Water Quality Monitoring Report
Second 2019 Semi-Annual Event

Vista Landfill Class III

Vista Landfill, LLC

February 26, 2020

PREPARED FOR:

Vista Landfill, LLC
242 West Keene Road
Apopka, Florida 32703

PREPARED BY:

Carlson Environmental Consultants
305 South Main Street
Monroe, North Carolina 28112

STATEMENT OF GEOLOGIC REVIEW

In general accordance with Chapter 62-701, Florida Administrative Code (F.A.C.), Solid Waste Management Facilities, this Groundwater Monitoring Report – Second 2019 Semi-Annual Monitoring Event for the Vista Landfill Site, located in Apopka, Florida, has been reviewed, signed and sealed by a registered Professional Geologist in the State of Florida, and is consistent with standard principles related to groundwater monitoring

02/26/2020

Ken E. Guilbeault, P.G.
Florida License # 2907
Date

CEC

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Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C.
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Vista Landfill, LLC., Class III

Address 242 West Keene Road

City Apopka Zip 32703 County Orange

Telephone Number (407)286-2920

(2) WACS Facility ID 87801

(3) DEP Permit Number 0165969-030-SO-MM

(4) Authorized Representative's Name Eric Parker Title Environmental Protection

Address 5110 US Hwy 301

City Baldwin Zip 32234 County Duval

Telephone Number (904)748-6006

Email address (if available) eparker1@wm.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

2/25/20
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Technical Support Services, Inc. (Pro-Tech)

Analytical Lab NELAC / HRS Certification # NELAP Certification E87667

Lab Name TestAmerica, Inc. (TestAmerica Denver)

Address 4955 Yarrow Street, Arvada, CO 80002

Phone Number (303)736-0100

Email address (if available) Danielle.Harrington@testamericainc.com

1 INTRODUCTION

The Vista Landfill Class III (Site or VLF) is owned and operated by Vista Landfill, LLC in accordance with Florida Department of Environmental Protection (FDEP) Operation Permit Number 0165969-030-SO issued November 2, 2017. The Site is an active Class III waste landfill that serves Orange County in central Florida.

Carlson Environmental Consultants, PC (CEC) has been retained to report the results of semi-annual groundwater monitoring at the Site in accordance with the Monitoring Plan Implementation Schedule (MPIS) (Appendix 3) of the referenced permit.

This report was prepared in accordance with Florida Department of Environmental Protection (FDEP) Permit/Certification No. 0165969-030-SO, Specific Condition Section 2.D, MPIS, and Chapter 62-701.510(8)(a) Florida Administrative Code (FAC). The Permit expires on June 1, 2036.

The second semi-annual 2019 sampling data was obtained during the routine semi-annual monitoring event conducted December 4, 5, and 9 2019 (Appendix A). An electronic data deliverable (EDD) of the results in "ADaPT format" is attached as Appendix B. This EDD has been verified as uploadable into the latest version of ADaPT.

2 BACKGROUND

2.1 Site Location and Description

The Site is located approximately two miles south of Apopka, Florida, at 242 West Keene Road. The VLF lies south of Keene Road, west of Old Apopka-Clarcona Road, and east of Lake Mitchell in Orange County Florida (Figure 1). The Site is a Class III lined landfill with a leachate collection system. The bottom-liner system consists of three layers (from top to bottom): a 2-foot thick sand liner protective layer, a double-sided geocomposite drainage layer, and a 50-mil high density polyethylene (HDPE) geomembrane layer. Waste was initially placed in the landfill on November 17, 2008. The locations of the monitoring sites are shown on Figure 2.

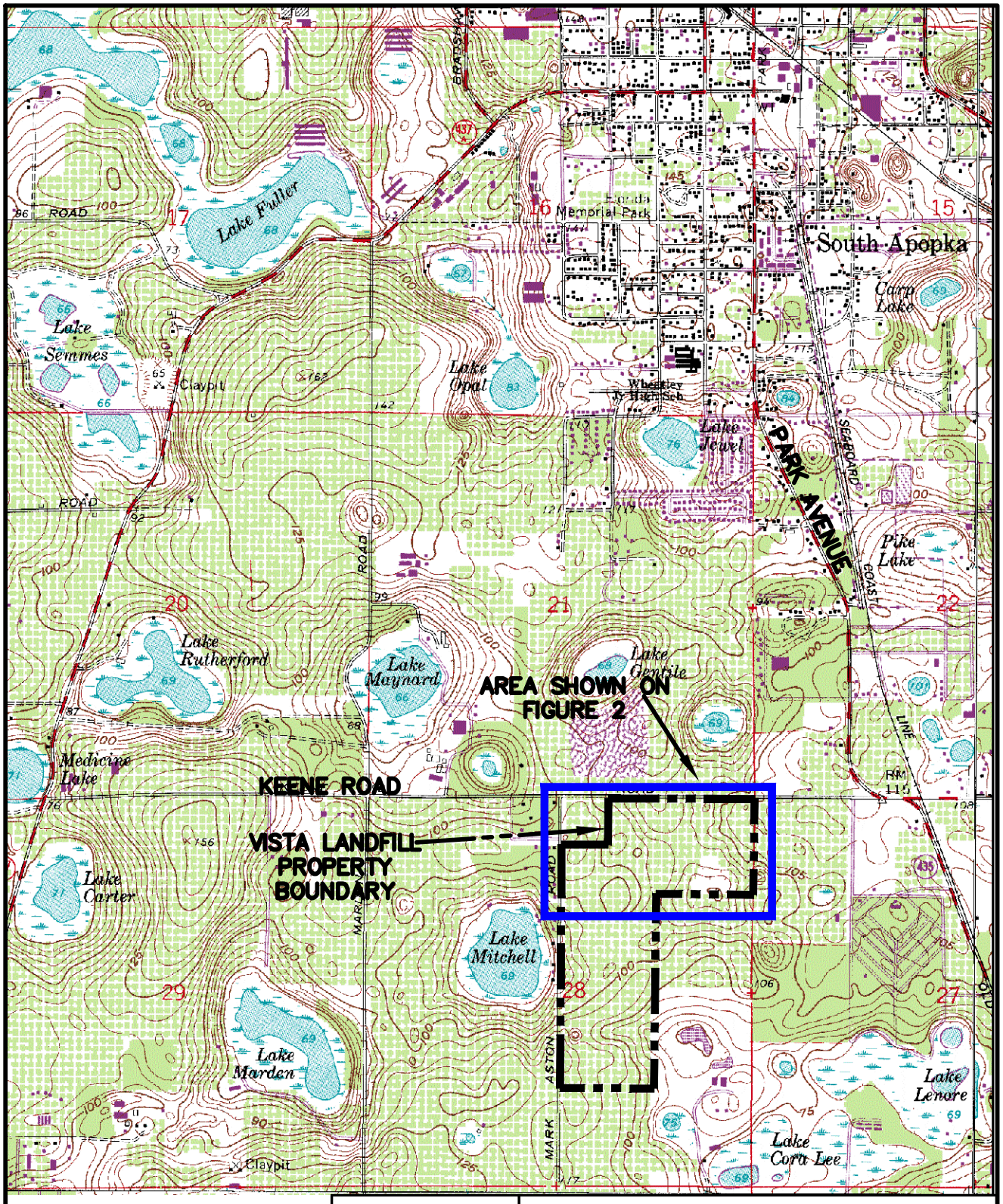

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FIGURE 1:
SITE LOCATION MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

