled: 01/25/2017 1100
Client Matrix: Water | Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2324			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2324				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-7

Lab Sample ID: 280-93434-1 Date Sampled: 01/25/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2324			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2324				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	102		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-7

Lab Sample ID: 280-93434-1 Date Sampled: 01/25/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22514.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2324			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2324				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-5**

Lab Sample ID: 280-93434-2 Date Sampled: 01/25/2017 1315
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2351			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2351				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-5

Lab Sample ID: 280-93434-2 Date Sampled: 01/25/2017 1315
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2351			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2351				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-5

Lab Sample ID: 280-93434-2 Date Sampled: 01/25/2017 1315
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2351			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2351				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	100		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-5

Lab Sample ID: 280-93434-2 Date Sampled: 01/25/2017 1315
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22515.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2351			Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2351				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-14**

Lab Sample ID: 280-93434-3 Date Sampled: 01/25/2017 1430
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22516.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0018			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0018				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	ND		1.0
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,1-Dichloropropene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0
1,2,3-Trichloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2,4-Trimethylbenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane (EDB)	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloroethene, Total	3.3		2.0
1,2-Dichloropropane	ND		1.0
1,3,5-Trichlorobenzene	ND		1.0
1,3,5-Trimethylbenzene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,3-Dichloropropane	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,4-Dioxane	ND		40
2,2-Dichloropropane	ND		1.0
2-Butanone (MEK)	ND		10
2-Chloroethyl vinyl ether	ND		5.0
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Acetonitrile	ND		15
Acrolein	ND		20
Acrylonitrile	ND		5.0
Benzene	ND		1.0
Bromobenzene	ND		1.0
Bromochloromethane	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Butyl alcohol, n-	ND		40
Butyl alcohol, tert-	ND		10
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chlorodifluoromethane	ND		1.0
Chloroethane	ND		1.0

Client Sample ID: **MW-14**

Lab Sample ID: 280-93434-3 Date Sampled: 01/25/2017 1430
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22516.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0018			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0018				

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	3.3		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dibromomethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Dichlorofluoromethane	ND		1.0
Ethyl acetate	ND		1.0
Ethyl ether	ND		1.0
Ethyl tert-butyl ether	ND		1.0
Ethylbenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
Hexane	ND		10
Iodomethane	ND		1.0
Isobutanol	ND		25
Isopropyl ether	ND		1.0
Isopropylbenzene	ND		1.0
Methacrylonitrile	ND		5.0
Methyl acetate	ND		2.5
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
m-Xylene & p-Xylene	ND		2.0
Naphthalene	ND		1.0
n-Butylbenzene	ND		1.0
N-Propylbenzene	ND		1.0
o-Chlorotoluene	ND		1.0
o-Xylene	ND		1.0
p-Chlorotoluene	ND		1.0
p-Cymene	ND		1.0
sec-Butylbenzene	ND		1.0
Styrene	ND		1.0
Tert-amyl methyl ether	ND		1.0
tert-Butylbenzene	ND		1.0
Tetrachloroethene	ND		1.0
Tetrahydrofuran	ND		5.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
trans-1,4-Dichloro-2-butene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0
Vinyl acetate	ND		5.0
Vinyl chloride	ND		1.0

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-14

Lab Sample ID: 280-93434-3 Date Sampled: 01/25/2017 1430
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22516.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0018			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0018				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	100		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-14

Lab Sample ID: 280-93434-3 Date Sampled: 01/25/2017 1430
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22516.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0018			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0018				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: MW-6

Lab Sample ID: 280-93434-4 Date Sampled: 01/25/2017 1550
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22517.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0045			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0045				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-6

Lab Sample ID: 280-93434-4 Date Sampled: 01/25/2017 1550
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22517.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0045			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0045				

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dibromomethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Dichlorofluoromethane	ND		1.0
Ethyl acetate	ND		1.0
Ethyl ether	1.2		1.0
Ethyl tert-butyl ether	ND		1.0
Ethylbenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
Hexane	ND		10
Iodomethane	ND		1.0
Isobutanol	ND		25
Isopropyl ether	ND		1.0
Isopropylbenzene	ND		1.0
Methacrylonitrile	ND		5.0
Methyl acetate	ND		2.5
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
m-Xylene & p-Xylene	ND		2.0
Naphthalene	ND		1.0
n-Butylbenzene	ND		1.0
N-Propylbenzene	ND		1.0
o-Chlorotoluene	ND		1.0
o-Xylene	ND		1.0
p-Chlorotoluene	ND		1.0
p-Cymene	ND		1.0
sec-Butylbenzene	ND		1.0
Styrene	ND		1.0
Tert-amyl methyl ether	ND		1.0
tert-Butylbenzene	ND		1.0
Tetrachloroethene	ND		1.0
Tetrahydrofuran	ND		5.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
trans-1,4-Dichloro-2-butene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0
Vinyl acetate	ND		5.0
Vinyl chloride	ND		1.0

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-6

Lab Sample ID: 280-93434-4 Date Sampled: 01/25/2017 1550
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22517.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0045			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0045				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	100		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-6

Lab Sample ID: 280-93434-4 Date Sampled: 01/25/2017 1550
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22517.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0045			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0045				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-12I**

Lab Sample ID: 280-93434-5 Date Sampled: 01/25/2017 1650
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22518.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0113			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0113				

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

Client Sample ID: **MW-12I**

Lab Sample ID: 280-93434-5 Date Sampled: 01/25/2017 1650
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22518.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0113			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0113				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-12I

Lab Sample ID: 280-93434-5 Date Sampled: 01/25/2017 1650
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22518.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0113			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0113				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	100		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-12I

Lab Sample ID: 280-93434-5 Date Sampled: 01/25/2017 1650
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22518.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0113			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0113				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-50I**

Lab Sample ID: 280-93434-6 Date Sampled: 01/25/2017 0000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22519.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0140			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0140				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	ND		1.0
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,1-Dichloropropene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0
1,2,3-Trichloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2,4-Trimethylbenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane (EDB)	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloroethene, Total	3.1		2.0
1,2-Dichloropropane	ND		1.0
1,3,5-Trichlorobenzene	ND		1.0
1,3,5-Trimethylbenzene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,3-Dichloropropane	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,4-Dioxane	ND		40
2,2-Dichloropropane	ND		1.0
2-Butanone (MEK)	ND		10
2-Chloroethyl vinyl ether	ND		5.0
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Acetonitrile	ND		15
Acrolein	ND		20
Acrylonitrile	ND		5.0
Benzene	ND		1.0
Bromobenzene	ND		1.0
Bromochloromethane	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Butyl alcohol, n-	ND		40
Butyl alcohol, tert-	ND		10
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chlorodifluoromethane	ND		1.0
Chloroethane	ND		1.0

Client Sample ID: **MW-50I**

Lab Sample ID: 280-93434-6 Date Sampled: 01/25/2017 0000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22519.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0140			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0140				

Analyte	Result (ug/L)	Qualifier	RL
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	3.1		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dibromomethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Dichlorofluoromethane	ND		1.0
Ethyl acetate	ND		1.0
Ethyl ether	ND		1.0
Ethyl tert-butyl ether	ND		1.0
Ethylbenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
Hexane	ND		10
Iodomethane	ND		1.0
Isobutanol	ND		25
Isopropyl ether	ND		1.0
Isopropylbenzene	ND		1.0
Methacrylonitrile	ND		5.0
Methyl acetate	ND		2.5
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
m-Xylene & p-Xylene	ND		2.0
Naphthalene	ND		1.0
n-Butylbenzene	ND		1.0
N-Propylbenzene	ND		1.0
o-Chlorotoluene	ND		1.0
o-Xylene	ND		1.0
p-Chlorotoluene	ND		1.0
p-Cymene	ND		1.0
sec-Butylbenzene	ND		1.0
Styrene	ND		1.0
Tert-amyl methyl ether	ND		1.0
tert-Butylbenzene	ND		1.0
Tetrachloroethene	ND		1.0
Tetrahydrofuran	ND		5.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
trans-1,4-Dichloro-2-butene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0
Vinyl acetate	ND		5.0
Vinyl chloride	ND		1.0

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-50I

Lab Sample ID: 280-93434-6 Date Sampled: 01/25/2017 0000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22519.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0140			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0140				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-50I

Lab Sample ID: 280-93434-6 Date Sampled: 01/25/2017 0000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22519.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0140			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0140				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: MW-13D

Lab Sample ID: 280-93434-7 Date Sampled: 01/25/2017 1210
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22520.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0207			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0207				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-13D

Lab Sample ID: 280-93434-7 Date Sampled: 01/25/2017 1210
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22520.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0207			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0207				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-13D

Lab Sample ID: 280-93434-7 Date Sampled: 01/25/2017 1210
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22520.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0207			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0207				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	101		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-13D

Lab Sample ID: 280-93434-7 Date Sampled: 01/25/2017 1210
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22520.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0207			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0207				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **SW-1**

Lab Sample ID: 280-93434-8 Date Sampled: 01/26/2017 0830
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22521.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0234			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0234				

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

Client: Aspect Consulting | Job Number: 280-93434-1

Client Sample ID: **SW-1**

Lab Sample ID: 280-93434-8 | Date Sampled: 01/26/2017 0830
Client Matrix: Water | Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22521.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0234			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0234				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-1

Lab Sample ID: 280-93434-8 Date Sampled: 01/26/2017 0830
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22521.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0234			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0234				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	99		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-1

Lab Sample ID: 280-93434-8 Date Sampled: 01/26/2017 0830
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22521.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0234			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0234				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **SW-4**

Lab Sample ID: 280-93434-9 Date Sampled: 01/26/2017 0915
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22522.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0302			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0302				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-4

Lab Sample ID: 280-93434-9 Date Sampled: 01/26/2017 0915
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22522.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0302			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0302				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-4

Lab Sample ID: 280-93434-9 Date Sampled: 01/26/2017 0915
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22522.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0302			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0302				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	99		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-4

Lab Sample ID: 280-93434-9 Date Sampled: 01/26/2017 0915
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22522.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0302			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0302				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **SW-6**

Lab Sample ID: 280-93434-10 Date Sampled: 01/26/2017 1000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22523.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0329			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0329				

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

Client Sample ID: **SW-6**

Lab Sample ID: 280-93434-10 Date Sampled: 01/26/2017 1000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22523.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0329			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0329				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-6

Lab Sample ID: 280-93434-10 Date Sampled: 01/26/2017 1000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22523.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0329			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0329				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	99		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-6

Lab Sample ID: 280-93434-10 Date Sampled: 01/26/2017 1000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22523.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0329			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0329				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **SW-7**

Lab Sample ID: 280-93434-11 Date Sampled: 01/26/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22524.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0356			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0356				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-7

Lab Sample ID: 280-93434-11 Date Sampled: 01/26/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22524.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0356			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0356				

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

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-7

Lab Sample ID: 280-93434-11 Date Sampled: 01/26/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22524.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0356			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0356				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	100		80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-7

Lab Sample ID: 280-93434-11 Date Sampled: 01/26/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P22524.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0356			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0356				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-7

Lab Sample ID: 280-93434-1 Date Sampled: 01/25/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2043.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1248			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1248				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	103		50 - 150
TBA-d9 (Surr)	98		50 - 150

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-5

Lab Sample ID: 280-93434-2 Date Sampled: 01/25/2017 1315
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2044.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1313			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1313				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	101		50 - 150

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **MW-14**

Lab Sample ID: 280-93434-3
Client Matrix: Water

Date Sampled: 01/25/2017 1430
Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2045.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1337			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1337				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	0.14		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	104		50 - 150
TBA-d9 (Surr)	92		50 - 150

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: MW-6

Lab Sample ID: 280-93434-4
Client Matrix: Water

Date Sampled: 01/25/2017 1550
Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2046.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1401			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1401				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	0.16		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	100		50 - 150
TBA-d9 (Surr)	93		50 - 150

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-12I

Lab Sample ID: 280-93434-5 Date Sampled: 01/25/2017 1650
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2047.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1426			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1426				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	0.060		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	99		50 - 150
TBA-d9 (Surr)	95		50 - 150

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: MW-50I

Lab Sample ID: 280-93434-6 Date Sampled: 01/25/2017 0000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2048.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1450			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1450				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	0.14		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	100		50 - 150
TBA-d9 (Surr)	103		50 - 150

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: MW-13D

Lab Sample ID: 280-93434-7
Client Matrix: Water

Date Sampled: 01/25/2017 1210
Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2049.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1515			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1515				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	108		50 - 150
TBA-d9 (Surr)	109		50 - 150

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-1

Lab Sample ID: 280-93434-8 Date Sampled: 01/26/2017 0830
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2050.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1539			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1539				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	100		50 - 150
TBA-d9 (Surr)	100		50 - 150

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-4

Lab Sample ID: 280-93434-9 Date Sampled: 01/26/2017 0915
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2051.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1603			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1603				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	101		50 - 150
TBA-d9 (Surr)	97		50 - 150

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: SW-6

Lab Sample ID: 280-93434-10 Date Sampled: 01/26/2017 1000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2052.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1627			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1627				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	101		50 - 150
TBA-d9 (Surr)	94		50 - 150

Client: Aspect Consulting | Job Number: 280-93434-1

Client Sample ID: **SW-7**

Lab Sample ID: 280-93434-11 | Date Sampled: 01/26/2017 1100
Client Matrix: Water | Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2053.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1652			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1652				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	89		50 - 150

Client: Aspect Consulting Job Number: 280-93434-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-93434-12TB Date Sampled: 01/26/2017 0000
Client Matrix: Water Date Received: 01/28/2017 0825

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J2054.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1716			Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1716				

Analyte	Result (ug/L)	Qualifier	RL
Vinyl chloride	ND		0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	101		50 - 150
TBA-d9 (Surr)	100		50 - 150

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: MW-7

Lab Sample ID: 280-93434-1
Client Matrix: Water

Date Sampled: 01/25/2017 1100
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	127SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2323			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	1.7		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: MW-5

Lab Sample ID: 280-93434-2
Client Matrix: Water

Date Sampled: 01/25/2017 1315
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	128SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2327			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	ND		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **MW-14**

Lab Sample ID: 280-93434-3
Client Matrix: Water

Date Sampled: 01/25/2017 1430
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	129SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2331			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	2100		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **MW-6**

Lab Sample ID: 280-93434-4
Client Matrix: Water

Date Sampled: 01/25/2017 1550
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	130SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2334			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	430		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **MW-12I**

Lab Sample ID: 280-93434-5
Client Matrix: Water

Date Sampled: 01/25/2017 1650
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	131SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2338			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	38		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **MW-50I**

Lab Sample ID: 280-93434-6
Client Matrix: Water

Date Sampled: 01/25/2017 0000
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	132SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2342			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	2200		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **MW-13D**

Lab Sample ID: 280-93434-7
Client Matrix: Water

Date Sampled: 01/25/2017 1210
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	133SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2346			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	24		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **SW-1**

Lab Sample ID: 280-93434-8
Client Matrix: Water

Date Sampled: 01/26/2017 0830
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	137SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/03/2017 0001			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	1.0		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **SW-4**

Lab Sample ID: 280-93434-9
Client Matrix: Water

Date Sampled: 01/26/2017 0915
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	138SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/03/2017 0005			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	31		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **SW-6**

Lab Sample ID: 280-93434-10
Client Matrix: Water

Date Sampled: 01/26/2017 1000
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	139SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/03/2017 0009			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	11		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Client Sample ID: **SW-7**

Lab Sample ID: 280-93434-11
Client Matrix: Water

Date Sampled: 01/26/2017 1100
Date Received: 01/28/2017 0825

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-360985	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-360693	Lab File ID:	140SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	02/03/2017 0013			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				

Analyte	Result (ug/L)	Qualifier	RL
Manganese	1.9		1.0

General Chemistry

Client Sample ID: MW-7

Lab Sample ID: 280-93434-1 Date Sampled: 01/25/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	2.0		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1230					
Nitrate	0.56	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1230					
Orthophosphate as P-Dissolved	ND	H F1	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1649					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1230					
Sulfate	4.3		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1230					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360605	Analysis Date: 01/31/2017 1518					
Total Alkalinity	160		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1730					
Bicarbonate Alkalinity	160		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1730					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1730					
Total Organic Carbon - Average	1.5		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/01/2017 2238					

General Chemistry

Client Sample ID: MW-5

Lab Sample ID: 280-93434-2 Date Sampled: 01/25/2017 1315
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	2.6		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1349					
Nitrate	0.92	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1349					
Orthophosphate as P-Dissolved	0.63	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1808					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1349					
Sulfate	7.7		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1349					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360605	Analysis Date: 01/31/2017 1520					
Total Alkalinity	59		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1735					
Bicarbonate Alkalinity	59		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1735					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1735					
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/01/2017 2253					

General Chemistry

Client Sample ID: MW-14

Lab Sample ID: 280-93434-3 Date Sampled: 01/25/2017 1430
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	5.3		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1409					
Nitrate	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1409					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1828					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1409					
Sulfate	15		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1409					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360605	Analysis Date: 01/31/2017 1522					
Total Alkalinity	120		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1740					
Bicarbonate Alkalinity	120		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1740					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1740					
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/01/2017 2337					

General Chemistry

Client Sample ID: MW-6

Lab Sample ID: 280-93434-4 Date Sampled: 01/25/2017 1550
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	15		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1429					
Nitrate	1.8	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1429					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1848					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1429					
Sulfate	23		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1429					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360605	Analysis Date: 01/31/2017 1524					
Total Alkalinity	150		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1746					
Bicarbonate Alkalinity	150		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1746					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1746					
Total Organic Carbon - Average	1.5		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0022					

General Chemistry

Client Sample ID: MW-12I

Lab Sample ID: 280-93434-5 Date Sampled: 01/25/2017 1650
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	2.7		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1449					
Nitrate	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1449					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1948					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 1449					
Sulfate	3.9		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360357	Analysis Date: 01/28/2017 1449					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360605	Analysis Date: 01/31/2017 1526					
Total Alkalinity	77		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1751					
Bicarbonate Alkalinity	77		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1751					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1751					
Total Organic Carbon - Average	2.9		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0036					

General Chemistry

Client Sample ID: MW-50I

Lab Sample ID: 280-93434-6 Date Sampled: 01/25/2017 0000
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	6.5		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1504					
Nitrate	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1504					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 2008					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1504					
Sulfate	18		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1504					
Ammonia as N	0.072		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360795	Analysis Date: 02/01/2017 1730					
Total Alkalinity	120		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1757					
Bicarbonate Alkalinity	120		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1757					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1757					
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0051					

General Chemistry

Client Sample ID: MW-13D

Lab Sample ID: 280-93434-7 Date Sampled: 01/25/2017 1210
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	6.1		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1614					
Nitrate	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1614					
Orthophosphate as P-Dissolved	ND	H F1	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 2028					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1614					
Sulfate	18		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1614					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360795	Analysis Date: 02/01/2017 1732					
Total Alkalinity	76		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1813					
Bicarbonate Alkalinity	76		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1813					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360647	Analysis Date: 01/31/2017 1813					
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0106					

General Chemistry

Client Sample ID: SW-1

Lab Sample ID: 280-93434-8 Date Sampled: 01/26/2017 0830
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	4.6		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1708					
Nitrate	1.6	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1708					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 2147					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1708					
Sulfate	11		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1708					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360795	Analysis Date: 02/01/2017 1734					
Total Alkalinity	76		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1308					
Bicarbonate Alkalinity	76		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1308					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1308					
Total Organic Carbon - Average	2.8		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0120					

General Chemistry

Client Sample ID: SW-4

Lab Sample ID: 280-93434-9 Date Sampled: 01/26/2017 0915
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	12		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1818					
Nitrate	1.2	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1818					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 2207					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1818					
Sulfate	18		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1818					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360795	Analysis Date: 02/01/2017 1736					
Total Alkalinity	130		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1312					
Bicarbonate Alkalinity	130		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1312					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1312					
Total Organic Carbon - Average	10		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0135					

General Chemistry

Client Sample ID: SW-6

Lab Sample ID: 280-93434-10 Date Sampled: 01/26/2017 1000
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	3.9		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1836					
Nitrate	0.79	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1836					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 2227					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1836					
Sulfate	6.2		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1836					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360795	Analysis Date: 02/01/2017 1738					
Total Alkalinity	30		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1317					
Bicarbonate Alkalinity	30		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1317					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1317					
Total Organic Carbon - Average	19		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0152					

General Chemistry

Client Sample ID: SW-7

Lab Sample ID: 280-93434-11 Date Sampled: 01/26/2017 1100
Client Matrix: Water Date Received: 01/28/2017 0825

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	3.8		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1854					
Nitrate	2.3	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1854					
Orthophosphate as P-Dissolved	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360356	Analysis Date: 01/28/2017 2247					
Nitrite	ND	H	mg/L	0.50	1.0	300.0
Analysis Batch: 280-360358	Analysis Date: 01/28/2017 1854					
Sulfate	7.2		mg/L	1.0	1.0	300.0
Analysis Batch: 280-360359	Analysis Date: 01/28/2017 1854					
Ammonia as N	ND		mg/L	0.030	1.0	350.1
Analysis Batch: 280-360795	Analysis Date: 02/01/2017 1740					
Total Alkalinity	37		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1322					
Bicarbonate Alkalinity	37		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1322					
Carbonate Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
Analysis Batch: 280-360740	Analysis Date: 02/01/2017 1322					
Total Organic Carbon - Average	8.8		mg/L	1.0	1.0	SM 5310B
Analysis Batch: 280-360836	Analysis Date: 02/02/2017 0237					

DATA REPORTING QUALIFIERS

Client: Aspect Consulting Job Number: 280-93434-1

Lab Section	Qualifier	Description
General Chemistry		
	F1	MS and/or MSD Recovery is outside acceptance limits.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Client: Aspect Consulting Job Number: 280-93434-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-342379					
LCS 480-342379/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-342379/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-342379/8	Method Blank	T	Water	8260C SIM	
280-93434-1	MW-7	T	Water	8260C SIM	
280-93434-2	MW-5	T	Water	8260C SIM	
280-93434-3	MW-14	T	Water	8260C SIM	
280-93434-4	MW-6	T	Water	8260C SIM	
280-93434-5	MW-12I	T	Water	8260C SIM	
280-93434-6	MW-50I	T	Water	8260C SIM	
280-93434-7	MW-13D	T	Water	8260C SIM	
280-93434-8	SW-1	T	Water	8260C SIM	
280-93434-9	SW-4	T	Water	8260C SIM	
280-93434-10	SW-6	T	Water	8260C SIM	
280-93434-11	SW-7	T	Water	8260C SIM	
280-93434-12TB	TRIP BLANK	T	Water	8260C SIM	
Analysis Batch:480-342482					
LCS 480-342482/5	Lab Control Sample	T	Water	8260C	
MB 480-342482/7	Method Blank	T	Water	8260C	
280-93434-1	MW-7	T	Water	8260C	
280-93434-2	MW-5	T	Water	8260C	
280-93434-3	MW-14	T	Water	8260C	
280-93434-4	MW-6	T	Water	8260C	
280-93434-5	MW-12I	T	Water	8260C	
280-93434-6	MW-50I	T	Water	8260C	
280-93434-7	MW-13D	T	Water	8260C	
280-93434-8	SW-1	T	Water	8260C	
280-93434-9	SW-4	T	Water	8260C	
280-93434-10	SW-6	T	Water	8260C	
280-93434-11	SW-7	T	Water	8260C	
480-112986-B-1 MS	Matrix Spike	T	Water	8260C	
480-112986-B-1 MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis
T = Total

Client: Aspect Consulting Job Number: 280-93434-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-360693					
LCS 280-360579/2-B	Lab Control Sample	D	Water	3005A	
MB 280-360579/1-B	Method Blank	D	Water	3005A	
280-93434-1	MW-7	D	Water	3005A	
280-93434-2	MW-5	D	Water	3005A	
280-93434-3	MW-14	D	Water	3005A	
280-93434-4	MW-6	D	Water	3005A	
280-93434-5	MW-12I	D	Water	3005A	
280-93434-6	MW-50I	D	Water	3005A	
280-93434-7	MW-13D	D	Water	3005A	
280-93434-8	SW-1	D	Water	3005A	
280-93434-9	SW-4	D	Water	3005A	
280-93434-10	SW-6	D	Water	3005A	
280-93434-11	SW-7	D	Water	3005A	
280-93434-11MS	Matrix Spike	D	Water	3005A	
280-93434-11MSD	Matrix Spike Duplicate	D	Water	3005A	
Analysis Batch:280-360985					
LCS 280-360579/2-B	Lab Control Sample	D	Water	6020	280-360693
MB 280-360579/1-B	Method Blank	D	Water	6020	280-360693
280-93434-1	MW-7	D	Water	6020	280-360693
280-93434-2	MW-5	D	Water	6020	280-360693
280-93434-3	MW-14	D	Water	6020	280-360693
280-93434-4	MW-6	D	Water	6020	280-360693
280-93434-5	MW-12I	D	Water	6020	280-360693
280-93434-6	MW-50I	D	Water	6020	280-360693
280-93434-7	MW-13D	D	Water	6020	280-360693
280-93434-8	SW-1	D	Water	6020	280-360693
280-93434-9	SW-4	D	Water	6020	280-360693
280-93434-10	SW-6	D	Water	6020	280-360693
280-93434-11	SW-7	D	Water	6020	280-360693
280-93434-11MS	Matrix Spike	D	Water	6020	280-360693
280-93434-11MSD	Matrix Spike Duplicate	D	Water	6020	280-360693

Report Basis
D = Dissolved

Client: Aspect Consulting Job Number: 280-93434-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-360356					
LCS 280-360366/1-A	Lab Control Sample	D	Water	300.0	
LCS 280-360356/4	Lab Control Sample	T	Water	300.0	
LCSD 280-360366/2-A	Lab Control Sample Duplicate	D	Water	300.0	
LCSD 280-360356/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-360366/3-A	Method Blank	D	Water	300.0	
MB 280-360356/6	Method Blank	T	Water	300.0	
280-93434-1	MW-7	D	Water	300.0	
280-93434-1	MW-7	T	Water	300.0	
280-93434-1DU	Duplicate	D	Water	300.0	
280-93434-1DU	Duplicate	T	Water	300.0	
280-93434-1MS	Matrix Spike	D	Water	300.0	
280-93434-1MS	Matrix Spike	T	Water	300.0	
280-93434-1MSD	Matrix Spike Duplicate	D	Water	300.0	
280-93434-1MSD	Matrix Spike Duplicate	T	Water	300.0	
280-93434-2	MW-5	D	Water	300.0	
280-93434-2	MW-5	T	Water	300.0	
280-93434-3	MW-14	D	Water	300.0	
280-93434-3	MW-14	T	Water	300.0	
280-93434-4	MW-6	D	Water	300.0	
280-93434-4	MW-6	T	Water	300.0	
280-93434-5	MW-12I	D	Water	300.0	
280-93434-5	MW-12I	T	Water	300.0	
280-93434-6	MW-50I	D	Water	300.0	
280-93434-7	MW-13D	D	Water	300.0	
280-93434-7DU	Duplicate	D	Water	300.0	
280-93434-7MS	Matrix Spike	D	Water	300.0	
280-93434-7MSD	Matrix Spike Duplicate	D	Water	300.0	
280-93434-8	SW-1	D	Water	300.0	
280-93434-9	SW-4	D	Water	300.0	
280-93434-10	SW-6	D	Water	300.0	
280-93434-11	SW-7	D	Water	300.0	
Analysis Batch:280-360357					
LCS 280-360357/4	Lab Control Sample	T	Water	300.0	
LCSD 280-360357/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-360357/6	Method Blank	T	Water	300.0	
280-93434-1	MW-7	T	Water	300.0	
280-93434-1DU	Duplicate	T	Water	300.0	
280-93434-1MS	Matrix Spike	T	Water	300.0	
280-93434-1MSD	Matrix Spike Duplicate	T	Water	300.0	
280-93434-2	MW-5	T	Water	300.0	
280-93434-3	MW-14	T	Water	300.0	
280-93434-4	MW-6	T	Water	300.0	
280-93434-5	MW-12I	T	Water	300.0	

Client: Aspect Consulting Job Number: 280-93434-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-360358					
LCS 280-360358/4	Lab Control Sample	T	Water	300.0	
LCSD 280-360358/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-360358/6	Method Blank	T	Water	300.0	
280-93434-6	MW-50I	T	Water	300.0	
280-93434-6DU	Duplicate	T	Water	300.0	
280-93434-6MS	Matrix Spike	T	Water	300.0	
280-93434-6MSD	Matrix Spike Duplicate	T	Water	300.0	
280-93434-7	MW-13D	T	Water	300.0	
280-93434-8	SW-1	T	Water	300.0	
280-93434-8DU	Duplicate	T	Water	300.0	
280-93434-8MS	Matrix Spike	T	Water	300.0	
280-93434-8MSD	Matrix Spike Duplicate	T	Water	300.0	
280-93434-9	SW-4	T	Water	300.0	
280-93434-10	SW-6	T	Water	300.0	
280-93434-11	SW-7	T	Water	300.0	
Analysis Batch:280-360359					
LCS 280-360359/4	Lab Control Sample	T	Water	300.0	
LCSD 280-360359/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-360359/6	Method Blank	T	Water	300.0	
280-93434-6	MW-50I	T	Water	300.0	
280-93434-6DU	Duplicate	T	Water	300.0	
280-93434-6MS	Matrix Spike	T	Water	300.0	
280-93434-6MSD	Matrix Spike Duplicate	T	Water	300.0	
280-93434-7	MW-13D	T	Water	300.0	
280-93434-8	SW-1	T	Water	300.0	
280-93434-8DU	Duplicate	T	Water	300.0	
280-93434-8MS	Matrix Spike	T	Water	300.0	
280-93434-8MSD	Matrix Spike Duplicate	T	Water	300.0	
280-93434-9	SW-4	T	Water	300.0	
280-93434-10	SW-6	T	Water	300.0	
280-93434-11	SW-7	T	Water	300.0	
Analysis Batch:280-360444					
LCS 280-360493/1-A	Lab Control Sample	D	Water	300.0	
LCSD 280-360493/2-A	Lab Control Sample Duplicate	D	Water	300.0	
MB 280-360493/3-A	Method Blank	D	Water	300.0	
280-93434-2	MW-5	D	Water	300.0	
280-93434-2DU	Duplicate	D	Water	300.0	
280-93434-2MS	Matrix Spike	D	Water	300.0	
280-93434-2MSD	Matrix Spike Duplicate	D	Water	300.0	