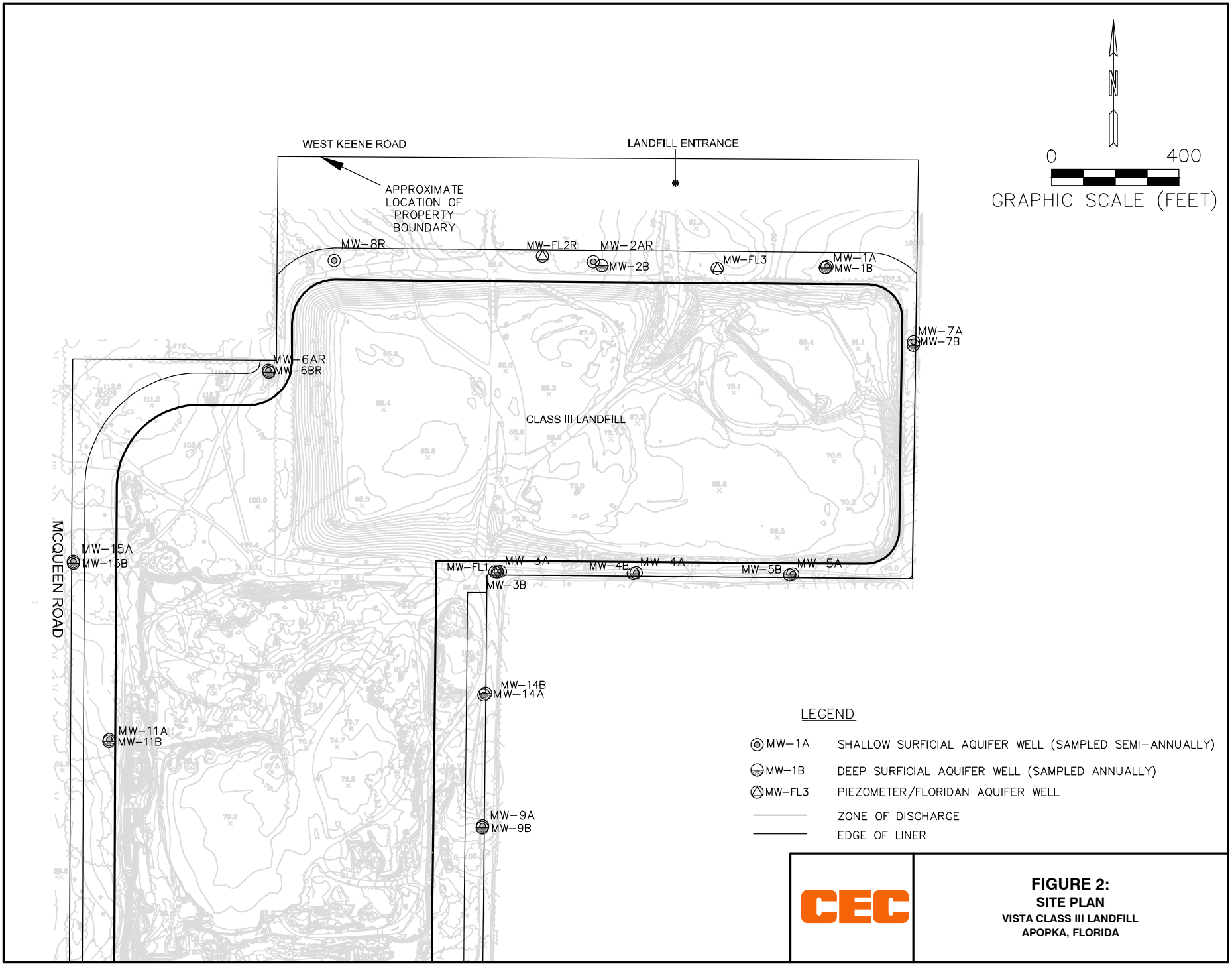

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FIGURE 2:
SITE PLAN
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

3 GEOLOGIC AND HYDROGEOLOGIC CHARACTERISTICS

Figure 1 shows the topography of the Site and region prior to the site being developed as a borrow pit and then as a landfill. The topography indicates the site is located in a region that is internally drained.

Based on evaluation of the Site hydrogeologic data, the groundwater at the Site primarily occurs in the Hawthorn Group and the underlying Floridan aquifer. The "surficial aquifer" consists of the water-bearing permeable zones of the Hawthorn Group that overlay the Floridan aquifer. The groundwater flow direction of the lower Hawthorn Group tends to mimic the pre-construction topography of the Site.

The Floridan aquifer underlies the surficial aquifer at the Site and is separated from it by the clay units of the Hawthorn Group.[1] Karst features (e.g., sinkholes) developed historically in the sediments overlying the upper Floridan aquifer, resulting in the internal drainage characteristics of the region. As a result, runoff and surficial aquifer groundwater flow moves toward and into these karst features, often resulting in development of surface water bodies such as Lake Mitchell, which is located west of the Site (Figure 1).

For this semi-annual report, CEC performed the groundwater flow assessment of the surficial aquifer using groundwater depth to water measurements obtained on December 4, 2019. The assessment included the compilation of groundwater depth measurements, the calculation of groundwater elevations, and plotting the data onto site figures depicting the estimated groundwater flow direction. Table 1 lists the monitoring locations, depths to water, and groundwater elevations. Water level maps generated for the shallow surficial aquifer and lower surficial aquifer are presented in Figures 3 and 4. These maps are generated using Surfer® Version 16, groundwater contouring computer program, with the interpretation verified by an CEC hydrogeologist.

3.1 Shallow Surficial Aquifer (Upper Zone)

The shallow surficial aquifer is defined here as the uppermost water-bearing zone of the undifferentiated sands and clayey sands that are part of the Hawthorn Group. A water level map of the shallow surficial aquifer was prepared from shallow surficial well data for the December 2019 sampling event and is provided on Figure 3.

Groundwater flow typically is expected to be perpendicular to the water level contours. Therefore, the approximate direction of groundwater flow in the shallow surficial aquifer is primarily to the southwest. A portion of the groundwater enters from the northwest section of the site and flows south. At MW-14A, there is a groundwater high and flow radiates outward. This groundwater flow configuration results from a combination of recharge from rainfall infiltration outside the bottom liner, interchange of groundwater with the underlying intermediate surficial aquifer, and

[1] The Rust Environment and Infrastructure (RUST) August 1996 (Revised September 1998) report entitled "Keene Road Hydrogeologic Evaluation" Prepared for Waste Management Inc.

Table 1. Groundwater Elevation Measurements
Vista Landfill, Apopka, Florida

Well No.	TOC Elevation (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	December 4, 2019 Groundwater Elevation (Feet NGVD)
MW-1A	109.47	40.93	68.54
MW-1B	109.53	50.72	58.81
MW-2AR	87.22	30.30	56.92
MW-2B	88.46	32.94	55.52
MW-3A	92.87	36.85	56.02
MW-3B	93.06	37.08	55.98
MW-4A	82.04	26.03	56.01
MW-4B	83.18	26.19	56.99
MW-5A	81.86	24.42	57.44
MW-5B	81.27	25.60	55.67
MW-6AR	104.11	47.70	56.41
MW-6BR	103.99	47.69	56.30
MW-7A	109.26	38.63	70.63
MW-7B	109.13	51.70	57.43
MW-8R	99.60	41.44	58.16
MW-9A	99.45	42.80	56.65
MW-9B	99.52	43.14	56.38
MW-11A	96.35	39.38	56.97
MW-11B	96.37	39.18	57.19
MW-14A	100.62	38.35	62.27
MW-14B	100.10	43.93	56.17
MW-15A	105.27	39.30	65.97
MW-15B	105.15	48.52	56.63
MW-FL1	93.16	37.14	56.02
MW-FL2R	86.76	28.43	58.33
MW-FL3	97.49	42.11	55.38

Notes:
NGVD = National Geodetic Vertical Datum, 1929.
TOC = Top of Casing.

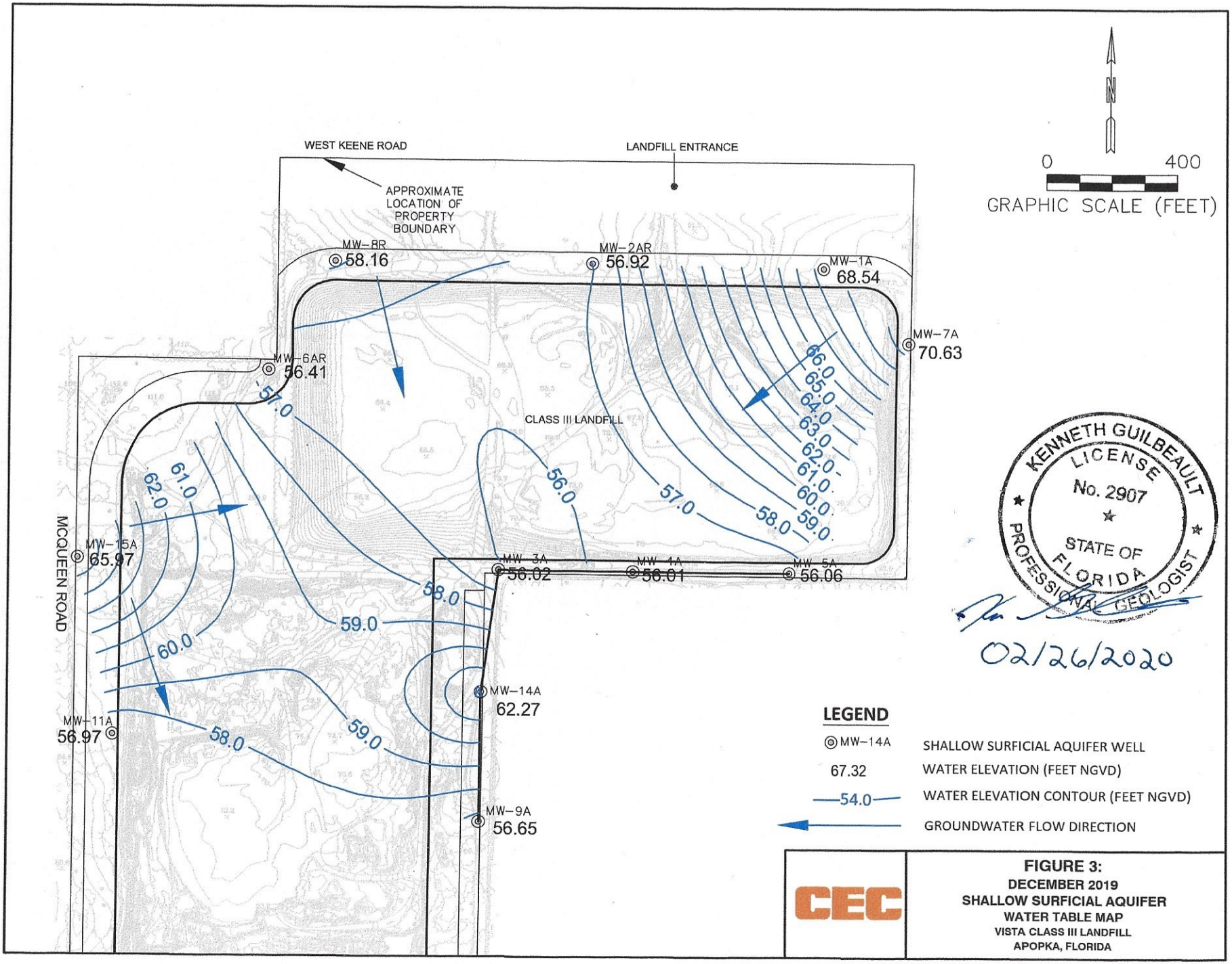

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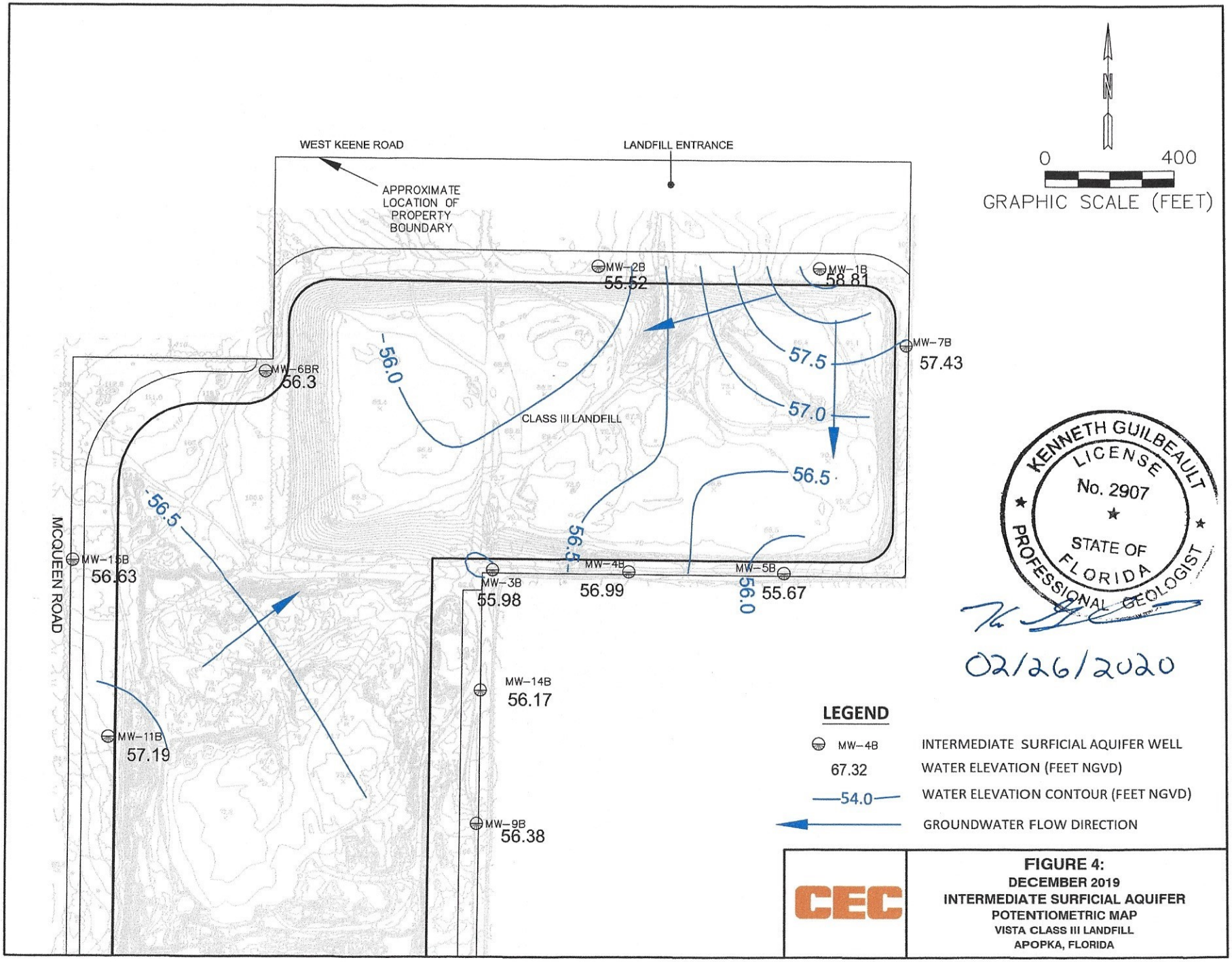
FIGURE 3:
DECEMBER 2019
SHALLOW SURFICIAL AQUIFER
WATER TABLE MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA


WEST KEENE ROAD
LANDFILL ENTRANCE
APPROXIMATE LOCATION OF PROPERTY BOUNDARY
MW-2B
55.52
MW-1B
58.81
MW-7B
57.43
MW-6BR
56.3
56.0
CLASS III LANDFILL
57.5
57.0
56.5
56.5
56.5
MW-15B
56.63
MCQUEEN ROAD
MW-3B
55.98
MW-4B
56.99
MW-5B
55.67
56.0
MW-14B
56.17
MW-11B
57.19
MW-9B
56.38
0
400
GRAPHIC SCALE (FEET)
N
KENNETH GUILBEAULT
LICENSE
No. 2907
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST
02/26/2020
LEGEND
MW-4B
INTERMEDIATE SURFICIAL AQUIFER WELL
67.32
WATER ELEVATION (FEET NGVD)
54.0
WATER ELEVATION CONTOUR (FEET NGVD)
GROUNDWATER FLOW DIRECTION
CEC
FIGURE 4:
DECEMBER 2019
INTERMEDIATE SURFICIAL AQUIFER
POTENTIOMETRIC MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

lateral inflow to the shallow surficial aquifer from outside the Site. The flow direction is consistent with previous flow assessments at the Site.

3.2 Intermediate Surficial Aquifer (Lower Zone)

A potentiometric map of the intermediate surficial aquifer was prepared from intermediate surficial well data for the December 2019 sampling event (Figure 4). Groundwater flow within the intermediate surficial aquifer beneath the Site apparently consists of multiple flow regimes, as indicated by the groundwater flow direction arrows on Figure 4. Groundwater entering from the site's western boundary flows east and northeast towards a slight low on the site's northern boundary. A portion of the groundwater enters near the northeast corner of the site and moves to the south and southeast. This groundwater flow configuration is a combination of interchange of groundwater with the overlying shallow surficial aquifer and lateral inflow to the intermediate surficial aquifer from outside the Site. These flow directions are consistent with previous flow assessments at the Site.

3.3 Floridan Aquifer (Deep Zone)

Due to the limited number of "FL" zone wells for the site (MW-FL2R is a deep surficial aquifer monitoring well), potentiometric maps were not prepared. Regional potentiometric maps for the Floridan aquifer indicate that flow in the aquifer at the Site is towards the northeast. This is confirmed by the water levels observed at the Site at Floridan aquifer groundwater monitoring wells MW-FL1 and MW-FL3 (see Table 1).

4 MONITORING PROGRAM

The monitoring program consists of Shallow and Intermediate surficial aquifer groundwater monitoring and Floridan Aquifer groundwater monitoring. Semi-annual reporting of the results of groundwater sampling is performed in accordance with the Site's MPIS and rule 62-701.730 (8)(c).