Client: Aspect Consulting Job Number: 280-93434-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-360605					
LCS 280-360605/59	Lab Control Sample	T	Water	350.1	
LCSD 280-360605/60	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-360605/61	Method Blank	T	Water	350.1	
280-93434-1	MW-7	T	Water	350.1	
280-93434-2	MW-5	T	Water	350.1	
280-93434-3	MW-14	T	Water	350.1	
280-93434-4	MW-6	T	Water	350.1	
280-93434-5	MW-12I	T	Water	350.1	
Analysis Batch:280-360647					
LCS 280-360647/30	Lab Control Sample	T	Water	SM 2320B	
MB 280-360647/31	Method Blank	T	Water	SM 2320B	
280-93383-C-11 DU	Duplicate	T	Water	SM 2320B	
280-93434-1	MW-7	T	Water	SM 2320B	
280-93434-2	MW-5	T	Water	SM 2320B	
280-93434-3	MW-14	T	Water	SM 2320B	
280-93434-4	MW-6	T	Water	SM 2320B	
280-93434-5	MW-12I	T	Water	SM 2320B	
280-93434-6	MW-50I	T	Water	SM 2320B	
280-93434-7	MW-13D	T	Water	SM 2320B	
Analysis Batch:280-360740					
LCS 280-360740/4	Lab Control Sample	T	Water	SM 2320B	
MB 280-360740/5	Method Blank	T	Water	SM 2320B	
280-93349-F-1 DU	Duplicate	T	Water	SM 2320B	
280-93434-8	SW-1	T	Water	SM 2320B	
280-93434-9	SW-4	T	Water	SM 2320B	
280-93434-10	SW-6	T	Water	SM 2320B	
280-93434-11	SW-7	T	Water	SM 2320B	
Analysis Batch:280-360795					
LCS 280-360795/107	Lab Control Sample	T	Water	350.1	
LCSD 280-360795/108	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-360795/109	Method Blank	T	Water	350.1	
280-93407-O-7 MS	Matrix Spike	T	Water	350.1	
280-93407-O-7 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-93434-6	MW-50I	T	Water	350.1	
280-93434-7	MW-13D	T	Water	350.1	
280-93434-8	SW-1	T	Water	350.1	
280-93434-9	SW-4	T	Water	350.1	
280-93434-10	SW-6	T	Water	350.1	
280-93434-11	SW-7	T	Water	350.1	

Client: Aspect Consulting

Job Number: 280-93434-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-360836					
LCS 280-360836/35	Lab Control Sample	T	Water	SM 5310B	
MB 280-360836/36	Method Blank	T	Water	SM 5310B	
280-93434-1	MW-7	T	Water	SM 5310B	
280-93434-2	MW-5	T	Water	SM 5310B	
280-93434-3	MW-14	T	Water	SM 5310B	
280-93434-3MS	Matrix Spike	T	Water	SM 5310B	
280-93434-3MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-93434-4	MW-6	T	Water	SM 5310B	
280-93434-5	MW-12I	T	Water	SM 5310B	
280-93434-6	MW-50I	T	Water	SM 5310B	
280-93434-7	MW-13D	T	Water	SM 5310B	
280-93434-8	SW-1	T	Water	SM 5310B	
280-93434-9	SW-4	T	Water	SM 5310B	
280-93434-10	SW-6	T	Water	SM 5310B	
280-93434-11	SW-7	T	Water	SM 5310B	

Report Basis
D = Dissolved
T = Total

Client: Aspect Consulting

Job Number: 280-93434-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-93434-1	MW-7	100	99	102
280-93434-2	MW-5	100	99	100
280-93434-3	MW-14	103	96	100
280-93434-4	MW-6	102	98	100
280-93434-5	MW-12I	104	97	100
280-93434-6	MW-50I	100	95	100
280-93434-7	MW-13D	100	97	101
280-93434-8	SW-1	103	94	99
280-93434-9	SW-4	103	96	99
280-93434-10	SW-6	104	96	99
280-93434-11	SW-7	103	96	100
MB 480-342482/7		99	100	101
LCS 480-342482/5		100	102	100
480-112986-B-1 MS		94	102	99
480-112986-B-1 MSD		93	101	100

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
BFB = 4-Bromofluorobenzene (Surr)	73-120
TOL = Toluene-d8 (Surr)	80-120

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-93434-1	MW-7	103	98
280-93434-2	MW-5	102	101
280-93434-3	MW-14	104	92
280-93434-4	MW-6	100	93
280-93434-5	MW-12I	99	95
280-93434-6	MW-50I	100	103
280-93434-7	MW-13D	108	109
280-93434-8	SW-1	100	100
280-93434-9	SW-4	101	97
280-93434-10	SW-6	101	94
280-93434-11	SW-7	102	89
280-93434-12	TRIP BLANK	101	100
MB 480-342379/8		102	89
LCS 480-342379/5		104	94
LCSD 480-342379/6		102	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Method Blank - Batch: 480-342482

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-342482/7	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P22511.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2202	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2202				
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,1,1,2-Tetrachloroethane	ND		1.0
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,1-Dichloropropene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0
1,2,3-Trichloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2,4-Trimethylbenzene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		1.0
1,2-Dibromoethane (EDB)	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloroethene, Total	ND		2.0
1,2-Dichloropropane	ND		1.0
1,3,5-Trichlorobenzene	ND		1.0
1,3,5-Trimethylbenzene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,3-Dichloropropane	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,4-Dioxane	ND		40
2,2-Dichloropropane	ND		1.0
2-Butanone (MEK)	ND		10
2-Chloroethyl vinyl ether	ND		5.0
2-Hexanone	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		5.0
Acetone	ND		10
Acetonitrile	ND		15
Acrolein	ND		20
Acrylonitrile	ND		5.0
Benzene	ND		1.0
Bromobenzene	ND		1.0
Bromochloromethane	ND		1.0
Bromodichloromethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Butyl alcohol, n-	ND		40
Butyl alcohol, tert-	ND		10
Carbon disulfide	ND		1.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chlorodifluoromethane	ND		1.0

Method Blank - Batch: 480-342482

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-342482/7	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P22511.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2202	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2202				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
Cyclohexane	ND		1.0
Dibromochloromethane	ND		1.0
Dibromomethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
Dichlorofluoromethane	ND		1.0
Ethyl acetate	ND		1.0
Ethyl ether	ND		1.0
Ethyl tert-butyl ether	ND		1.0
Ethylbenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
Hexane	ND		10
Iodomethane	ND		1.0
Isobutanol	ND		25
Isopropyl ether	ND		1.0
Isopropylbenzene	ND		1.0
Methacrylonitrile	ND		5.0
Methyl acetate	ND		2.5
Methyl tert-butyl ether	ND		1.0
Methylcyclohexane	ND		1.0
Methylene Chloride	ND		1.0
m-Xylene & p-Xylene	ND		2.0
Naphthalene	ND		1.0
n-Butylbenzene	ND		1.0
N-Propylbenzene	ND		1.0
o-Chlorotoluene	ND		1.0
o-Xylene	ND		1.0
p-Chlorotoluene	ND		1.0
p-Cymene	ND		1.0
sec-Butylbenzene	ND		1.0
Styrene	ND		1.0
Tert-amyl methyl ether	ND		1.0
tert-Butylbenzene	ND		1.0
Tetrachloroethene	ND		1.0
Tetrahydrofuran	ND		5.0
Toluene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
trans-1,4-Dichloro-2-butene	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		1.0

Client: Aspect Consulting

Job Number: 280-93434-1

Method Blank - Batch: 480-342482

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-342482/7	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P22511.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2202	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2202				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Vinyl acetate	ND		5.0
Vinyl chloride	ND		1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	77 - 120
4-Bromofluorobenzene (Surr)	100	73 - 120
Toluene-d8 (Surr)	101	80 - 120

Method Blank TICs- Batch: 480-342482

Cas Number	Analyte	RT	Est. Result (ug/	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Lab Control Sample - Batch: 480-342482

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-342482/5	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P22509.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2107	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2107				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	25.0	25.4	102	80 - 120	
1,1,1-Trichloroethane	25.0	25.2	101	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	24.2	97	76 - 120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5	106	61 - 148	
1,1,2-Trichloroethane	25.0	24.3	97	76 - 122	
1,1-Dichloroethane	25.0	23.8	95	77 - 120	
1,1-Dichloroethene	25.0	25.9	104	66 - 127	
1,1-Dichloropropene	25.0	25.2	101	72 - 122	
1,2,3-Trichlorobenzene	25.0	23.3	93	75 - 123	
1,2,3-Trichloropropane	25.0	24.2	97	68 - 122	
1,2,4-Trichlorobenzene	25.0	23.7	95	79 - 122	
1,2,4-Trimethylbenzene	25.0	24.4	98	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	24.9	99	56 - 134	
1,2-Dibromoethane (EDB)	25.0	25.2	101	77 - 120	
1,2-Dichlorobenzene	25.0	23.6	94	80 - 124	
1,2-Dichloroethane	25.0	23.4	93	75 - 120	
1,2-Dichloroethene, Total	50.0	48.4	97	72 - 124	
1,2-Dichloropropane	25.0	24.2	97	76 - 120	
1,3,5-Trimethylbenzene	25.0	24.6	98	77 - 121	
1,3-Dichlorobenzene	25.0	23.7	95	77 - 120	
1,3-Dichloropropane	25.0	24.5	98	75 - 120	
1,4-Dichlorobenzene	25.0	23.7	95	80 - 120	
1,4-Dioxane	500	547	109	50 - 150	
2,2-Dichloropropane	25.0	26.5	106	63 - 136	
2-Butanone (MEK)	125	119	95	57 - 140	
2-Chloroethyl vinyl ether	25.0	25.7	103	70 - 129	
2-Hexanone	125	121	97	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	118	95	71 - 125	
Acetone	125	113	91	56 - 142	
Acrolein	125	123	98	52 - 143	
Acrylonitrile	250	227	91	63 - 125	
Benzene	25.0	24.4	97	71 - 124	
Bromobenzene	25.0	24.2	97	78 - 120	
Bromochloromethane	25.0	23.5	94	72 - 130	
Bromodichloromethane	25.0	25.0	100	80 - 122	
Bromoform	25.0	28.4	114	61 - 132	
Bromomethane	25.0	24.5	98	55 - 144	
Butyl alcohol, tert-	250	251	101	75 - 125	
Carbon disulfide	25.0	25.0	100	59 - 134	
Carbon tetrachloride	25.0	26.2	105	72 - 134	
Chlorobenzene	25.0	24.4	97	80 - 120	
Chloroethane	25.0	23.1	92	69 - 136	
Chloroform	25.0	23.3	93	73 - 127	
Chloromethane	25.0	21.4	86	68 - 124	
cis-1,2-Dichloroethene	25.0	24.0	96	74 - 124	
cis-1,3-Dichloropropene	25.0	25.9	104	74 - 124	

Client: Aspect Consulting

Job Number: 280-93434-1

Lab Control Sample - Batch: 480-342482

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-342482/5	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P22509.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/02/2017 2107	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	02/02/2017 2107				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyclohexane	25.0	24.3	97	59 - 135	
Dibromochloromethane	25.0	26.5	106	75 - 125	
Dibromomethane	25.0	24.8	99	76 - 127	
Dichlorodifluoromethane	25.0	23.9	96	59 - 135	
Dichlorofluoromethane	25.0	23.5	94	76 - 127	
Ethyl ether	25.0	23.7	95	76 - 123	
Ethylbenzene	25.0	24.2	97	77 - 123	
Hexachlorobutadiene	25.0	24.3	97	68 - 131	
Hexane	25.0	25.6	102	54 - 146	
Iodomethane	25.0	24.4	98	78 - 123	
Isobutanol	625	654	105	51 - 150	
Isopropylbenzene	25.0	24.6	98	77 - 122	
Methyl acetate	125	116	93	74 - 133	
Methyl tert-butyl ether	25.0	24.3	97	77 - 120	
Methylcyclohexane	25.0	25.8	103	68 - 134	
Methylene Chloride	25.0	30.7	123	75 - 124	
m-Xylene & p-Xylene	25.0	24.9	100	76 - 122	
Naphthalene	25.0	24.3	97	66 - 125	
n-Butylbenzene	25.0	24.1	97	71 - 128	
N-Propylbenzene	25.0	23.9	96	75 - 127	
o-Chlorotoluene	25.0	24.4	98	76 - 121	
o-Xylene	25.0	24.2	97	76 - 122	
p-Chlorotoluene	25.0	24.6	99	77 - 121	
p-Cymene	25.0	24.5	98	73 - 120	
sec-Butylbenzene	25.0	24.6	98	74 - 127	
Styrene	25.0	25.2	101	80 - 120	
tert-Butylbenzene	25.0	24.6	99	75 - 123	
Tetrachloroethene	25.0	25.3	101	74 - 122	
Tetrahydrofuran	50.0	46.6	93	62 - 132	
Toluene	25.0	24.5	98	80 - 122	
trans-1,2-Dichloroethene	25.0	24.4	98	73 - 127	
trans-1,3-Dichloropropene	25.0	25.6	103	80 - 120	
trans-1,4-Dichloro-2-butene	25.0	25.5	102	41 - 131	
Trichloroethene	25.0	24.6	98	74 - 123	
Trichlorofluoromethane	25.0	24.1	96	62 - 150	
Vinyl acetate	50.0	50.7	101	50 - 144	
Vinyl chloride	25.0	22.8	91	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	77 - 120
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	100	80 - 120

Client: Aspect Consulting Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-342482

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-112986-B-1 MS	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P22529.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0613			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0613				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-112986-B-1 MSD	Analysis Batch:	480-342482	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P22530.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	02/03/2017 0640			Final Weight/Volume:	5 mL
Prep Date:	02/03/2017 0640				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	88	89	71 - 124	2	13		
Ethylbenzene	100	104	77 - 123	3	15		
m-Xylene & p-Xylene	102	106	76 - 122	3	16		
o-Xylene	99	103	76 - 122	4	16		
Toluene	101	104	80 - 122	3	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	93	77 - 120
4-Bromofluorobenzene (Surr)	102	101	73 - 120
Toluene-d8 (Surr)	99	100	80 - 120

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-342482

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-112986-B-1 MS	Units: ug/L		MSD Lab Sample ID:	480-112986-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	10			Dilution:	10
Analysis Date:	02/03/2017 0613			Analysis Date:	02/03/2017 0640
Prep Date:	02/03/2017 0613			Prep Date:	02/03/2017 0640
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	250	250	220	224
Ethylbenzene	ND	250	250	250	259
m-Xylene & p-Xylene	ND	250	250	256	264
o-Xylene	ND	250	250	248	257
Toluene	ND	250	250	251	259

Method Blank - Batch: 480-342379

Method: 8260C SIM
Preparation: 5030C

Lab Sample ID:	MB 480-342379/8	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J2042.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1216	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1216				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Vinyl chloride	ND		0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	102	50 - 150
TBA-d9 (Surr)	89	50 - 150

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-342379

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-342379/5	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J2039.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1103	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1103				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-342379/6	Analysis Batch:	480-342379	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J2040.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	02/02/2017 1127	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	02/02/2017 1127				25 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	104	106	50 - 150	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	104	102	50 - 150
TBA-d9 (Surr)	94	96	50 - 150