4.1 Groundwater Monitoring Program

The surficial aquifer groundwater currently is monitored at the site at 23 locations. The surficial aquifer is monitored in two zones: the shallow zone ("A" wells) and the lower zone ("B" wells). The shallow zone is monitored semi-annually and the lower zone is sampled annually, during the December sampling event. The lower zone wells were sampled during this December 2019 sampling event. The deep zone wells are used as piezometers with no routine sampling unless there are verified landfill impacts in the lower zone water unit.

Well and well/piezometer locations are shown on Figure 2. The monitoring wells, with their monitored zone and permitted designations as background or compliance, are listed in Table 2. The construction details for the 26 monitoring wells and piezometers comprising the monitoring system are included in Table 3.

Table 2. Active Surficial Aquifer Groundwater Monitoring Wells at the Vista Landfill

Shallow Zone	Lower Zone
Background Monitoring Wells	
MW-1A	MW-1B
MW-2AR	MW-2B
MW-6AR	MW-6BR
MW-7A	
MW-8R	
Compliance Monitoring Wells	
MW-3A	MW-3B
MW-4A	MW-4B
MW-5A	MW-5B
	MW-7B
MW-9A	MW-9B
MW-11A	MW-11B
MW-14A	MW-14B
MW-15A	MW-15B

Note:

1. Wells listed on the same row are part of a cluster of wells.

TABLE 3. EXISTING MONITORING LOCATIONS AND CONSTRUCTION DETAILS, VISTA LANDFILL, APOPKA, FLORIDA

WACS ID	Water Quality Monitoring Site ID	Date Installed	Date Abandoned	Well Type	Aquifer Monitored	Top of Casing Elevation (NGVD)	Total Well Depth (Feet BLS)	Outer Casing Diameter/ Depth	Well Diameter	Screen Slot Size	Screen Length (feet)	Top of Screen (Feet BLS)	Bottom of Screen (Feet BLS)	Top of Screen (Feet NGVD)	Bottom of Screen (Feet NGVD)	Northing (NAD 1983)	Easting (NAD 1983)	Latitude (NAD 1983)	Longitude (NAD 1983)
19335	MW-1A[1]	4/20/2004	NA	BG	Shallow Surficial	109.47	69	NA	2	0.006	20	49	69	57	37	1565469.28	492550.11	28° 38' 21.30"	81° 30' 36.28"
19336	MW-1B	4/20/2004	NA	BG	Intermediate Surficial	109.53	96	NA	2	0.010	10	86	96	20	10	1565465.40	492545.32	28° 38' 21.27"	81° 30' 36.33"
19337	MW-2AR	1/23/2007	NA	BG	Shallow Surficial	87.22	39.94	NA	2	0.006	10	29.44	39.44	59.91	49.91	1565481.98	491815.07	28° 38' 21.40"	81° 30' 44.53"
19338	MW-2B	4/22/2004	NA	BG	Intermediate Surficial	88.46	73	NA	2	0.006	10	63	73	20	10	1565471.82	491843.09	28° 38' 21.30"	81° 30' 44.21"
19339	MW-3A	4/13/2004	NA	CO	Shallow Surficial	92.87	56	NA	2	0.006	30	36	56	57	37	1564509.87	491522.95	28° 38' 11.76"	81° 30' 47.76"
19340	MW-3B	4/13/2004	NA	CO	Intermediate Surficial	93.06	83	NA	2	0.010	10	73	83	20	10	1564509.53	491514.75	28° 38' 11.76"	81° 30' 47.85"
19341	MW-4A	4/14/2004	NA	CO	Shallow Surficial	82.04	42	NA	2	0.006	20	22	42	57	37	1564505.59	491949.09	28° 38' 11.74"	81° 30' 42.98"
19342	MW-4B	4/14/2004	NA	CO	Intermediate Surficial	83.18	69	NA	2	0.006	10	59	69	20	10	1564505.16	491941.64	28° 38' 11.73"	81° 30' 43.06"
19343	MW-5A	4/14/2004	NA	CO	Shallow Surficial	81.86	40	NA	2	0.006	20	20	40	57	37	1564500.86	492441.55	28° 38' 11.71"	81° 30' 37.45"
19344	MW-5B	4/14/2004	NA	CO	Intermediate Surficial	81.27	67	NA	2	0.006	10	57	67	20	10	1564500.47	492433.39	28° 38' 11.71"	81° 30' 37.54"
19345	MW-6AR	1/30/2007	NA	BG	Shallow Surficial	104.11	69.37	NA	2	0.010	20	48.87	68.87	52.27	32.27	1565140.42	490793.55	28° 38' 17.97"	81° 30' 55.98"
19346	MW-6BR	1/30/2007	NA	BG	Intermediate Surficial	103.99	88.58	NA	2	0.010	10	78.08	88.08	22.98	12.98	1565137.25	490795.56	28° 38' 17.94"	81° 30' 55.95"
19347	MW-7A	4/20/2004	NA	BG	Shallow Surficial	109.26	69	NA	2	0.006	20	49	69	57	37	1565230.04	492821.74	28° 38' 18.95"	81° 30' 33.22"
19348	MW-7B	4/19/2004	NA	CO	Intermediate Surficial	109.13	96	NA	2	0.01	10	86	96	20	10	1565222.30	492821.61	28° 38' 18.87"	81° 30' 33.22"
19868	MW-8R	1/25/2007	NA	BG	Shallow Surficial	99.6	72.12	NA	2	0.006	10	61.62	71.72	35.05	25.05	1565489.06	490997.80	28° 38' 21.43"	81° 30' 53.70"
19869	MW-9A	5/26/2017	NA	CO	Shallow Surficial	99.45	60	NA	2	0.010	20	40	60			1563710.84	491467.69	28° 38' 03.85"	81° 30' 48.345"
19870	MW-9B	5/26/2017	NA	CO	Lower Surficial	99.52	85	NA	2	0.006	10	75	85			1563705.66	491466.69	28° 38' 03.79"	81° 30' 48.355"
19873	MW-11A	8/18/2017	NA	DE	Shallow Surficial	96.35	55	NA	2	0.010	20	35	55			1563983.69	490293.90	28° 38' 03.79"	81° 30' 48.355"
19874	MW-11B	8/25/2017	NA	DE	Lower Surficial	96.37	85	NA	2	0.006	10	75	85			1563977.43	490292.60	28° 38' 06.437"	81° 30' 01.542"
21926	MW-14A	5/26/2017	NA	CO	Shallow Surficial	100.62	55	NA	2	0.010	20	35	55			1564122.62	491470.84	28° 38' 07.927"	81° 30' 48.306"
21927	MW-14B	ND	NA	CO	Lower Surficial	100.1	ND	ND	2	ND	ND	ND	ND	ND	ND	1564128.82	491477.36	28° 38' 07.987"	81° 30' 48.254"
21928	MW-15A	5/26/2017	NA	CO	Shallow Surficial	105.27	65	NA	2	0.010	20	45	65			1564542.92	490180.97	28° 38' 12.032"	81° 31' 02.823"
21929	MW-15B	5/26/2017	NA	CO	Lower Surficial	105.15	90	NA	2	0.006	10	80	90			1564537.75	490180.69	28° 38' 11.979"	81° 31' 02.823"
19879	MW-FL1	4/13/2004	NA	CO	Floridan	93.16	125	NA	2	0.010	10	115	125	-45	-35	1564509.43	491507.05	28° 38' 11.76"	81° 30' 47.94"
19880	MW-FL2R	1/29/2007	NA	CO	Deep Surficial	86.76	129.95	6"/0' to 80'	2	0.006	10	119.45	129.45	-45.54	-35.54	1565501.29	491655.91	28° 38' 21.58"	81° 30' 46.32"
19881	MW-FL3	4/21/2004	NA	CO	Floridan	97.49	140	NA	2	0.010	10	130	140	-45	-35	1565463.35	492205.45	28° 38' 21.23"	81° 30' 40.15"

Notes:

1. Survey Information was obtained from the May 25, 2007 Geosyntec Consultants Environmental Monitoring Location Map.
2. Well construction information obtained from the July 2004, Collinas Group, Inc., Groundwater Monitoring Well Installation Report, Buttrey Landfill Parcel.
3. Well construction information obtained from the March 15, 2007, Professional Service Industries, Inc., Monitoring Well Completion and Well Abandonment Report.
4. NGVD = National Geodetic Vertical Datum of 1929.
5. NAD 1983 = North American Datum of 1983.
6. WACS = State Water Assurance Compliance System.
7. BLS = Below Landsurface.
8. NA = Not Applicable.
9. BG = Background.
10. CO = Compliance.
11. ND = Data not available.
12. OT = Other.
13. ID = Identification.
14. DE= Detection.

The current permit requires semi-annual sampling of the shallow zone and annual sampling of the lower zone for the field and laboratory parameters listed below.