Client: Aspect Consulting

Job Number: 280-93434-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-342379

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-342379/5	Units: ug/L		LCSD Lab Sample ID:	LCSD 480-342379/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/02/2017 1103			Analysis Date:	02/02/2017 1127
Prep Date:	02/02/2017 1103			Prep Date:	02/02/2017 1127
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Vinyl chloride	0.200	0.200	0.208	0.212

Client: Aspect Consulting Job Number: 280-93434-1

Method Blank - Batch: 280-360693

Method: 6020
Preparation: 3005A
Dissolved

Lab Sample ID:	MB 280-360579/1-B	Analysis Batch:	280-360985	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-360693	Lab File ID:	125_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2315	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Manganese	ND		1.0

Lab Control Sample - Batch: 280-360693

Method: 6020
Preparation: 3005A
Dissolved

Lab Sample ID:	LCS 280-360579/2-B	Analysis Batch:	280-360985	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-360693	Lab File ID:	126_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	02/02/2017 2319	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Manganese	40.0	38.9	97	85 - 117	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360693

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-93434-11	Analysis Batch:	280-360985	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-360693	Lab File ID:	142SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	02/03/2017 0020			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-11	Analysis Batch:	280-360985	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-360693	Lab File ID:	143SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	02/03/2017 0024			Final Weight/Volume:	50 mL
Prep Date:	02/02/2017 1445				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Manganese	100	98	85 - 117	1	20		

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360693

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-93434-11	Units: ug/L	MSD Lab Sample ID:	280-93434-11	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	02/03/2017 0020		Analysis Date:	02/03/2017 0024	
Prep Date:	02/02/2017 1445		Prep Date:	02/02/2017 1445	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Manganese	1.9	40.0	40.0	41.7	41.1

Client: Aspect Consulting

Job Number: 280-93434-1

Method Blank - Batch: 280-360356

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-360356/6	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1036	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Nitrate	ND		0.50
Nitrite	ND		0.50

Method Blank - Batch: 280-360356

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-360366/3-A	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0019.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1629	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Orthophosphate as P-Dissolved	ND		0.50

Method Reporting Limit Check - Batch: 280-360356

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-360356/3	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0936	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate	0.200	ND	103	50 - 150	
Orthophosphate as P	0.200	ND	71	50 - 150	
Nitrite	0.200	ND	109	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360356/4	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0956	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-360356/5	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1016	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate	99	99	90 - 110	0	10		
Nitrite	99	99	90 - 110	0	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360366/1-A	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0017.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1549	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-360366/2-A	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0018.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1609	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Orthophosphate as P-Dissolved	102	103	90 - 110	1	10		

Client: Aspect Consulting

Job Number: 280-93434-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360356/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-360356/5
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	01/28/2017 0956		Analysis Date:	01/28/2017 1016
Prep Date:	N/A		Prep Date:	N/A
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate	5.00	5.00	4.95	4.95
Nitrite	5.00	5.00	4.94	4.94

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360366/1-A	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-360366/2-A
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	01/28/2017 1549		Analysis Date:	01/28/2017 1609
Prep Date:	N/A		Prep Date:	N/A
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Orthophosphate as P-Dissolved	5.00	5.00	5.10	5.14

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-1	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0009.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1309			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-1	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0010.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1329			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate	101	100	80 - 120	1	20		
Nitrite	98	97	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-1	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0022.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1728			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-1	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0023.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1748			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Orthophosphate as P-Dissolved	187	194	80 - 120	4	20	F1	F1

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-7	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0033.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 2107			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-7	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0034.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 2127			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Orthophosphate as P-Dissolved	167	169	80 - 120	2	20	F1	F1

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-1	Units: mg/L		MSD Lab Sample ID:	280-93434-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2017 1309			Analysis Date:	01/28/2017 1329
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate	0.56	5.00	5.00	5.59	5.56
Nitrite	ND	5.00	5.00	4.88	4.86

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-1	Units: mg/L		MSD Lab Sample ID:	280-93434-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2017 1728			Analysis Date:	01/28/2017 1748
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Orthophosphate as P-Dissolved	ND	5.00	5.00	9.33	F1	9.72	F1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360356

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-7	Units: mg/L		MSD Lab Sample ID:	280-93434-7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2017 2107			Analysis Date:	01/28/2017 2127
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Orthophosphate as P-Dissolved	ND	5.00	5.00	8.34	F1	8.47	F1

Client: Aspect Consulting

Job Number: 280-93434-1

Duplicate - Batch: 280-360356

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-1	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0008.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1250	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate	0.56	0.567	2	15	
Nitrite	ND	ND	NC	15	

Duplicate - Batch: 280-360356

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-1	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0021.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1708	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Orthophosphate as P-Dissolved	ND	ND	NC	15	

Duplicate - Batch: 280-360356

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-7	Analysis Batch:	280-360356	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0032.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 2047	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Orthophosphate as P-Dissolved	ND	ND	NC	15	

Client: Aspect Consulting

Job Number: 280-93434-1

Method Blank - Batch: 280-360357

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-360357/6	Analysis Batch:	280-360357	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1036	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Chloride	ND		1.0
Sulfate	ND		1.0

Method Reporting Limit Check - Batch: 280-360357

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-360357/3	Analysis Batch:	280-360357	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0936	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	ND	95	50 - 150	
Sulfate	2.50	ND	97	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-360357

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360357/4	Analysis Batch:	280-360357	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0956	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-360357/5	Analysis Batch:	280-360357	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1016	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	97	97	90 - 110	0	10		
Sulfate	96	97	90 - 110	0	10		

Client: Aspect Consulting

Job Number: 280-93434-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-360357

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360357/4	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	01/28/2017 0956		
Prep Date:	N/A		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-360357/5
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	01/28/2017 1016
Prep Date:	N/A
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	100	100	97.2	97.4
Sulfate	100	100	96.4	96.7

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360357

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-1	Analysis Batch:	280-360357	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0009.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1309			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-1	Analysis Batch:	280-360357	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0010.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1329			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	83	82	80 - 120	0	20		
Sulfate	90	89	80 - 120	1	20		

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360357

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-1	Units: mg/L	MSD Lab Sample ID:	280-93434-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	01/28/2017 1309		Analysis Date:	01/28/2017 1329	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	2.0	25.0	25.0	22.7	22.6
Sulfate	4.3	25.0	25.0	26.8	26.6

Duplicate - Batch: 280-360357

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-1	Analysis Batch:	280-360357	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0008.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1250	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	2.0	2.03	0.9	15	
Sulfate	4.3	4.29	0.3	15	

Client: Aspect Consulting Job Number: 280-93434-1

Method Blank - Batch: 280-360358

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-360358/6	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	06.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1026	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Nitrate	ND		0.50
Nitrite	ND		0.50

Method Reporting Limit Check - Batch: 280-360358

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-360358/3	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0933	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate	0.200	ND	107	50 - 150	
Nitrite	0.200	ND	95	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-360358

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360358/4	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0951	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-360358/5	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	05.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1009	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate	100	100	90 - 110	0	10		
Nitrite	108	108	90 - 110	0	10		

Client: Aspect Consulting

Job Number: 280-93434-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-360358

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360358/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-360358/5
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	01/28/2017 0951		Analysis Date:	01/28/2017 1009
Prep Date:	N/A		Prep Date:	N/A
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate	5.00	5.00	5.02	5.02
Nitrite	5.00	5.00	5.41	5.41

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360358

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-6	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	14.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1539			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-6	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	15.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1557			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate	102	104	80 - 120	1	20		
Nitrite	107	109	80 - 120	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360358

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-8	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	21.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1743			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-8	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	22.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1801			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate	102	102	80 - 120	0	20		
Nitrite	108	108	80 - 120	0	20		

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360358

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-6	Units: mg/L		MSD Lab Sample ID:	280-93434-6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2017 1539			Analysis Date:	01/28/2017 1557
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate	ND	5.00	5.00	5.20	5.26
Nitrite	ND	5.00	5.00	5.36	5.45

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360358

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-8	Units: mg/L		MSD Lab Sample ID:	280-93434-8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2017 1743			Analysis Date:	01/28/2017 1801
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate	1.6	5.00	5.00	6.75	6.76
Nitrite	ND	5.00	5.00	5.41	5.39

Client: Aspect Consulting

Job Number: 280-93434-1

Duplicate - Batch: 280-360358

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-6	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	13.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1521	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate	ND	ND	NC	15	
Nitrite	ND	ND	NC	15	

Duplicate - Batch: 280-360358

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-8	Analysis Batch:	280-360358	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	20.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1725	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate	1.6	1.64	0.3	15	
Nitrite	ND	ND	NC	15	

Client: Aspect Consulting Job Number: 280-93434-1

Method Blank - Batch: 280-360359

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-360359/6	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	06.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1026	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Chloride	ND		1.0
Sulfate	ND		1.0

Method Reporting Limit Check - Batch: 280-360359

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-360359/3	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0933	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	ND	104	50 - 150	
Sulfate	2.50	ND	105	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-360359

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360359/4	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 0951	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-360359/5	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	05.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1009	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	102	102	90 - 110	0	10		
Sulfate	103	102	90 - 110	0	10		

Client: Aspect Consulting

Job Number: 280-93434-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-360359

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360359/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-360359/5
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	01/28/2017 0951		Analysis Date:	01/28/2017 1009
Prep Date:	N/A		Prep Date:	N/A
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	100	100	102	102
Sulfate	100	100	103	102

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360359

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-6	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	14.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1539			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-6	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	15.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1557			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	106	107	80 - 120	1	20		
Sulfate	106	107	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360359

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-8	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	21.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1743			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-8	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	22.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1801			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	106	106	80 - 120	0	20		
Sulfate	106	107	80 - 120	1	20		

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360359

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-6	Units: mg/L		MSD Lab Sample ID:	280-93434-6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2017 1539			Analysis Date:	01/28/2017 1557
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	6.5	25.0	25.0	33.0	33.3
Sulfate	18	25.0	25.0	44.6	44.8

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360359

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-93434-8	Units: mg/L		MSD Lab Sample ID:	280-93434-8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2017 1743			Analysis Date:	01/28/2017 1801
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	4.6	25.0	25.0	31.1	31.1
Sulfate	11	25.0	25.0	37.3	37.6

Client: Aspect Consulting

Job Number: 280-93434-1

Duplicate - Batch: 280-360359

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-6	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	13.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1521	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	6.5	6.53	0	15	
Sulfate	18	17.8	2	15	

Duplicate - Batch: 280-360359

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-93434-8	Analysis Batch:	280-360359	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	20.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/28/2017 1725	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	4.6	4.57	0.2	15	
Sulfate	11	10.9	0.5	15	

Client: Aspect Consulting

Job Number: 280-93434-1

Method Blank - Batch: 280-360605

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-360605/61	Analysis Batch:	280-360605	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\013117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/31/2017 1412	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Ammonia as N	ND		0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-360605

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360605/59	Analysis Batch:	280-360605	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\013117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/31/2017 1408	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-360605/60	Analysis Batch:	280-360605	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\013117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/31/2017 1410	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia as N	106	107	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-360605

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360605/59	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	01/31/2017 1408		
Prep Date:	N/A		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-360605/60
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	01/31/2017 1410
Prep Date:	N/A
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia as N	2.50	2.50	2.65	2.68

Method Blank - Batch: 280-360795

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-360795/109	Analysis Batch:	280-360795	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\020117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/01/2017 1702	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Ammonia as N	ND		0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-360795

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360795/107	Analysis Batch:	280-360795	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\020117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	02/01/2017 1658	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-360795/108	Analysis Batch:	280-360795	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\020117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	02/01/2017 1700	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia as N	96	102	90 - 110	6	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-360795

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-360795/107	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-360795/108
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/01/2017 1658			Analysis Date:	02/01/2017 1700
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia as N	2.50	2.50	2.41	2.55

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360795

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-93407-O-7 MS	Analysis Batch:	280-360795	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\020117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	02/01/2017 1706			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-93407-O-7 MSD	Analysis Batch:	280-360795	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\020117.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	02/01/2017 1708			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia as N	113	110	90 - 110	2	10	F1	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360795

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-93407-O-7 MS	Units: mg/L		MSD Lab Sample ID:	280-93407-O-7 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/01/2017 1706			Analysis Date:	02/01/2017 1708
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Ammonia as N	0.46	1.00	1.00	1.60	F1	1.56

Client: Aspect Consulting

Job Number: 280-93434-1

Method Blank - Batch: 280-360647

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-360647/31	Analysis Batch:	280-360647	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	013117 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/31/2017 1658	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Total Alkalinity	ND		5.0
Bicarbonate Alkalinity	ND		5.0
Carbonate Alkalinity	ND		5.0

Lab Control Sample - Batch: 280-360647

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-360647/30	Analysis Batch:	280-360647	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	013117 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/31/2017 1653	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Alkalinity	200	198	99	90 - 110	

Duplicate - Batch: 280-360647

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-93383-C-11 DU	Analysis Batch:	280-360647	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	013117 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/31/2017 1712	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	550	558	1	10	

Client: Aspect Consulting

Job Number: 280-93434-1

Method Blank - Batch: 280-360740

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-360740/5	Analysis Batch:	280-360740	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	020117 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/01/2017 1200	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Total Alkalinity	ND		5.0
Bicarbonate Alkalinity	ND		5.0
Carbonate Alkalinity	ND		5.0

Lab Control Sample - Batch: 280-360740

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-360740/4	Analysis Batch:	280-360740	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	020117 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/01/2017 1156	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Alkalinity	200	200	100	90 - 110	

Duplicate - Batch: 280-360740

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-93349-F-1 DU	Analysis Batch:	280-360740	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	020117 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/01/2017 1209	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	270	270	0.5	10	

Method Blank - Batch: 280-360836 **Method: SM 5310B**
Preparation: N/A

Lab Sample ID:	MB 280-360836/36	Analysis Batch:	280-360836	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	020117.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/01/2017 2209	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Total Organic Carbon - Average	ND		1.0

Lab Control Sample - Batch: 280-360836 **Method: SM 5310B**
Preparation: N/A

Lab Sample ID:	LCS 280-360836/35	Analysis Batch:	280-360836	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	020117.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/01/2017 2154	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon - Average	25.0	25.5	102	88 - 112	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360836 **Method: SM 5310B**
Preparation: N/A

MS Lab Sample ID:	280-93434-3	Analysis Batch:	280-360836	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	020117.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/01/2017 2352			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-93434-3	Analysis Batch:	280-360836	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	020117.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/02/2017 0007			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	101	101	88 - 112	0	15		

Client: Aspect Consulting

Job Number: 280-93434-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-360836

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-93434-3	Units: mg/L	MSD Lab Sample ID:	280-93434-3	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	02/01/2017 2352		Analysis Date:	02/02/2017 0007	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	ND	25.0	25.0	26.1	26.1

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-1 **Client ID: MW-7**

Sample Date/Time: 01/25/2017 11:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-1		480-342482		02/02/2017 23:24	1	TAL BUF	RJF
A:8260C	280-93434-E-1		480-342482		02/02/2017 23:24	1	TAL BUF	RJF
P:5030C	280-93434-E-1		480-342379		02/02/2017 12:48	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-1		480-342379		02/02/2017 12:48	1	TAL BUF	JWG
P:3005A	280-93434-C-1-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-1-B		280-360985	280-360693	02/02/2017 23:23	1	TAL DEN	JM
A:300.0	280-93434-A-1		280-360356		01/28/2017 12:30	1	TAL DEN	TLP
A:300.0	280-93434-A-1		280-360357		01/28/2017 12:30	1	TAL DEN	TLP
A:300.0	280-93434-D-1-A		280-360356		01/28/2017 16:49	1	TAL DEN	TLP
A:350.1	280-93434-B-1		280-360605		01/31/2017 15:18	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-1		280-360647		01/31/2017 17:30	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-1		280-360836		02/01/2017 22:38	1	TAL DEN	CCJ

Lab ID: 280-93434-1 MS **Client ID: MW-7**

Sample Date/Time: 01/25/2017 11:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-1 MS		280-360356		01/28/2017 13:09	1	TAL DEN	TLP
A:300.0	280-93434-A-1 MS		280-360357		01/28/2017 13:09	1	TAL DEN	TLP
A:300.0	280-93434-D-1-C MS		280-360356		01/28/2017 17:28	1	TAL DEN	TLP

Lab ID: 280-93434-1 MSD **Client ID: MW-7**

Sample Date/Time: 01/25/2017 11:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-1 MSD		280-360356		01/28/2017 13:29	1	TAL DEN	TLP
A:300.0	280-93434-A-1 MSD		280-360357		01/28/2017 13:29	1	TAL DEN	TLP
A:300.0	280-93434-D-1-D MSD		280-360356		01/28/2017 17:48	1	TAL DEN	TLP

Lab ID: 280-93434-1 DU **Client ID: MW-7**

Sample Date/Time: 01/25/2017 11:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-1 DU		280-360356		01/28/2017 12:50	1	TAL DEN	TLP
A:300.0	280-93434-A-1 DU		280-360357		01/28/2017 12:50	1	TAL DEN	TLP
A:300.0	280-93434-D-1-B DU		280-360356		01/28/2017 17:08	1	TAL DEN	TLP

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-2 **Client ID: MW-5**

Sample Date/Time: 01/25/2017 13:15 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-2		480-342482		02/02/2017 23:51	1	TAL BUF	RJF
A:8260C	280-93434-E-2		480-342482		02/02/2017 23:51	1	TAL BUF	RJF
P:5030C	280-93434-E-2		480-342379		02/02/2017 13:13	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-2		480-342379		02/02/2017 13:13	1	TAL BUF	JWG
P:3005A	280-93434-C-2-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-2-B		280-360985	280-360693	02/02/2017 23:27	1	TAL DEN	JM
A:300.0	280-93434-A-2		280-360356		01/28/2017 13:49	1	TAL DEN	TLP
A:300.0	280-93434-A-2		280-360357		01/28/2017 13:49	1	TAL DEN	TLP
A:300.0	280-93434-D-2-A		280-360356		01/28/2017 18:08	1	TAL DEN	TLP
A:350.1	280-93434-B-2		280-360605		01/31/2017 15:20	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-2		280-360647		01/31/2017 17:35	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-2		280-360836		02/01/2017 22:53	1	TAL DEN	CCJ

Lab ID: 280-93434-3 **Client ID: MW-14**

Sample Date/Time: 01/25/2017 14:30 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-3		480-342482		02/03/2017 00:18	1	TAL BUF	RJF
A:8260C	280-93434-E-3		480-342482		02/03/2017 00:18	1	TAL BUF	RJF
P:5030C	280-93434-E-3		480-342379		02/02/2017 13:37	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-3		480-342379		02/02/2017 13:37	1	TAL BUF	JWG
P:3005A	280-93434-C-3-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-3-B		280-360985	280-360693	02/02/2017 23:31	1	TAL DEN	JM
A:300.0	280-93434-A-3		280-360356		01/28/2017 14:09	1	TAL DEN	TLP
A:300.0	280-93434-A-3		280-360357		01/28/2017 14:09	1	TAL DEN	TLP
A:300.0	280-93434-D-3-A		280-360356		01/28/2017 18:28	1	TAL DEN	TLP
A:350.1	280-93434-B-3		280-360605		01/31/2017 15:22	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-3		280-360647		01/31/2017 17:40	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-3		280-360836		02/01/2017 23:37	1	TAL DEN	CCJ

Lab ID: 280-93434-3 MS **Client ID: MW-14**

Sample Date/Time: 01/25/2017 14:30 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 5310B	280-93434-B-3 MS		280-360836		02/01/2017 23:52	1	TAL DEN	CCJ

Lab ID: 280-93434-3 MSD **Client ID: MW-14**

Sample Date/Time: 01/25/2017 14:30 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 5310B	280-93434-B-3 MSD		280-360836		02/02/2017 00:07	1	TAL DEN	CCJ

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-4 **Client ID: MW-6**

Sample Date/Time: 01/25/2017 15:50 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-4		480-342482		02/03/2017 00:45	1	TAL BUF	RJF
A:8260C	280-93434-E-4		480-342482		02/03/2017 00:45	1	TAL BUF	RJF
P:5030C	280-93434-E-4		480-342379		02/02/2017 14:01	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-4		480-342379		02/02/2017 14:01	1	TAL BUF	JWG
P:3005A	280-93434-C-4-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-4-B		280-360985	280-360693	02/02/2017 23:34	1	TAL DEN	JM
A:300.0	280-93434-A-4		280-360356		01/28/2017 14:29	1	TAL DEN	TLP
A:300.0	280-93434-A-4		280-360357		01/28/2017 14:29	1	TAL DEN	TLP
A:300.0	280-93434-D-4-A		280-360356		01/28/2017 18:48	1	TAL DEN	TLP
A:350.1	280-93434-B-4		280-360605		01/31/2017 15:24	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-4		280-360647		01/31/2017 17:46	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-4		280-360836		02/02/2017 00:22	1	TAL DEN	CCJ

Lab ID: 280-93434-5 **Client ID: MW-12I**

Sample Date/Time: 01/25/2017 16:50 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-5		480-342482		02/03/2017 01:13	1	TAL BUF	RJF
A:8260C	280-93434-E-5		480-342482		02/03/2017 01:13	1	TAL BUF	RJF
P:5030C	280-93434-E-5		480-342379		02/02/2017 14:26	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-5		480-342379		02/02/2017 14:26	1	TAL BUF	JWG
P:3005A	280-93434-C-5-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-5-B		280-360985	280-360693	02/02/2017 23:38	1	TAL DEN	JM
A:300.0	280-93434-A-5		280-360356		01/28/2017 14:49	1	TAL DEN	TLP
A:300.0	280-93434-A-5		280-360357		01/28/2017 14:49	1	TAL DEN	TLP
A:300.0	280-93434-D-5-A		280-360356		01/28/2017 19:48	1	TAL DEN	TLP
A:350.1	280-93434-B-5		280-360605		01/31/2017 15:26	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-5		280-360647		01/31/2017 17:51	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-5		280-360836		02/02/2017 00:36	1	TAL DEN	CCJ

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-6 **Client ID: MW-50I**

Sample Date/Time: 01/25/2017 00:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-6		480-342482		02/03/2017 01:40	1	TAL BUF	RJF
A:8260C	280-93434-E-6		480-342482		02/03/2017 01:40	1	TAL BUF	RJF
P:5030C	280-93434-E-6		480-342379		02/02/2017 14:50	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-6		480-342379		02/02/2017 14:50	1	TAL BUF	JWG
P:3005A	280-93434-C-6-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-6-B		280-360985	280-360693	02/02/2017 23:42	1	TAL DEN	JM
A:300.0	280-93434-A-6		280-360358		01/28/2017 15:04	1	TAL DEN	TLP
A:300.0	280-93434-A-6		280-360359		01/28/2017 15:04	1	TAL DEN	TLP
A:300.0	280-93434-D-6-A		280-360356		01/28/2017 20:08	1	TAL DEN	TLP
A:350.1	280-93434-B-6		280-360795		02/01/2017 17:30	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-6		280-360647		01/31/2017 17:57	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-6		280-360836		02/02/2017 00:51	1	TAL DEN	CCJ

Lab ID: 280-93434-6 MS **Client ID: MW-50I**

Sample Date/Time: 01/25/2017 00:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-6 MS		280-360358		01/28/2017 15:39	1	TAL DEN	TLP
A:300.0	280-93434-A-6 MS		280-360359		01/28/2017 15:39	1	TAL DEN	TLP

Lab ID: 280-93434-6 MSD **Client ID: MW-50I**

Sample Date/Time: 01/25/2017 00:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-6 MSD		280-360358		01/28/2017 15:57	1	TAL DEN	TLP
A:300.0	280-93434-A-6 MSD		280-360359		01/28/2017 15:57	1	TAL DEN	TLP

Lab ID: 280-93434-6 DU **Client ID: MW-50I**

Sample Date/Time: 01/25/2017 00:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-6 DU		280-360358		01/28/2017 15:21	1	TAL DEN	TLP
A:300.0	280-93434-A-6 DU		280-360359		01/28/2017 15:21	1	TAL DEN	TLP

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-7 **Client ID: MW-13D**

Sample Date/Time: 01/25/2017 12:10 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-7		480-342482		02/03/2017 02:07	1	TAL BUF	RJF
A:8260C	280-93434-E-7		480-342482		02/03/2017 02:07	1	TAL BUF	RJF
P:5030C	280-93434-E-7		480-342379		02/02/2017 15:15	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-7		480-342379		02/02/2017 15:15	1	TAL BUF	JWG
P:3005A	280-93434-C-7-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-7-B		280-360985	280-360693	02/02/2017 23:46	1	TAL DEN	JM
A:300.0	280-93434-A-7		280-360358		01/28/2017 16:14	1	TAL DEN	TLP
A:300.0	280-93434-A-7		280-360359		01/28/2017 16:14	1	TAL DEN	TLP
A:300.0	280-93434-D-7-A		280-360356		01/28/2017 20:28	1	TAL DEN	TLP
A:350.1	280-93434-B-7		280-360795		02/01/2017 17:32	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-7		280-360647		01/31/2017 18:13	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-7		280-360836		02/02/2017 01:06	1	TAL DEN	CCJ

Lab ID: 280-93434-7 MS **Client ID: MW-13D**

Sample Date/Time: 01/25/2017 12:10 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-D-7-C MS		280-360356		01/28/2017 21:07	1	TAL DEN	TLP

Lab ID: 280-93434-7 MSD **Client ID: MW-13D**

Sample Date/Time: 01/25/2017 12:10 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-D-7-D MSD		280-360356		01/28/2017 21:27	1	TAL DEN	TLP

Lab ID: 280-93434-7 DU **Client ID: MW-13D**

Sample Date/Time: 01/25/2017 12:10 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-D-7-B DU		280-360356		01/28/2017 20:47	1	TAL DEN	TLP

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-8 **Client ID: SW-1**

Sample Date/Time: 01/26/2017 08:30 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-8		480-342482		02/03/2017 02:34	1	TAL BUF	RJF
A:8260C	280-93434-E-8		480-342482		02/03/2017 02:34	1	TAL BUF	RJF
P:5030C	280-93434-E-8		480-342379		02/02/2017 15:39	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-8		480-342379		02/02/2017 15:39	1	TAL BUF	JWG
P:3005A	280-93434-C-8-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-8-B		280-360985	280-360693	02/03/2017 00:01	1	TAL DEN	JM
A:300.0	280-93434-A-8		280-360358		01/28/2017 17:08	1	TAL DEN	TLP
A:300.0	280-93434-A-8		280-360359		01/28/2017 17:08	1	TAL DEN	TLP
A:300.0	280-93434-D-8-A		280-360356		01/28/2017 21:47	1	TAL DEN	TLP
A:350.1	280-93434-B-8		280-360795		02/01/2017 17:34	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-8		280-360740		02/01/2017 13:08	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-8		280-360836		02/02/2017 01:20	1	TAL DEN	CCJ

Lab ID: 280-93434-8 MS **Client ID: SW-1**

Sample Date/Time: 01/26/2017 08:30 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-8 MS		280-360358		01/28/2017 17:43	1	TAL DEN	TLP
A:300.0	280-93434-A-8 MS		280-360359		01/28/2017 17:43	1	TAL DEN	TLP

Lab ID: 280-93434-8 MSD **Client ID: SW-1**

Sample Date/Time: 01/26/2017 08:30 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-8 MSD		280-360358		01/28/2017 18:01	1	TAL DEN	TLP
A:300.0	280-93434-A-8 MSD		280-360359		01/28/2017 18:01	1	TAL DEN	TLP

Lab ID: 280-93434-8 DU **Client ID: SW-1**

Sample Date/Time: 01/26/2017 08:30 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-93434-A-8 DU		280-360358		01/28/2017 17:25	1	TAL DEN	TLP
A:300.0	280-93434-A-8 DU		280-360359		01/28/2017 17:25	1	TAL DEN	TLP

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-9 **Client ID: SW-4**

Sample Date/Time: 01/26/2017 09:15 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-9		480-342482		02/03/2017 03:02	1	TAL BUF	RJF
A:8260C	280-93434-E-9		480-342482		02/03/2017 03:02	1	TAL BUF	RJF
P:5030C	280-93434-E-9		480-342379		02/02/2017 16:03	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-9		480-342379		02/02/2017 16:03	1	TAL BUF	JWG
P:3005A	280-93434-C-9-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-9-B		280-360985	280-360693	02/03/2017 00:05	1	TAL DEN	JM
A:300.0	280-93434-A-9		280-360358		01/28/2017 18:18	1	TAL DEN	TLP
A:300.0	280-93434-A-9		280-360359		01/28/2017 18:18	1	TAL DEN	TLP
A:300.0	280-93434-D-9-A		280-360356		01/28/2017 22:07	1	TAL DEN	TLP
A:350.1	280-93434-B-9		280-360795		02/01/2017 17:36	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-9		280-360740		02/01/2017 13:12	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-9		280-360836		02/02/2017 01:35	1	TAL DEN	CCJ

Lab ID: 280-93434-10 **Client ID: SW-6**

Sample Date/Time: 01/26/2017 10:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-10		480-342482		02/03/2017 03:29	1	TAL BUF	RJF
A:8260C	280-93434-E-10		480-342482		02/03/2017 03:29	1	TAL BUF	RJF
P:5030C	280-93434-E-10		480-342379		02/02/2017 16:27	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-10		480-342379		02/02/2017 16:27	1	TAL BUF	JWG
P:3005A	280-93434-C-10-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-10-B		280-360985	280-360693	02/03/2017 00:09	1	TAL DEN	JM
A:300.0	280-93434-A-10		280-360358		01/28/2017 18:36	1	TAL DEN	TLP
A:300.0	280-93434-A-10		280-360359		01/28/2017 18:36	1	TAL DEN	TLP
A:300.0	280-93434-D-10-A		280-360356		01/28/2017 22:27	1	TAL DEN	TLP
A:350.1	280-93434-B-10		280-360795		02/01/2017 17:38	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-10		280-360740		02/01/2017 13:17	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-10		280-360836		02/02/2017 01:52	1	TAL DEN	CCJ

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: 280-93434-11 **Client ID: SW-7**