Field Parameters

- Static Water Level (before purging)
- Specific Conductivity
- pH
- Dissolved Oxygen
- Turbidity
- Temperature

Shallow Zone Laboratory Parameters

- Total ammonia-nitrogen
- Chloride
- Iron
- Mercury
- Nitrate
- Sodium
- Total dissolved solids (TDS)
- Parameters listed in 40 Code of Federal Regulations (CFR) Part 258, Appendix I

Lower Zone Laboratory Parameters

- Total ammonia-nitrogen
- Chloride
- Sodium
- Nitrate

Lower zone wells should be sampled for the full list of parameters (see shallow zone laboratory parameters) if:

- The shallow well for the well cluster(s) shows a verified landfill impact; or
- The indicator data suggests through an increasing trend (or verified sudden jump far above background) that there is a landfill impact to the lower zone well(s).

4.2 Sample Collection Analysis

Groundwater sampling was conducted in accordance with F.A.C. Chapter 62-160 and FDEP's Standard Operating Procedures for Field Activities (DEP-SOP-001/01). ProTech field personnel collected groundwater samples for laboratory analysis from all monitoring wells listed in Section 4.1 between December 4, 5, and 9, 2019.

Groundwater monitoring wells that were sampled were purged with dedicated QED bladder pumps with Teflon-lined tubing extending to the top of the well casing. Wells were purged using low-flow sampling methods; a minimum of one well volume was purged prior to stabilization for wells where the water table is located within the well screen. Field parameters including static water level, pH, specific conductance, temperature, turbidity, dissolved oxygen, oxidation-reduction potential and color/sheen (by observation) were recorded during purging and prior to sampling. Once purging was complete, ProTech field personnel collected groundwater samples from the dedicated pumps and tubing in laboratory-provided containers, and placed the samples in coolers with ice. TestAmerica-Denver is certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP).

5 WATER QUALITY MONITORING RESULTS

This section summarizes the results of the groundwater quality sampling for the first semi-annual sampling event performed December 4, 5, and 9, 2019.

5.1 Quality Assurance and Quality Control (QA/QC) Results

ProTech field personnel collected one equipment blank during the December 2019 sampling event and submitted the samples with trip blanks in coolers containing volatile organic compound (VOC) samples to TestAmerica for analysis. The samples were received in good condition, properly preserved, and at proper temperatures. The laboratory provided additional QA/QC including analysis of method blanks, surrogates, laboratory control samples/laboratory control sample duplicates (LCS/LCSD), and matrix spike/matrix spike duplicates (MS/MSD). The QA/QC results for the laboratory reports associated with groundwater monitoring points from TestAmerica Report 131607 are summarized below:

- Low levels of Ammonia are present in the method blank associated with QC batches 280-481687 and 280-480209. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.
- The method 8011 and 8260B MS/MSD could not be performed, due to insufficient sample volume submitted. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data
- Laboratory generated MS/MSD analysis data have been provided. The MS/MSD for method 6010B exhibited spike compound recoveries outside the QC limits for Lead and Sodium. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.
- Laboratory generated MS/MSD analysis data have been provided. The MS/MSD for Nitrate method 300.0 exhibited spike compound recoveries outside the QC limits. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.
- Laboratory generated MS/MSD analysis data have been provided. The MS/MSD for method 350.1 exhibited spike compound recoveries outside the QC limits for Ammonia. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.
- Continuing Calibration Verification (CCV) standards associated with samples in batch 280-480281 exhibited %D values out of range, biased high, for 1,2-Dibromoethane. This is an indicator that data may be biased high. As no detectable concentrations of 1,2-Dibromoethane are present in the associated samples, corrective action is deemed unnecessary
- The 8011 analyst notated that sediment was present in the VOA vials for all of the samples except sample MW-6AR.
- Due to high analyte concentration, several samples were analyzed at a dilution for various analyses. The reporting limits have been adjusted relative to the dilution required.
- Other QA/QC issues were not identified; therefore, the remaining results from the December 2019 event are considered acceptable without qualification.

5.2 Groundwater Quality

The groundwater quality detections and exceedances of the primary or secondary drinking water standards are summarized in Table 4. In accordance with Chapter 62-701, FAC, groundwater results were compared to their respective PDWS or secondary drinking water standard (SDWS) established in Chapter 62-550, FAC and incorporated via reference in Chapter 62-520, FAC. For this routine groundwater monitoring report, groundwater cleanup target levels (GCTLs) in Rule 62-777, FAC, were used for constituents that do not have a PDWS or SDWS to evaluate if a parameter is significantly above background levels. GCTLs are used as a screening GCTLs are used as a screening tool for potential anomalies in the concentration data that may require further consideration or review. Appendix A includes the laboratory analytical data and field forms.

5.2.1 Metals Exceedances

Metals with concentrations in excess of applicable groundwater standards in select wells include:

- Iron
- Mercury

These exceedances are discussed below and are listed in Table 4.

5.2.1.1 Iron

The concentration of iron in the groundwater ranged from non-detect to 2,300 micrograms per liter (μg/L) during the December 2019 sampling event. The FDEP SDWS of 300 μg/L for iron was exceeded at MW-7A (2,300 μg/L). The iron concentrations are not due to landfill operations. Iron at MW-7A and MW-9A will continue to be closely monitored in subsequent sampling events.

5.2.1.2 Mercury

During the December 2019 sampling event, mercury exceeded its PDWS in background monitoring well MW-6AR. The FDEP PDWS of 2 μg/L for mercury was exceeded during the second semi-annual monitoring period in background monitoring well MW-6AR (2.76 μg/L). The dissolved methane concentration was not detected in the collected sample (December 2017). This indicates that the source is not related to landfill gas and since this well is up-gradient from the landfill, the source appears to be from off-site (possibly the RIBs facilities). Mercury analysis will continue to be performed during the next monitoring event.

Table 4. Summary of Groundwater Quality Analytical Results (Detected Parameters Only)
Vista Landfill, December 2019