Sample Date/Time: 01/26/2017 11:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-E-11		480-342482		02/03/2017 03:56	1	TAL BUF	RJF
A:8260C	280-93434-E-11		480-342482		02/03/2017 03:56	1	TAL BUF	RJF
P:5030C	280-93434-E-11		480-342379		02/02/2017 16:52	1	TAL BUF	JWG
A:8260C SIM	280-93434-E-11		480-342379		02/02/2017 16:52	1	TAL BUF	JWG
P:3005A	280-93434-C-11-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-11-B		280-360985	280-360693	02/03/2017 00:13	1	TAL DEN	JM
A:300.0	280-93434-A-11		280-360358		01/28/2017 18:54	1	TAL DEN	TLP
A:300.0	280-93434-A-11		280-360359		01/28/2017 18:54	1	TAL DEN	TLP
A:300.0	280-93434-D-11-A		280-360356		01/28/2017 22:47	1	TAL DEN	TLP
A:350.1	280-93434-B-11		280-360795		02/01/2017 17:40	1	TAL DEN	MAS
A:SM 2320B	280-93434-A-11		280-360740		02/01/2017 13:22	1	TAL DEN	MMC
A:SM 5310B	280-93434-B-11		280-360836		02/02/2017 02:37	1	TAL DEN	CCJ

Lab ID: 280-93434-11 MS **Client ID: SW-7**

Sample Date/Time: 01/26/2017 11:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-93434-C-11-C MS		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-11-C MS		280-360985	280-360693	02/03/2017 00:20	1	TAL DEN	JM

Lab ID: 280-93434-11 MSD **Client ID: SW-7**

Sample Date/Time: 01/26/2017 11:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-93434-C-11-D MSD		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	280-93434-C-11-D MSD		280-360985	280-360693	02/03/2017 00:24	1	TAL DEN	JM

Lab ID: 280-93434-12 **Client ID: TRIP BLANK**

Sample Date/Time: 01/26/2017 00:00 Received Date/Time: 01/28/2017 08:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-93434-A-12		480-342379		02/02/2017 17:16	1	TAL BUF	JWG
A:8260C SIM	280-93434-A-12		480-342379		02/02/2017 17:16	1	TAL BUF	JWG

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-342482/7		480-342482		02/02/2017 22:02	1	TAL BUF	RJF
A:8260C	MB 480-342482/7		480-342482		02/02/2017 22:02	1	TAL BUF	RJF
P:5030C	MB 480-342379/8		480-342379		02/02/2017 12:16	1	TAL BUF	JWG
A:8260C SIM	MB 480-342379/8		480-342379		02/02/2017 12:16	1	TAL BUF	JWG
P:3005A	MB 280-360579/1-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	MB 280-360579/1-B		280-360985	280-360693	02/02/2017 23:15	1	TAL DEN	JM
A:300.0	MB 280-360358/6		280-360358		01/28/2017 10:26	1	TAL DEN	TLP
A:300.0	MB 280-360359/6		280-360359		01/28/2017 10:26	1	TAL DEN	TLP
A:300.0	MB 280-360356/6		280-360356		01/28/2017 10:36	1	TAL DEN	TLP
A:300.0	MB 280-360357/6		280-360357		01/28/2017 10:36	1	TAL DEN	TLP
A:300.0	MB 280-360366/3-A		280-360356		01/28/2017 16:29	1	TAL DEN	TLP
A:350.1	MB 280-360605/61		280-360605		01/31/2017 14:12	1	TAL DEN	MAS
A:350.1	MB 280-360795/109		280-360795		02/01/2017 17:02	1	TAL DEN	MAS
A:SM 2320B	MB 280-360647/31		280-360647		01/31/2017 16:58	1	TAL DEN	MMC
A:SM 2320B	MB 280-360740/5		280-360740		02/01/2017 12:00	1	TAL DEN	MMC
A:SM 5310B	MB 280-360836/36		280-360836		02/01/2017 22:09	1	TAL DEN	CCJ

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-342482/5		480-342482		02/02/2017 21:07	1	TAL BUF	RJF
A:8260C	LCS 480-342482/5		480-342482		02/02/2017 21:07	1	TAL BUF	RJF
P:5030C	LCS 480-342379/5		480-342379		02/02/2017 11:03	1	TAL BUF	JWG
A:8260C SIM	LCS 480-342379/5		480-342379		02/02/2017 11:03	1	TAL BUF	JWG
P:3005A	LCS 280-360579/2-B		280-360985	280-360693	02/02/2017 14:45	1	TAL DEN	SEJ
A:6020	LCS 280-360579/2-B		280-360985	280-360693	02/02/2017 23:19	1	TAL DEN	JM
A:300.0	LCS 280-360358/4		280-360358		01/28/2017 09:51	1	TAL DEN	TLP
A:300.0	LCS 280-360359/4		280-360359		01/28/2017 09:51	1	TAL DEN	TLP
A:300.0	LCS 280-360356/4		280-360356		01/28/2017 09:56	1	TAL DEN	TLP
A:300.0	LCS 280-360357/4		280-360357		01/28/2017 09:56	1	TAL DEN	TLP
A:300.0	LCS 280-360366/1-A		280-360356		01/28/2017 15:49	1	TAL DEN	TLP
A:350.1	LCS 280-360605/59		280-360605		01/31/2017 14:08	1	TAL DEN	MAS
A:350.1	LCS 280-360795/107		280-360795		02/01/2017 16:58	1	TAL DEN	MAS
A:SM 2320B	LCS 280-360647/30		280-360647		01/31/2017 16:53	1	TAL DEN	MMC
A:SM 2320B	LCS 280-360740/4		280-360740		02/01/2017 11:56	1	TAL DEN	MMC
A:SM 5310B	LCS 280-360836/35		280-360836		02/01/2017 21:54	1	TAL DEN	CCJ

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCSD 480-342379/6		480-342379		02/02/2017 11:27	1	TAL BUF	JWG
A:8260C SIM	LCSD 480-342379/6		480-342379		02/02/2017 11:27	1	TAL BUF	JWG
A:300.0	LCSD 280-360358/5		280-360358		01/28/2017 10:09	1	TAL DEN	TLP
A:300.0	LCSD 280-360359/5		280-360359		01/28/2017 10:09	1	TAL DEN	TLP
A:300.0	LCSD 280-360356/5		280-360356		01/28/2017 10:16	1	TAL DEN	TLP
A:300.0	LCSD 280-360357/5		280-360357		01/28/2017 10:16	1	TAL DEN	TLP
A:300.0	LCSD 280-360366/2-A		280-360356		01/28/2017 16:09	1	TAL DEN	TLP
A:350.1	LCSD 280-360605/60		280-360605		01/31/2017 14:10	1	TAL DEN	MAS
A:350.1	LCSD 280-360795/108		280-360795		02/01/2017 17:00	1	TAL DEN	MAS

Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-360358/3		280-360358		01/28/2017 09:33	1	TAL DEN	TLP
A:300.0	MRL 280-360359/3		280-360359		01/28/2017 09:33	1	TAL DEN	TLP
A:300.0	MRL 280-360356/3		280-360356		01/28/2017 09:36	1	TAL DEN	TLP
A:300.0	MRL 280-360357/3		280-360357		01/28/2017 09:36	1	TAL DEN	TLP

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 02/01/2017 08:50 Received Date/Time: 02/02/2017 09:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-112986-B-1 MS		480-342482		02/03/2017 06:13	10	TAL BUF	RJF
A:8260C	480-112986-B-1 MS		480-342482		02/03/2017 06:13	10	TAL BUF	RJF
A:350.1	280-93407-O-7 MS		280-360795		02/01/2017 17:06	1	TAL DEN	MAS

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 02/01/2017 08:50 Received Date/Time: 02/02/2017 09:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-112986-B-1 MSD		480-342482		02/03/2017 06:40	10	TAL BUF	RJF
A:8260C	480-112986-B-1 MSD		480-342482		02/03/2017 06:40	10	TAL BUF	RJF
A:350.1	280-93407-O-7 MSD		280-360795		02/01/2017 17:08	1	TAL DEN	MAS

Client: Aspect Consulting Job Number: 280-93434-1

Laboratory Chronicle

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 01/25/2017 13:12 Received Date/Time: 01/26/2017 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-93383-C-11 DU		280-360647		01/31/2017 17:12	1	TAL DEN	MMC
A:SM 2320B	280-93349-F-1 DU		280-360740		02/01/2017 12:09	1	TAL DEN	MMC

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Analytical Resources, Incorporated
Analytical Chemists and Consultants

23 February 2017

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.

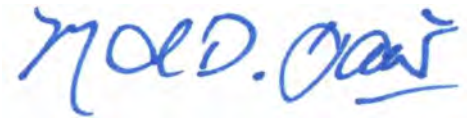
Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
17A0358	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 reqirements 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.



Mark Harris, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006

PJLA Testing
Accreditation # 66169

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

17A0358

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Aaron Pruitt	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-23414-6845.1
Client Contact: Aaron Pruitt	Phone: 206-838-6587	E-Mail: betsy.sara@testamericainc.com		Page: 1/1
Company: Aspect Consulting, LLC				Job #: 160423
Address: 350 Madison Ave N	Due Date Requested:			
City: Bainbridge Island	TAT Requested (days):			
State, Zip: WA, 98110				
Phone: 206-838-6587	PO #: Purchase Order not required			
Email: apruitt@aspectconsulting.com	WO #:			
Project Name: Hansville Landfill	Project #:skip sites/events 28006013 - 1Q Sampling			
Site: Washington	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C SIM - Vinyl Chloride (TA Buffalo)	Dissolved Metals	Ammonia/TOC	Alks/Cl/SO4/NO3/NO3(IC)	Ortho-phosphate (field filtered)	Dissolved Arsenic (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)	Dissolved Arsenic 4z unfiltered, unpreserved					Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	S	N	N	D	A							
MW-7	1/25/17	1100		W										X						Short Holds: NO3/NO2(IC), Orthophosphate (IC)
MW-5		1315		W										X						
MW-14		1430		W										X						Dissolved Arsenic subbed direct to ARI
MW-6		1550		W										X						
MW-12I		1650		W										X						Sample is unfiltered and unpreserved Needs lab filtering
MW-501		—		W										X						
MW-13D	1/26/17	1210		W										X						
SW-1		836		W										X						
SW-4		915		W										X						
SW-6		1000		W										X						
SW-7		1100		W										X						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Aaron Pruitt	1/26/17 1720	Aspect	Brittney Hall	1/27/17 17:10	ARI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

2017
02/23/2017

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Aspect Consulting, LLC Project Name: Hansville Landfill

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

Assigned ARI Job No: 17A0358 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 1.2

Time: 17:09

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: D005276

Cooler Accepted by: B.H. Date: 1/27/17 Time: 17:09

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
Were all bottles sealed in individual plastic bags?		YES	(NO)
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)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: B.H Date: 1/27/17 Time: 17:18

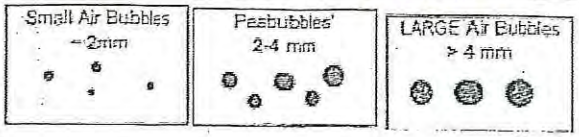
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
Hans-MW7-012517	MW-7		
Hans-MW501-012517	MW-501		

Additional Notes, Discrepancies, & Resolutions:

Missing bottle and COC time for sample MW-501.
Number of containers not given on COC.

By: B.H. Date: 1/27/17



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

WORK ORDER

17A0358

Client: Aspect Consulting	**Project Manager: Mark Harris**
Project: Hansville Landfill	**Project Number: [none]**

Preservation Confirmation

Container ID	Container Type	pH
17A0358-01 A	HDPE NM, 500 mL	>2 F
17A0358-02 A	HDPE NM, 500 mL	>2 F
17A0358-03 A	HDPE NM, 500 mL	>2 F
17A0358-04 A	HDPE NM, 500 mL	>2 F
17A0358-05 A	HDPE NM, 500 mL	>2 F
17A0358-06 A	HDPE NM, 500 mL	>2 F
17A0358-07 A	HDPE NM, 500 mL	>2 F
17A0358-08 A	HDPE NM, 500 mL	>2 F
17A0358-09 A	HDPE NM, 500 mL	>2 F
17A0358-10 A	HDPE NM, 500 mL	>2 F
17A0358-11 A	HDPE NM, 500 mL	>2 F

B.H. — Preservation Confirmed By

1/27/17 — Date

B.H. — Reviewed By

1/27/17 — Date

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7	17A0358-01	Water	25-Jan-2017 11:00	27-Jan-2017 17:10
MW-5	17A0358-02	Water	25-Jan-2017 13:15	27-Jan-2017 17:10
MW-14	17A0358-03	Water	25-Jan-2017 14:30	27-Jan-2017 17:10
MW-6	17A0358-04	Water	25-Jan-2017 15:50	27-Jan-2017 17:10
MW-12I	17A0358-05	Water	25-Jan-2017 16:50	27-Jan-2017 17:10
MW-501	17A0358-06	Water	25-Jan-2017 00:00	27-Jan-2017 17:10
MW-13D	17A0358-07	Water	26-Jan-2017 12:10	27-Jan-2017 17:10
SW-1	17A0358-08	Water	26-Jan-2017 08:30	27-Jan-2017 17:10
SW-4	17A0358-09	Water	26-Jan-2017 09:15	27-Jan-2017 17:10
SW-6	17A0358-10	Water	26-Jan-2017 10:00	27-Jan-2017 17:10
SW-7	17A0358-11	Water	26-Jan-2017 11:00	27-Jan-2017 17:10

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

Case Narrative

Client: Test America - Denver
Project: Hansville
Workorder: 17A0358

Sample receipt

11 samples were received 27-Jan-2017 17:10 under ARI work order 17A0358. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Dissolved Arsenic - EPA Method 200.8

These samples were digested and analyzed within the recommended holding times.

All initial and continuing calibrations were within method requirements.

Arsenic was not detected in the method blank above the LOQ.

The percent recovery for arsenic was within acceptable QC limits for the LCS.

A matrix spike (MS) was prepared and analyzed in conjunction with sample 'MW-7'. The percent recovery for arsenic was within acceptable QC limits for the MS.

A matrix duplicate (MD) was prepared and analyzed in conjunction with sample 'MW-7'. The RPD for arsenic was within acceptable QC limits for the MD.

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Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

MW-7

17A0358-01 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/25/2017 11:00
Instrument: ICPMS2 — Analyzed: 02/04/2017 16:41

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00441**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

MW-5

17A0358-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/25/2017 13:15
Instrument: ICPMS2 — Analyzed: 02/04/2017 16:12

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00843**	mg/L	

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Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

MW-14

17A0358-03 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/25/2017 14:30
Instrument: ICPMS2 — Analyzed: 02/04/2017 16:17

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.0609**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

MW-6

17A0358-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/25/2017 15:50
Instrument: ICPMS2 — Analyzed: 02/04/2017 16:21

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00774**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

MW-12I

17A0358-05 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/25/2017 16:50
Instrument: ICPMS2 — Analyzed: 02/04/2017 16:26

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00957**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

MW-501

17A0358-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/25/2017 00:00
Instrument: ICPMS2 — Analyzed: 02/04/2017 16:31

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.0600**	mg/L	

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Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

MW-13D

17A0358-07 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/26/2017 12:10
Instrument: ICPMS2 — Analyzed: 02/04/2017 17:09

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.0183**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

SW-1

17A0358-08 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/26/2017 08:30
Instrument: ICPMS2 — Analyzed: 02/04/2017 17:14

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00691**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

SW-4

17A0358-09 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/26/2017 09:15
Instrument: ICPMS2 — Analyzed: 02/04/2017 17:19

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00746**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

SW-6

17A0358-10 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/26/2017 10:00
Instrument: ICPMS2 — Analyzed: 02/04/2017 17:24

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00807**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

SW-7

17A0358-11 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 UCT-KED — Sampled: 01/26/2017 11:00
Instrument: ICPMS2 — Analyzed: 02/04/2017 17:29

Sample Preparation: Preparation Method: RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x
Preparation Batch: BFB0002 — Sample Size: 25 mL
Prepared: 02/01/2017 06:25 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Arsenic, Dissolved	7440-38-2	1	0.000200	**0.00376**	mg/L	

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BFB0002 - RHN EPA 600/4-79-020 4.1.4 HNO3 matrix 5x

Instrument: ICPMS2

QC Sample/Analyte	Isotope	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BFB0002-BLK1)				Prepared: 01-Feb-2017 Analyzed: 04-Feb-2017 16:07							
Arsenic		ND	0.000200	mg/L							U
LCS (BFB0002-BS1)				Prepared: 01-Feb-2017 Analyzed: 04-Feb-2017 16:51							
Arsenic	75a	0.0224	0.000200	mg/L	0.0200		112 %	80-120			
Duplicate (BFB0002-DUP1)		**Source: 17A0358-01**		Prepared: 01-Feb-2017 Analyzed: 04-Feb-2017 16:36							
Arsenic	75a	0.00438	0.000200	mg/L		0.00441			0.66	20	
Matrix Spike (BFB0002-MS1)		**Source: 17A0358-01**		Prepared: 01-Feb-2017 Analyzed: 04-Feb-2017 16:46							
Arsenic	75a	0.0231	0.000200	mg/L	0.0200	0.00441	93.3 %	75-125			

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

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

Certified Analyses included in this Report

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

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	UST-033	05/06/2017
CALAP	California Department of Public Health CAELAP	2748	02/28/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	03/30/2017
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006	05/11/2017
WADOE	WA Dept of Ecology	C558	06/30/2017
WA-DW	Ecology - Drinking Water	C558	06/30/2017

Test America - Denver	Project: Hansville	
4955 Yarrow Street	Project Number: [none]	**Reported:**
Arvada, CO 80002	Project Manager: Betsy Sara	23-Feb-2017 10:43

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
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.

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custo

280-93434 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Aaron Pruitt	Lab PM: Sara, Betsy A	COC No: 280-23414-6845.1
Client Contact: Aaron Pruitt	Phone: 206-838-6587	E-Mail: betsy.sara@testamericainc.com	Page: 1/2
Company: Aspect Consulting, LLC			Job #: 160423
Address: 350 Madison Ave N	Due Date Requested: standard		
City: Bainbridge Island	TAT Requested (days): Standard		
State, Zip: WA, 98110			
Phone: 206-838-6587	PO #: Purchase Order not required		
Email: apruitt@aspectconsulting.com	WO #:		
Project Name: Hansville Landfill	Project #:skip sites/events 28006013 - 1Q Sampling		
Site: Washington	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C SIM - Vinyl Chloride (TA Buffalo)	Dissolved Metals	Ammonia/TOC	Alks/Cl/SO4/NO3/NO3(IC)	Ortho-phosphate (field filtered) Unfiltered	Dissolved Arsenics (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)	Dissolved Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	D	S	N	N	D	A	F	X	
MW-7	1/25/17	1100		W			X		X	X	X		X	X		Short Holds: NO3/NO2(IC), Orthophosphate (IC)
MW-5		1315		W			X		X	X	X		X	X		
MW-14		1430		W			X		X	X	X		X	X		Dissolved Arsenic subbed direct to ARI
MW-6		1550		W			X		X	X	X		X	X		
MW-12I		1650		W			X		X	X	X		X	X		Diss. Metals +
MW-501		—		W			X		X	X	X		X	X		orthophos. are
MW-13D	1/26/17	1210		W			X		X	X	X		X	X		unfiltered and
SW-1		830		W			X		X	X	X		X	X		unpreserved
SW-4		915		W			X		X	X	X		X	X		Diss As delivered
SW-6		1000		W			X		X	X	X		X	X		to ARI on
SW-7		1100		W			X		X	X	X		X	X		separate COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Aaron Pru	Date/Time: 1/26/17 17:50	Company	Received by:	Date/Time: 1/28/17 0825	Company TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.4, 0.8, 1.4-02 IR#5 DN 1/28/17

02/23/2017

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Aaron Pruitt	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-23414-6845.1
Client Contact: Aaron Pruitt	Phone: 206-838-6587	E-Mail: betsy.sara@testamericainc.com		Page: 2/2
Company: Aspect Consulting, LLC				Job #: 160423

Address: 350 Madison Ave N	Due Date Requested: Std	
City: Bainbridge Island	TAT Requested (days): Std	
State, Zip: WA, 98110		
Phone: 206-8386587	PO #: Purchase Order not required	
Email: apruitt@aspectconsulting.com	WO #:	
Project Name: Hansville Landfill	Project #:skip sites/events 28006013 - 1Q Sampling	
Site: Washington	SSOW#:	

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C SIM - Vinyl Chloride (TA Buffalo)	Dissolved Metals	Ammonia/TOC	Alks/Cl/SO4/NO3/NO3(IC)	Ortho-phosphate (field filtered)	Dissolved Arsenice (Direct sub to ARI)	8260C - Full Scan VOA (TA Buffalo)						Total Number of containers	Special Instructions/Note:
			Preservation Code:		F	N	A	D	S	N	N	D	A							
TRIP BLANK							X													Short Holds: NO3/NO2(IC), Orthophosphate (IC)
																				Dissolved Arsenic subbed direct to ARI

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Aaron Pruitt	Date/Time: 1/26/17 17:50	Company: Aspect	Received by:	Date/Time: 1/28/17 0825	Company: TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

02/23/2017

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL
Site No.: Sample Point: MW-7 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
01/25/17	1019	36	28	47	1.7

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

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment... Dedicated: ✓ or N
Filter Device: Y or ✓ 0.45 µ or ____ µ (circle or fill in)
Purging Device: A
Sampling Device: A
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
X-Other:
Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____)

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
346 (ft/msl)	8457 (ft)	26143 (ft/msl)

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Lpm	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1022	0.5 1st	7.46 1st	291	9.5		2.7	286	
	2nd	2nd						
	3rd	3rd						
1040	4th	7.14 4th	281	12.5		2.0	127	878
1045		7.10	280	12.5		1.9	122	888
1050		7.09	280	12.6		1.8	117	888
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01/25/17	7.05	279	12.6	1.8	1.8	116	

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

FIELD COMMENTS

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

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

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

Samples need to be filtered in lab

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi	Na Hyung Choi	Aspect Consulting
1/26/17	Aaron Pruitt	Aaron Pruitt	Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL
Site No.:
Sample Point: MW-5 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:mn)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
01 25 17	1245	3:25	53	39 3.3	0.7 0.6

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

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: [X] or [N]
Purging Device: A
Sampling Device: A
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:
Filter Device: [Y] or [X] [0.45 µ] or [ ] µ (circle or fill in)
Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC): 3669 (ft/msl)
Depth to Water (DTW) (from TOC): 9912 (ft)
Groundwater Elevation (site datum, from TOC): 26698 (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1250	0.5 LPM	1st 7.56	1st 142	9.8		9.2	190	999
1255		2nd 7.54	2nd 143	10.0		8.9	199	999
1300		3rd 7.51	3rd 143	10.7		8.6	199	1000
1306		4th 7.46	4th 143	12.4		8.5	196	999
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01 25 17	7.45	143	12.5	0.5	8.4	189	

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

FIELD COMMENTS

Sample Appearance: clear
Odor:
Color:
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed:
Outlook: overcast
Precipitation: Y or N

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

samples need to be filtered in lab

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi		Aspect Consulting
1/26/17	Aaron Pruett		Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL

Site No.:

Sample Point: MW-14 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
01/25/17	1357	32	20	42	2

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

PURGE/SAMPLE EQUIPMENT

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

Purging Device: A

Sampling Device: A

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

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC): 3411 (ft/msl)

Depth to Water (DTW) (from TOC): 8129 (ft)

Groundwater Elevation (site datum, from TOC): 25981 (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: Lpm	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1402	0.5 1st	7.04 1st	2.71	11.2		0.5	234	8.14
1407	2nd	7.03 2nd	2.71	12.8		0.5	176	8.14
1412	3rd	7.01 3rd	2.71	14.3		0.5	126	8.15
1418	4th	6.98 4th	2.71	14.6		0.5	102	8.14
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01/25/17	6.97	272	14.7	0.4	0.4	84	

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

FIELD COMMENTS

Sample Appearance: clear Odor: Color: Other:

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

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

samples need to be filtered in lab

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi		Aspect Consulting
1/26/17	Aaron Pruitt		Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL

Site No.:

Sample Point: MW-6 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
01/25/17	1505	:41	22	53	2.4

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

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: [X] or [N]

Filter Device: [Y] or [X] [0.45 µ] or [ ] µ (circle or fill in)

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

Sampling Device: A

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

X-Other:

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

WELL DATA

Well Elevation (at TOC): 3327 (ft/msl)

Depth to Water (DTW) (from TOC): 7385 (ft)

Groundwater Elevation (site datum, from TOC): 25885 (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Lpm	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1510	0.5	6.99	367	12.0		2.2	195	7.59
1535		7.04	379	16.1		0.7	111	
1540		7.01	387	17.5		0.5	104	
1543		7.02	390	16.7		0.4	104	
Suggested range for 3 consec readings or note Permit/State requirements		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01/25/17	6.97	389	16.1	5.4	0.4	133	

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

Sample Appearance: clear Odor: Color: Other:

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

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

FIELD COMMENTS

- water level indicator tangled in well, can't get good DTWs
- samples need to be filtered in lab

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi	Na Hyung Choi	Aspect Consulting
1/26/17	Ann Pruitt	Ann Pruitt	Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL
Site No.:
Sample Point: MW-12I (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
01/25/17	1629	1:15	50	20	0.4

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

PURGE/SAMPLE EQUIPMENT

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

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

Filter Device: Y or N; 0.45 µ or ____ µ (circle or fill in)
Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: D (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC): 2481 (ft/msl)
Depth to Water (DTW) (from TOC): 980 (ft)
Groundwater Elevation (site datum, from TOC): 2383 (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: Lpm	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1634	0.5	6.91 (1st)	1.52 (1st)	9.6		0.6	380	9.9
1639		7.00 (2nd)	1.55 (2nd)	9.9		0.3	300	9.8
1644		7.06 (3rd)	1.56 (3rd)	10.0		0.3	264	9.8
~~1647~~		~~7.07~~ (4th)						
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01/25/17	7.07	1.56	10.0	0.3	0.2	266	

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

FIELD COMMENTS

Sample Appearance: clear
Odor:
Color:
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed:
Outlook: overcast
Precipitation: Y or N

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

samples need to be filtered in lab

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi		Aspect Consulting
1/26/17	Aaron Pruitt		Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL

Site No.:

Sample Point: MW-13D (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
012617	1147	20	87	26	03

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

PURGE/SAMPLE EQUIPMENT

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

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

Sampling Device: A

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2604 (ft/msl)	1085 (ft)	1519 (ft/msl)

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

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

Casing ID: ____ (in)

Casing Material: ____

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1152	4pm 0.5	1st 7.43	1st 192	10.2		0.5	134	1.16
1157		2nd 7.46	2nd 193	10.5		0.3	1063	1.16
1202		3rd 7.47	3rd 193	10.6		0.2	1007	1.15
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
012617	7.47	194	10.6	03	0.2	968	

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

FIELD COMMENTS

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

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

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

samples were not filtered (need to be filtered in lab)

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

Date	Name	Signature	Company
1.26.17	Na Hyung Choi		Aspect Consulting
1.26.17	Aaron Pruitt		Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL

Site No.:

Sample Point: SW-1 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

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

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

PURGE/SAMPLE EQUIPMENT

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

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

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

Sampling Device: ____

X-Other: ____

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

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

WELL DATA

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

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

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

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
01 26 17	7.00	184	8.4	1.2	10.3	136.7	

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

FIELD COMMENTS

Sample Appearance: slight discoloration Odor: ____ Color: yellow Other: ____

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

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

need to be filtered in lab

SURFACE WATER

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi		Aspect Consulting
1/26/17	Aaron Pruitt		Aspect Consulting

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL

Site No.:

Sample Point: SW-4 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

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

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

PURGE/SAMPLE EQUIPMENT

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

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

Purging Device ____ Sampling Device ____

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

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

X-Other: ____

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

WELL DATA

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

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

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

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

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

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
01/26/17	7.46	304	6.8	1.5	10.9	118.6	

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

FIELD COMMENTS

Sample Appearance: slight discoloration Odor: ____ Color: yellow Other: ____

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

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

need to be filtered in lab

SURFACE WATER

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi		Aspect Consulting
1/26/17	Aaron Pruitt		Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL

Site No.:

Sample Point: SW-6 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

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

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

PURGE/SAMPLE EQUIPMENT

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

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

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

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

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

X-Other:

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

WELL DATA

Well Elevation (at TOC) (ft/msl)

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

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

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01 26 17	6.52	88	5.2	2.3	1.01	127.3	

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

FIELD COMMENTS

Sample Appearance: slight discoloration **Odor:** ____ **Color:** yellow **Other:** ____

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

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

need to be filtered in lab

SURFACE WATER

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi		Aspect Consulting
1/26/17	Aaron Pruitt		Aspect

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: HANSVILLE LANDFILL

Site No.:

Sample Point: SW-7 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

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

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

PURGE/SAMPLE EQUIPMENT

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

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

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

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

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

X-Other:

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

WELL DATA

Well Elevation (at TOC) (ft/msl)

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

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

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements.		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
01 26 17	7.23	1113	6.3	1.8	12.1	118.4	

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

FIELD COMMENTS

Sample Appearance: slight discoloration Odor: ____ Color: yellow Other: ____

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

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

need to be filtered in lab

SURFACE WATER

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

Date	Name	Signature	Company
1/26/17	Na Hyung Choi	Na Hyung Choi	Aspect Consulting
1/26/17	Aaron Pruitt	Aaron Pruitt	Aspect

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

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-386841.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: betsy.sara@testamericainc.com	State of Origin: Washington	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Washington		Job #: 280-93434-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 2/8/2017			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298	PO #:			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #:			
Email:	Project #: 28006013			
Project Name: Hansville Landfill	SSOW#:			
Site: Hansville				