Parameter	Units	MCL	Standard	MW-1A	MW-1B	MW-2AR	MW-2B	MW-3A	MW-3B	MW-4A	MW-4B	MW-5A	MW-5B	MW-6AR	MW-6BR	MW-7A	MW-7B	MW-8R	MW-9A	MW-9B	MW-11A	MW-11A	MW-11B	MW-14A	MW-14B	MW-15A	MW-15B
Well Type				BG	BG	BG	BG	CO	CO	CO	CO	CO	CO	BG	BG	BG	CO	BG	CO	CO	DE	Resample	DE	CO	CO	CO	CO
Volatile Organic Compounds																											
Carbon disulfide	ug/L	NS	NS	0.19 **I**	---	0.58 **IV**	---	0.17 **U**	---	0.17 **U**	---	0.17 **U**	---	0.17 **U**	---	0.17 **U**	---	0.17 **U**	0.17 **U**	---	0.17 **U**	---	---	0.17 **U**	---	0.17 **U**	---
Chloroform	ug/L	NS	NS	0.46 **I**	---	0.16 **U**	---	0.16 **U**	---	0.16 **U**	---	0.16 **U**	---	0.16 **U**	---	0.16 **U**	---	0.16 **U**	0.16 **U**	---	0.16 **U**	---	---	0.16 **U**	---	0.16 **U**	---
Metals																											
Arsenic	ug/L	10	PDWS	0.33 **U**	---	0.33 **U**	---	0.33 **U**	---	0.33 **U**	---	0.33 **U**	---	0.33 **U**	---	2.5 **I**	---	0.67 **I**	0.33 **U**	---	1.5 **I**	---	---	1.6 **I**	---	0.33 **U**	---
Barium	ug/L	2000	PDWS	27	---	15	---	29	---	14	---	36	---	19	---	17	---	30	5.7 **I**	---	19	---	---	9.5 **I**	---	3.7 **I**	---
Beryllium	ug/L	4	PDWS	0.08 **U**	---	0.084 **I**	---	0.091 **I**	---	0.08 **U**	---	0.08 **U**	---	0.11 **I**	---	0.08 **U**	---	0.08 **U**	0.08 **U**	---	0.086 **I**	---	---	0.08 **U**	---	0.08 **U**	---
Cadmium	ug/L	5	PDWS	0.45 **U**	---	0.45 **U**	---	0.57 **I**	---	0.45 **U**	---	0.45 **U**	---	0.52 **I**	---	0.45 **U**	---	0.45 **U**	0.45 **U**	---	0.72 **I**	---	---	0.45 **U**	---	0.45 **U**	---
Chromium	ug/L	100	PDWS	0.66 **U**	---	0.66 **U**	---	0.66 **U**	---	0.66 **U**	---	0.66 **U**	---	0.66 **U**	---	0.66 **U**	---	0.66 **U**	1.9 **I**	---	2.9 **I**	---	---	0.93 **I**	---	0.66 **U**	---
Cobalt	ug/L	NS	NS	1.2 **I**	---	1.2 **U**	---	1.2 **U**	---	1.2 **U**	---	1.2 **U**	---	1.2 **U**	---	1.2 **U**	---	1.2 **U**	1.2 **U**	---	1.2 **U**	---	---	1.2 **U**	---	1.2 **U**	---
Iron	ug/L	300	SDWS	47 **I**	---	41 **I**	---	71 **I**	---	25 **I**	---	40 **I**	---	22 **U**	---	2300	---	25 **I**	210	---	230	---	---	220	---	100	---
Mercury	ug/L	2	PDWS	0.027 **U**	---	0.027 **U**	---	0.027 **U**	---	0.027 **U**	---	0.048 **I**	---	2.6	---	0.027 **U**	---	0.028 **I**	0.027 **U**	---	0.027 **U**	---	---	0.027 **U**	---	0.66	---
Sodium	mg/L	160	PDWS	8.2	5.2	1.3	4.8	2.4 **V**	4.7 **V**	1.4 **V**	2.1 **V**	2 **V**	3.7	9.1	6.8	7.1	6.5	7.6	3 **V**	11	11	---	5.9 **V**	4.7 **V**	6.3 **V**	4 **V**	3.8 **V**
Thallium	ug/L	2	PDWS	0.089 **U**	---	0.089 **U**	---	0.089 **U**	---	0.089 **U**	---	0.089 **U**	---	0.089 **U**	---	0.089 **U**	---	0.089 **U**	0.089 **U**	---	0.37 **I**	---	---	0.11 **I**	---	0.089 **U**	---
Vanadium	ug/L	NS	NS	1.1 **U**	---	1.1 **U**	---	1.1 **U**	---	1.1 **U**	---	1.3 **I**	---	1.1 **U**	---	1.5 **I**	---	1.7 **I**	2.7 **I**	---	2.5 **I**	---	---	1.5 **I**	---	1.1 **I**	---
Zinc	ug/L	5000	SDWS	4.5 **U**	---	4.5 **U**	---	7.1 **I**	---	120	---	9.7 **I**	---	4.8 **I**	---	4.5 **U**	---	4.5 **U**	4.5 **U**	---	9.2 **I**	---	---	4.5 **U**	---	4.5 **U**	---
General Chemistry																											
Ammonia (N)	mg/L	NS	NS	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**	0.023 **I**	0.022 **U**	0.022 **U**	0.041 **I**	0.022 **U**	---	0.029 **I**	0.022 **U**	0.022 **U**	0.022 **U**	0.022 **U**
Chloride	mg/L	250	SDWS	13	7.1	1.9 **I**	4.4	4	8.3	1.8 **I**	3.1	2.7 **I**	6.3	24	18	11	3.6	9	3.1	21	6.9	---	6.5	7.4	5.9	5.2	4.1
Nitrate (N)	mg/L	10	PDWS	10	0.46 **I**	0.32 **I**	0.76	0.47 **I**	1.1	0.66	1	2	0.26 **I**	5.1	2.4	7.8	0.12 **I**	3.4	0.18 **I**	0.14 **I**	13	11	0.09 **U**	1.8	0.09 **U**	0.42 **I**	0.74
Residues- Filterable (TDS)	mg/L	500	SDWS	280	---	30	---	44	---	68	---	98	---	110	---	210	---	190	65	---	250	---	---	63	---	29	---
Field Parameters																											
Conductivity	umhos/cm	NS	NS	396	211	51	149	73	211	81	48	130	199	181	269	283	139	247	96	339	339	326	257	84	136	60	138
Dissolved Oxygen	mg/L	NS	NS	0.5	0.2	5.4	0.2	1.3	2	4.6	0.7	3.6	0.1	2.5	1.2	1.1	0.1	1.6	2	0.2	2.4	2.4	0.2	2	0.2	3.3	2.2
Dissolved Oxygen	% Sat.			5.83	2.29	64.15	2.42	14.87	23.31	54.65	8.32	43.57	1.21	30.26	14.26	12.82	1.14	19.01	23.76	2.33	28.51	28.51	2.38	23.31	2.38	39.94	26.13
pH	SU	6.5-8.5	SDWS	7.4	7.69	5.3	7.99	5.44	7.08	6.03	5.41	5.64	7.85	5.49	7.92	7.17	7.63	6.91	7.05	7.75	7.74	7.73	7.87	5.91	7.74	5.28	6.73
Temperature, Water	deg C	NS	NS	22.6	22.5	24	25.1	22.3	22.7	24	24.2	25.1	24.6	24.6	24.4	22.7	22.2	24	23.5	23.4	23.8	23.9	23.8	22.9	23.8	24.7	23.5
Turbidity	NTU	NS	NS	3.56	3.9	3.59	3.22	2.72	3.53	2.39	3.13	3.77	3.28	3.09	3.34	3.79	3.88	4.61	2.32	5.82	8.64	8.03	6.93	6.54	3.77	3.99	8.12

NOTES:

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. Groundwater Clean-Up Target Level (62-777 F.A.C.) are used for screening purposes only to evaluate if a parameter is significantly above background levels.
4. MPIS = Monitoring Plan Implementation Schedule
5. NS = No numeric standard has been set for this analyte.
6. mg/L = milligrams per liter
7. ug/L= micrograms per liter
8. NTU = nephelometric turbidity units
9. Yellow shaded values indicate parameter concentrations exceeded respective PDWS or SDWS.
10. Degrees C = Degrees Celcius
11. umhos/cm = micromhos per centimeter
12. % Sat = Percent saturation
13. **U** = Analyte concentration was below the laboratory detection limit (value shown).
14. **I** = Analyte concentration was between the laboratory detection limit and laboratory practical.
15. **V** = Analyte was detected in the sample and an associated method blank.
16. **Q =** Sample held beyond the accepted holding time.
17. BG= Background well
18. CO = Compliance well
19. Percent saturation of dissolved oxygen calculated from http://www.fivecreeks.org/monitor/do.html.
20. --- = Parameter not collected.

5.2.2 Inorganic Parameters Exceedances

Nitrate and dissolved oxygen exceeded their applicable standards at specific wells. Additionally, the pH concentrations at some monitoring wells fell outside the SDWS range for pH. These parameters are discussed below.

5.2.2.1 Nitrate

The FDEP PDWS of 10 milligrams per liter (mg/L) for nitrate was exceeded at detection well MW-11A (13 mg/L). This concentration was slightly above historical concentrations and the well was scheduled to be re-sample to verify the detection. On February 13, 2020, detection well MW-11A was resampled for nitrate. Nitrate was detected during the resample event at MW-11A (11 mg/L). The results of the initial monitoring event at MW-11A were confirmed.

No exceedances of nitrate occurred at other monitoring wells. Traditional leachate indicator parameters at MW-11A have remained relatively steady which indicates the nitrate is likely from a source other than the landfill. This well is located cross gradient to the landfill. Nitrate at MW-11A will continue to be closely monitored in subsequent sampling events.

5.2.2.2 Dissolved Oxygen

Dissolved oxygen values (calculated from field measurements) were above the Site's MPIS limit of not greater than 20 percent oxygen saturation in background monitoring wells MW-2AR (64.15%) and MW-6AR (30.26%), and monitoring wells MW-3B (23.31%), MW-4A (54.65%), MW-5A (43.57%), MW-9A (23.76%), MW-11A (28.51%), MW_14A (23.31%), MW-15A (39.94%), and MW-15B (26.13%).

The monitoring wells were purged and sampled with a bladder pump at low flow rates as indicated by their relative gallons per minute (gpm) pumping rates as follows: MW-2AR (0.15 gpm), MW-3B (0.3 gpm), MW-4A (0.2 gpm), MW-5A (0.2 gpm), MW-6AR (0.21 gpm), MW-9A (0.23 gpm), MW-11A (0.22gpm), MW_14A (0.22 gpm), MW-15A (0.27), and MW-15B (0.18 gpm). During the stabilization readings, the dissolved oxygen concentrations remained relatively steady. These measurements were collected using low flow techniques and are considered to be a natural characteristic of the aquifer system at these wells.

5.2.2.3 pH

The pH was below the SDWS range of 6.5 to 8.5 units in background monitoring wells MW-2AR (5.3 units) and MW-6AR (5.49 units) and in compliance wells MW-3A (5.44 units), MW-4A (6.03 units), MW-4B (5.41 units), MW-5A (5.64 units), MW-14A (5.91 units), and MW-15A (5.28 units). Low groundwater pH in this region is the result of low pH in precipitation, rapid recharge, and little buffering capacity of the surficial sands. The pH levels observed at the Site are characteristic of the groundwater in this region of Florida.