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C (MOD) Appendix II Volatiles	8260C_SIM/5030C (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-7 (280-93434-1)	1/25/17	11:00 Pacific		Water			X	X	6	
MW-5 (280-93434-2)	1/25/17	13:15 Pacific		Water			X	X	6	
MW-14 (280-93434-3)	1/25/17	14:30 Pacific		Water			X	X	6	
MW-6 (280-93434-4)	1/25/17	15:50 Pacific		Water			X	X	6	
MW-12I (280-93434-5)	1/25/17	16:50 Pacific		Water			X	X	6	
MW-50I (280-93434-6)	1/25/17	Pacific		Water			X	X	6	
MW-13D (280-93434-7)	1/25/17	12:10 Pacific		Water			X	X	6	
SW-1 (280-93434-8)	1/26/17	08:30 Pacific		Water			X	X	6	
SW-4 (280-93434-9)	1/26/17	09:15 Pacific		Water			X	X	6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/30/17 1700			1/31/17 0930	TAT BWF
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #3 3.8°C

02/23/2017

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-386841.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: betsy.sara@testamericainc.com	State of Origin: Washington	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Washington		Job #: 280-93434-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 2/8/2017			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Hansville Landfill	Project #: 28006013			
Site: Hansville	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/6030C (MOD) Appendix II Volatiles	8260C_SIM/5030C (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SW-6 (280-93434-10)	1/26/17	10:00 Pacific		Water			X	X	6	
SW-7 (280-93434-11)	1/26/17	11:00 Pacific		Water			X	X	6	
TRIP BLANK (280-93434-12)	1/26/17	Pacific		Water				X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/30/17 1700			1/31/17 0930	TA Bus.
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #3 3.4°C

02/23/2017

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 280-93434-1

Login Number: 93434
List Number: 1
Creator: White, Denise E

List Source: TestAmerica Denver

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

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 280-93434-1

Login Number: 93434
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 01/31/17 02:17 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	3.8 #3
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.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-5 **Page:** ___ of ___

Project Name: Hansville LF
Project Number: ___
Date: 1/25/19
Developed by: ___
Measuring Point of Well: TOC
Screened Interval (ft. TOC) ___
Filter Pack Interval (ft. TOC) ___

Starting Water Level (ft TOC): 99.92
Casing Stickup (ft): ___
Total Depth (ft TOC): ___
Casing Diameter (inches): ___

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

Sample Intake Depth (ft TOC): ___

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
1245		0.5	99.92							start
1250		1 LPM	99.93	9.82	141.9	9.15	7.56	19.0		
1255			99.94	10.06	143.0	8.54	7.54	19.5		
1300			99.95	10.72	142.8	8.62	7.51	19.9		
1305			99.94	12.4	143.2	8.48	7.46	17.6		
1310			99.94	12.5	143.1	8.39	7.45	18.5		
1315	5.96 L								0.5T	Sample

Total Gallons Purged: ___ Total Casing Volumes Removed: ___

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
1315	1L	Poly		1	—	—			
	0.5L	Amb		1	—	H_2SO_4			
	0.5L	Poly		2	—	—			Needs Lab Filter
	40mL	VOA		6	—	HCl			
	250mL	Poly		1	—	—			Needs Lab Filter

METHODS

Sampling Equipment with IDs: YSI Blue
Purging Equipment: Grundfos Decon Equipment: ~~YSI Blue~~ Alconox + Water
Disposal of Discharged Water: ___
Observations/Comments: HANS-MW5-012519

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-6 **Page:** ___ of ___

Project Name: Hansville LF
Project Number: ___
Date: 1/25/17
Developed by: ___
Measuring Point of Well: TOC
Screened Interval (ft. TOC) ___
Filter Pack Interval (ft. TOC) ___

Starting Water Level (ft TOC): 73.85
Casing Stickup (ft): ___
Total Depth (ft TOC): ___
Casing Diameter (inches): ___

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

Sample Intake Depth (ft TOC): ___

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
1505		0.5								Start
1510			75.94	12.0	366.8	2.23	6.99	19.5		
1515				13.7	367.3	1.56	7.11	11.3		
1520				15.1	369.4	1.20	7.09	10.0		
1525				15.5	372.0	0.96	7.07	10.6		
1530				16.0	375.4	0.80	7.05	10.9		
1535				16.1	378.9	0.70	7.04	11.1		
1540				17.5	386.9	0.45	7.01	10.4		
1543				16.7	389.7	0.44	7.02	10.4		
1546				16.1	389.2	0.44	6.99	13.3		sampled
									5.44	

Total Gallons Purged: ___ Total Casing Volumes Removed: ___

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
1550	1L	poly		1	-	-			
	0.5L	amb		1	-	Sulf			
	0.5L	poly		2	-	-			needs lab filter
	40mL	VOA		6	-	HCl			
	250ml	poly		1	-	-			needs lab filter

METHODS

Sampling Equipment with IDs: YSI - Blue
Purging Equipment: Grundfos Decon Equipment: Alconox + water
Disposal of Discharged Water: ___
Observations/Comments: Hans-MW6-012517
WLP tangled in well, can't get good DTW.

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-7 **Page:** ____ **of** ____

Project Name: Hansville LF

Date: 1/25/17

Developed by:

Measuring Point of Well:

Screened Interval (ft. TOC)

Filter Pack Interval (ft. TOC)

Project Number:

Starting Water Level (ft TOC): 84.51

Casing Stickup (ft):

Total Depth (ft TOC):

Casing Diameter (inches):

Casing Volume ________ (ft Water) x ________ (Lpfv)(gpf) = ________ (L)(gal)

Casing volumes: 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf

2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): ________

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
1019		0.5								
1022				9.5°C	291.0	2.73	7.46	26.6	—	
1029				10.4°C	287.1	2.26	7.36	20.4	—	
1035			84.69	12.2°C	282.6	2.05	7.18	14.1	—	
1040			87.79	12.5°C	281.2	1.96	7.14	12.7	—	
1045			88.83	12.5°C	279.7	1.94	7.10	12.2	—	
1050			88.83	12.6°C	280.1	1.84	7.09	11.7		
1055				12.6	279.4	1.78	7.05	11.6		
1100									1.8	sample

Total Gallons Purged: ________ Total Casing Volumes Removed: ________

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance: Color	Appearance: Turbidity & Sediment	Remarks
1100	1L	Poly		1	N/A	N/A			Alk, Cl, NO_3/NO_2, SO_4
1100	0.5L	Amb		1	N/A	Sulf			Ammo, TOC
|	250mL	Poly		1	N/A	N/A			ophos
|	40mL	VOA		6	N/A	HCl			VOCs
|	500mL	Poly		2	N/A	N/A			Diss Metals

METHODS

Sampling Equipment with IDs: Grundfos YSI Blue

Purging Equipment: ________ Decon Equipment: Alconox + Water

Disposal of Discharged Water: ________

Observations/Comments: Hans-MW7-012517

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-12I **Page:** ___ of ___

Project Name: Hansville LF
Project Number: _____
Date: 1/25/17
Developed by: _____
Measuring Point of Well: TOC
Screened Interval (ft. TOC) _____
Filter Pack Interval (ft. TOC) _____
Starting Water Level (ft TOC): 9.80
Casing Stickup (ft): _____
Total Depth (ft TOC): _____
Casing Diameter (inches): _____

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

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
1629		0.5								start
1634			9.86	9.6	151.9	0.63	6.91	38.0	-	
1639			9.84	9.9	155.1	0.33	7.00	30.0	-	
1644			9.84	10.0	155.6	0.25	7.06	26.4	-	
1647				10.0	156.0	0.23	7.07	26.6	-	sample
									0.34	

Total Gallons Purged: _____ Total Casing Volumes Removed: _____

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
1650	1L	Poly		1	-	-			
	Second	Amb		1	-	Sulf			
	500mL	Poly		2	-	-			Needs lab filt
	250mL	Poly		1	-	-			Needs lab filt
	40mL	VOA		6	-	HCl			

METHODS

Sampling Equipment with IDs: YSI - Blue
Pump Equipment: Grundfos Decon Equipment: Alconox - water
Discharged Water: _____
Comments: Hans - MW12I - 012517

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

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

Project Name: Hanson LF
Project Number: ___
Date: 1/26/17
Developed by: ___
Measuring Point of Well: ___
Screened Interval (ft. TOC) ___
Filter Pack Interval (ft. TOC) ___

Starting Water Level (ft TOC): 10.85
Casing Stickup (ft): ___
Total Depth (ft TOC): ___
Casing Diameter (inches): ___

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

Sample Intake Depth (ft TOC): ___

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
11:47		0.5								Start
11:52			11.59	10.2	192.3	0.53	7.43	113.4	—	
11:57			11.56	10.5	193.1	0.26	7.46	106.3	—	
12:02			11.52	10.6	193.4	0.20	7.47	100.7	—	
12:07			11.52	10.6	193.5	0.18	7.49	96.8	0.29	Sample

Total Gallons Purged: ___ Total Casing Volumes Removed: ___

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
12:10	1L	Poly		1	—	—			
	500mL	Amb		1	—	Sulf.			
	500mL	Poly		2	—	—			Needs Lab filter
	250mL	Poly		1	—	—			Needs Lab filter
	40mL	VOA		6	—	HCl			

METHODS

Sampling Equipment with IDs: YSI Blue
Purging Equipment: GrundFos Decon Equipment: Alconox + Water
Disposal of Discharged Water: ___
Observations/Comments: Hans-MW13D-012617

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: MW-14 Page: ___ of ___

Project Name: Hansville - LF
Project Number: ___
Date: 1/25/17
Developed by: ___
Measuring Point of Well: TOC
Screened Interval (ft. TOC) ___
Filter Pack Interval (ft. TOC) ___

Starting Water Level (ft TOC): 81.29
Casing Stickup (ft): ___
Total Depth (ft TOC): ___
Casing Diameter (inches): ___

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

Sample Intake Depth (ft TOC): ___

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
1357		0.5								start
1402			81.43	11.2°C	270.8	0.51	7.04	23.4		
1407			81.43	12.8	270.9	0.48	7.03	17.6		
1412			81.45	14.3	271.4	0.48	7.01	12.6		
1418			81.43	14.6	270.9	0.46	6.98	10.2		
1424			81.43	14.9	271.5	0.44	6.97	8.4		Sample
									0.47	

Total Gallons Purged: ___ Total Casing Volumes Removed: ___

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
1430	1 L	~~Tedlar~~ Poly		2	—	—			
	0.5L	Amb		2	—	—			
	0.5L	Poly		4	—	—			Needs Lab Filter
	250mL	~~Poly~~ ~~Amb~~		2	—	—			Needs Lab Filter
	40mL	VOA		12	—	—			

METHODS

Sampling Equipment with IDs: YSI - Blue
Purging Equipment: Grundfos Decon Equipment: Alconox & Water
Disposal of Discharged Water: ___
Observations/Comments: Hans - MW-14 - 012517
Dupe = MW-501 - 012517

C:\Users\apruitt\Documents\Groundwater Sampling1

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-1 **Page:** ___ of ___

Project Name: Hanselle LF

Project Number: _____

Date: 1/26/17

Developed by: _____

Measuring Point of Well: _____

Screened Interval (ft. TOC) _____

Filter Pack Interval (ft. TOC) _____

Starting Water Level (ft TOC): _____

Casing Stickup (ft): _____

Total Depth (ft TOC): _____

Casing Diameter (inches): _____

Casing Volume _____ (ft Water) x _____ (Lpfv)(gpf) = _____ (L)(gal)

Casing volumes: 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): _____

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
	/	/								
				8.4	183.7	10.26	7.60	136.7	1.17	

Total Gallons Purged: _____ Total Casing Volumes Removed: _____

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
1330	1L	Poly		1	—	—			
	500mL	Amb		1	—	Sulf			
	500mL	Poly		2	—	—			Needs Lab Filter
	250mL	Poly		1	—	—			Needs Lab Filter
	40mL	VOA		6	—	HCl			

METHODS

Sampling Equipment with IDs: YSI - Blue

Purging Equipment: _____ Decon Equipment: _____

Disposal of Discharged Water: _____

Observations/Comments: Surface Water Sample

C:\Users\apruitt\Documents\Groundwater Sampling1

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-4 Page: ___ of ___

Project Name: Hansville LF
Project Number: ___
Date: 1/26/17
Developed by: ___
Measuring Point of Well: TOC
Screened Interval (ft. TOC) ___
Filter Pack Interval (ft. TOC) ___

Starting Water Level (ft TOC): ___
Casing Stickup (ft): ___
Total Depth (ft TOC): ___
Casing Diameter (inches): ___

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

Sample Intake Depth (ft TOC): ___

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
				6.8	300.4	10.39	7.46	186	1.50	

Total Gallons Purged: ___ Total Casing Volumes Removed: ___

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
915	1 L	Poly		1	—	—			
	500 mL	Poly		2	—	—			Needs Lab Filter
	500 mL	Amb		1	—	Sulf			
	250 mL	Poly		1	—	—			Needs Lab filter
	40 mL	VOA		6	—	HCl			

METHODS

Sampling Equipment with IDs: YSI - Blue
Purging Equipment: ___ Decon Equipment: ___
Disposal of Discharged Water: ___
Observations/Comments: ___

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-6 Page: ___ of ___

Project Name: Arlington LF
Project Number: _____
Date: 1/26/19
Developed by: _____
Measuring Point of Well: _____
Screened Interval (ft. TOC) _____
Filter Pack Interval (ft. TOC) _____

Starting Water Level (ft TOC): _____
Casing Stickup (ft): _____
Total Depth (ft TOC): _____
Casing Diameter (inches): _____

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

Sample Intake Depth (ft TOC): _____

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
				5.2	87.6	10.09	6.52	137.3	2.32	

Total Gallons Purged: _____ Total Casing Volumes Removed: _____

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
VOC	1L	Poly		1	–	–			
	500mL	Amb		1	–	Sulf			
	500mL	Poly		2	–	–			Needs Lab Filter
	250mL	Poly		1	–	–			Needs Lab Filter
	40mL	VOA		6	–	HCl			

METHODS

Sampling Equipment with IDs: _____
Purging Equipment: _____ Decon Equipment: _____
Disposal of Discharged Water: _____
Observations/Comments: Surface Water Sample

Aspect CONSULTING

GROUNDWATER SAMPLING RECORD

WELL NUMBER: SW-7 **Page:**___ of ___

Project Name: Hansville LF

Project Number:

Date: 11/20/17

Developed by:

Measuring Point of Well:

Screened Interval (ft. TOC)

Filter Pack Interval (ft. TOC)

Starting Water Level (ft TOC):

Casing Stickup (ft):

Total Depth (ft TOC):

Casing Diameter (inches):

Casing Volume _____ (ft Water) x _____ (Lpfv)(gpf) = _____ (L)(gal)

Casing volumes: 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf
2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

Sample Intake Depth (ft TOC): _____

PURGING MEASUREMENTS

Criteria:		Typical 0.1-0.5 Lpm	Stable and minimal and	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (C or F)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
	/	/	/							
	/	/	/							
				6.3	113.1	12.66	7.23	118.4	0.82	

Total Gallons Purged: _____ Total Casing Volumes Removed: _____

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

SAMPLE INVENTORY

Time	Volume	Bottle Type		Quantity	Filtration	Preservation	Appearance		Remarks
							Color	Turbidity & Sediment	
1100	1L	Poly		1	—	—			
	500mL	Amb		1	—	Sulf			
	500mL	Poly		2	—	—			Needs lab filter
	250mL	Poly		1	—	—			Needs lab filter
	40mL	VOA		6	—	HCl			

METHODS

Sampling Equipment with IDs:

Purging Equipment: _____ Decon Equipment: _____

Disposal of Discharged Water:

Observations/Comments: Surface Water Sample