5.2.3 Organic Parameters Exceedances

There were no exceedances of organic parameters during the December 2019 monitoring event.

There were low level volatile organic compound (VOC) detections of carbon disulfide and chloroform. Carbon disulfide was detected an an estimated concentration in background monitoring wells MW-1A (0.19 **I** µg/L) and MW-2AR (0.58 **IV** µg/L). Chloroform was detected at an estimated concentration in background monitoring well MW-1A (0.46 **I** µg/L). The "**I**" qualifier indicates that the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. The "**V**" qualifier indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

6 SUMMARY

This section summarizes the December 2019 semi-annual findings based on the groundwater sampling results.

6.1 Groundwater Sampling Results

The groundwater flow assessment shows the following:

- Shallow surficial aquifer groundwater in the vicinity of the site flows primarily toward the southwest corner of the landfill.
- Groundwater flow direction in the intermediate surficial aquifer is variable with groundwater flowing into the site from the northeast corner and flowing to the south and southeast.
- In the intermediate surficial aquifer, the groundwater also flows into the site from the southern and western boundaries flowing to the northern boundary and southeast corner of the site.
- Regional potentiometric maps for the Floridan aquifer indicate that flow is towards the northeast and is confirmed by the data from the Floridan aquifer monitoring wells.

The analytical results from analysis of the groundwater samples shows the following:

- There were no verified landfill impacts during the December 2019 monitoring event.
- Nitrate exceeded its PDWS in monitoring wells MW-11A. This concentration was slightly above historical concentrations and the well was scheduled to be re-sample to verify the detection. On February 13, 2020, detection well MW-11A was resampled for nitrate. The results of the initial monitoring event were confirmed. Traditional leachate indicator parameters at MW-11A have remained relatively steady which indicates the nitrate is likely from a source other than the landfill. Monitoring well MW-11A is located cross gradient from the landfill.
- Iron exceeded its SDWS in background monitoring well MW-7A.
- Mercury exceeded its PDWS in background monitoring well MW-6AR. The mercury concentration is from an off-site source (possibly associated with local RIBs facilities) and not related to landfill operations.
- Dissolved oxygen values (field measurement) were above the Site's MPIS limit of not greater than 20% oxygen saturation in the groundwater background monitoring wells MW-2AR and MW-6AR, and monitoring wells MW-3B, MW-4A, MW-5A, MW-9A, MW-11A, MW_14A, MW-15A, and MW-15B. These measurements were collected using low flow techniques and are considered to be a natural characteristic of the aquifer system at these wells.
- Field pH levels fell outside the SDWS range for pH at select monitoring wells. The low pH levels in select monitoring wells are attributed to Florida's ambient groundwater quality characteristics due to low pH rainfall, rapid recharge, and the limited buffering capability of Florida's sandy soils.

Detection monitoring should continue as outlined in the MPIS.

APPENDIX A

LABORATORY ANALYTICAL RESULTS AND FIELD FORMS

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 280-131607-1
Client Project/Site: FL26|Vista
Sampling Event: Annual Intermediate Wells - Dec
Semiannual GW Parameters June Dec
Revision: 1

For:
Waste Management
14415 CR 39
Duette, Florida 34219

Attn: Elizabeth Foeller

Danielle Harrington

Authorized for release by:
1/21/2020 10:06:17 AM

Danielle Harrington, Project Manager II
(303)736-0176
danielle.harrington@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

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

Job ID: 280-131607-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: FL26|Vista

Report Number: 280-131607-1

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

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

This submission may contain field data obtained by the sampler. The methods referenced in this submission for the field data results may not be the methods used to obtain the field data by the sampler.

RECEIPT

The samples were received on 12/05/2019 at a temperature of 3.3C and 4.3C. These samples are logged under job 280-131607-1.

The samples were received on 12/05/2019 at a temperature of 3.3C and 4.3C. These samples are logged under job 280-131609-1.

The samples were received on 12/06/2019 at a temperature of 0.3C, 3.0C, and 1.5C. These samples are logged under job 280-131664-1.

The samples were received on 12/06/2019 at a temperature of 0.3C, 3.0C, and 1.5C. These samples are logged under job 280-131668-1.

The samples were received on 12/10/2019 at a temperature of 2.3C, 0.9C, and 4.2C. These samples are logged under job 280-131756-1.

The samples were received on 12/10/2019 at a temperature of 2.3C, 0.9C, and 4.2C. These samples are logged under job 280-131758-1.

All sample bottles were received in acceptable condition.

HOLDING TIMES

All Holding Times were met.

METHOD BLANKS

Low levels of Ammonia are present in the method blank associated with QC batches 280-481687 and 280-480209. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

All other Method Blanks were within the acceptance limits.

LABORATORY CONTROL SAMPLES (LCS)

All Laboratory Control Samples were within the acceptance limits.

MATRIX SPIKE (MS) and MATRIX SPIKE DUPLICATES (MSD)

Job ID: 280-131607-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

The method 8011 and 8260B MS/MSD could not be performed, due to insufficient sample volume submitted. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

Laboratory generated MS/MSD analysis data have been provided. The MS/MSD for method 6010B exhibited spike compound recoveries outside the QC limits for Lead and Sodium. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Laboratory generated MS/MSD analysis data have been provided. The MS/MSD for Nitrate method 300.0 exhibited spike compound recoveries outside the QC limits. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Laboratory generated MS/MSD analysis data have been provided. The MS/MSD for method 350.1 exhibited spike compound recoveries outside the QC limits for Ammonia. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

ORGANICS

Continuing Calibration Verification (CCV) standards associated with samples in batch 280-480281 exhibited %D values out of range, biased high, for 1,2-Dibromoethane. This is an indicator that data may be biased high. As no detectable concentrations of 1,2-Dibromoethane are present in the associated samples, corrective action is deemed unnecessary.

The 8011 analyst notated that sediment was present in the VOA vials for all of the samples except sample MW-6AR.

GENERAL CHEMISTRY

Some samples were analyzed at dilutions for various analyses. The reporting limits have been adjusted accordingly.

REVISION

PM inadvertently added the wrong COC file that did not contain the field forms to the report for samples MW-3A, MW-4A, MW-9A, MW-11A, MW-14A, MW-15A. The report has been revised to include the field forms for these samples.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-1B — Lab Sample ID: 280-131607-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	5.2		1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	7.1		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.46	I	0.50	0.090	mg/L	1		300.0	Total/NA
Groundwater Elevation	58.81				ft/msl	1		Field Sampling	Total/NA
Field pH	7.69				SU	1		Field Sampling	Total/NA
Field Conductivity	211				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.90				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-7B — Lab Sample ID: 280-131607-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	6.5		1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	3.6		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.12	I	0.50	0.090	mg/L	1		300.0	Total/NA
Ammonia as N	0.023	I	0.10	0.022	mg/L	1		350.1	Total/NA
Groundwater Elevation	57.43				ft/msl	1		Field Sampling	Total/NA
Field pH	7.63				SU	1		Field Sampling	Total/NA
Field Conductivity	139				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.88				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.1				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-5B — Lab Sample ID: 280-131607-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	3.7		1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	6.3		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.26	I	0.50	0.090	mg/L	1		300.0	Total/NA
Groundwater Elevation	55.67				ft/msl	1		Field Sampling	Total/NA
Field pH	7.85				SU	1		Field Sampling	Total/NA
Field Conductivity	199				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.28				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.1				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-1A — Lab Sample ID: 280-131609-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.19	I	2.0	0.17	ug/L	1		8260B	Total/NA
Chloroform	0.46	I	1.0	0.16	ug/L	1		8260B	Total/NA
Barium	27		10	0.82	ug/L	1		6010B	Total Recoverable
Cobalt	1.2	I	10	1.2	ug/L	1		6010B	Total Recoverable
Iron	47	I	100	22	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-1A (Continued) — Lab Sample ID: 280-131609-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.2		1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	13		6.0	2.0	mg/L	2		300.0	Total/NA
Nitrate as N	10		1.0	0.18	mg/L	2		300.0	Total/NA
Total Dissolved Solids	280		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	68.54				ft/msl	1		Field Sampling	Total/NA
Field pH	7.40				SU	1		Field Sampling	Total/NA
Field Conductivity	396				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.56				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.5				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-7A — Lab Sample ID: 280-131609-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	17		10	0.82	ug/L	1		6010B	Total Recoverable
Iron	2300		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.5	I	10	1.1	ug/L	1		6010B	Total Recoverable
Sodium	7.1		1.0	0.37	mg/L	1		6010B	Total Recoverable
Arsenic	2.5	I	5.0	0.33	ug/L	1		6020	Total Recoverable
Chloride	11		6.0	2.0	mg/L	2		300.0	Total/NA
Nitrate as N	7.8		1.0	0.18	mg/L	2		300.0	Total/NA
Total Dissolved Solids	210		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	70.63				ft/msl	1		Field Sampling	Total/NA
Field pH	7.17				SU	1		Field Sampling	Total/NA
Field Conductivity	283				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.79				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.1				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-5A — Lab Sample ID: 280-131609-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	36		10	0.82	ug/L	1		6010B	Total Recoverable
Iron	40	I	100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.3	I	10	1.1	ug/L	1		6010B	Total Recoverable
Zinc	9.7	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	2.0	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Mercury	0.048	I	0.20	0.027	ug/L	1		7470A	Total/NA
Chloride	2.7	I	3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	2.0		0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	98		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	57.44				ft/msl	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5A (Continued) — Lab Sample ID: 280-131609-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.64				SU	1		Field Sampling	Total/NA
Field Conductivity	130				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.77				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.6				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-131609-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	I	20	1.9	ug/L	1		8260B	Total/NA
Methylene Chloride	3.2		2.0	0.94	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 280-131664-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	29		10	0.82	ug/L	1		6010B	Total Recoverable
Cadmium	0.57	I	5.0	0.45	ug/L	1		6010B	Total Recoverable
Iron	71	I	100	22	ug/L	1		6010B	Total Recoverable
Zinc	7.1	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	2.4	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Beryllium	0.091	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Chloride	4.0		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.47	I	0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	44		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	56.02				ft/msl	1		Field Sampling	Total/NA
Field pH	5.44				SU	1		Field Sampling	Total/NA
Field Conductivity	73				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.72				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.3				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 280-131664-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	14		10	0.82	ug/L	1		6010B	Total Recoverable
Iron	25	I	100	22	ug/L	1		6010B	Total Recoverable
Zinc	120		20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	1.4	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	1.8	I	3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.66		0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	68		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	56.01				ft/msl	1		Field Sampling	Total/NA
Field pH	6.03				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4A (Continued) — Lab Sample ID: 280-131664-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Conductivity	81				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.39				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.6				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-14A — Lab Sample ID: 280-131664-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	9.5	I	10	0.82	ug/L	1		6010B	Total Recoverable
Chromium	0.93	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	220		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.5	I	10	1.1	ug/L	1		6010B	Total Recoverable
Sodium	4.7	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Arsenic	1.6	I	5.0	0.33	ug/L	1		6020	Total Recoverable
Thallium	0.11	I	1.0	0.089	ug/L	1		6020	Total Recoverable
Chloride	7.4		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	1.8		0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	63		10	4.7	mg/L	1		SM 2540C	Total/NA
Field pH	5.91				SU	1		Field Sampling	Total/NA
Field Conductivity	84				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.54				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.0				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-9A — Lab Sample ID: 280-131664-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	5.7	I	10	0.82	ug/L	1		6010B	Total Recoverable
Chromium	1.9	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	210		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	2.7	I	10	1.1	ug/L	1		6010B	Total Recoverable
Sodium	3.0	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	3.1		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.18	I	0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	65		10	4.7	mg/L	1		SM 2540C	Total/NA
Field pH	7.05				SU	1		Field Sampling	Total/NA
Field Conductivity	96				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.32				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.0				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-11A — Lab Sample ID: 280-131664-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	19		10	0.82	ug/L	1		6010B	Total Recoverable
Cadmium	0.72	I	5.0	0.45	ug/L	1		6010B	Total Recoverable
Chromium	2.9	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	230		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	2.5	I	10	1.1	ug/L	1		6010B	Total Recoverable
Zinc	9.2	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	11		1.0	0.37	mg/L	1		6010B	Total Recoverable
Arsenic	1.5	I	5.0	0.33	ug/L	1		6020	Total Recoverable
Beryllium	0.086	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Thallium	0.37	I	1.0	0.089	ug/L	1		6020	Total Recoverable
Chloride	6.9		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	13		1.0	0.18	mg/L	2		300.0	Total/NA
Total Dissolved Solids	250		10	4.7	mg/L	1		SM 2540C	Total/NA
Field pH	7.74				SU	1		Field Sampling	Total/NA
Field Conductivity	339				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.64				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.4				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-15A — Lab Sample ID: 280-131664-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	3.7	I	10	0.82	ug/L	1		6010B	Total Recoverable
Iron	100		100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.1	I	10	1.1	ug/L	1		6010B	Total Recoverable
Sodium	4.0	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Mercury	0.66		0.20	0.027	ug/L	1		7470A	Total/NA
Chloride	5.2		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.42	I	0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	29		10	4.7	mg/L	1		SM 2540C	Total/NA
Field pH	5.28				SU	1		Field Sampling	Total/NA
Field Conductivity	60				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.99				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.3				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 280-131664-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.2	I	20	1.9	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3B — Lab Sample ID: 280-131668-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	4.7	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	8.3		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	1.1		0.50	0.090	mg/L	1		300.0	Total/NA
Groundwater Elevation	55.98				ft/msl	1		Field Sampling	Total/NA
Field pH	7.08				SU	1		Field Sampling	Total/NA
Field Conductivity	211				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.53				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.0				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-4B — Lab Sample ID: 280-131668-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	2.1	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	3.1		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	1.0		0.50	0.090	mg/L	1		300.0	Total/NA
Groundwater Elevation	56.99				ft/msl	1		Field Sampling	Total/NA
Field pH	5.41				SU	1		Field Sampling	Total/NA
Field Conductivity	48				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.13				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.7				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-14B — Lab Sample ID: 280-131668-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	6.3	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	5.9		3.0	1.0	mg/L	1		300.0	Total/NA
Field pH	7.74				SU	1		Field Sampling	Total/NA
Field Conductivity	136				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.77				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-9B — Lab Sample ID: 280-131668-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	11		1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	21		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.14	I	0.50	0.090	mg/L	1		300.0	Total/NA
Ammonia as N	0.041	I	0.10	0.022	mg/L	1		350.1	Total/NA
Field pH	7.75				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-9B (Continued) — Lab Sample ID: 280-131668-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Conductivity	339				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.82				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-11B — Lab Sample ID: 280-131668-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	5.9	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	6.5		3.0	1.0	mg/L	1		300.0	Total/NA
Ammonia as N	0.029	I	0.10	0.022	mg/L	1		350.1	Total/NA
Field pH	7.87				SU	1		Field Sampling	Total/NA
Field Conductivity	257				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.93				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-15B — Lab Sample ID: 280-131668-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	3.8	V	1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	4.1		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.74		0.50	0.090	mg/L	1		300.0	Total/NA
Field pH	6.73				SU	1		Field Sampling	Total/NA
Field Conductivity	138				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.12				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: Equipment Blank — Lab Sample ID: 280-131756-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.77				SU	1		Field Sampling	Total/NA
Field Conductivity	8				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.9				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-2B — Lab Sample ID: 280-131756-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	4.8		1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	4.4		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.76		0.50	0.090	mg/L	1		300.0	Total/NA
Groundwater Elevation	55.52				ft/msl	1		Field Sampling	Total/NA
Field pH	7.99				SU	1		Field Sampling	Total/NA
Field Conductivity	149				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2B (Continued) — Lab Sample ID: 280-131756-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.22				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-6BR — Lab Sample ID: 280-131756-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	6.8		1.0	0.37	mg/L	1		6010B	Total Recoverable
Chloride	18		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	2.4		0.50	0.090	mg/L	1		300.0	Total/NA
Groundwater Elevation	56.30				ft/msl	1		Field Sampling	Total/NA
Field pH	7.92				SU	1		Field Sampling	Total/NA
Field Conductivity	269				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.34				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: Equipment Blank — Lab Sample ID: 280-131758-1

No Detections.

Client Sample ID: MW-6AR — Lab Sample ID: 280-131758-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	19		10	0.82	ug/L	1		6010B	Total Recoverable
Cadmium	0.52	I	5.0	0.45	ug/L	1		6010B	Total Recoverable
Zinc	4.8	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	9.1		1.0	0.37	mg/L	1		6010B	Total Recoverable
Beryllium	0.11	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Mercury	2.6		0.20	0.027	ug/L	1		7470A	Total/NA
Chloride	24		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	5.1		0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	110		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	56.41				ft/msl	1		Field Sampling	Total/NA
Field pH	5.49				SU	1		Field Sampling	Total/NA
Field Conductivity	181				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.09				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.5				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-2AR — Lab Sample ID: 280-131758-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.58	I V	2.0	0.17	ug/L	1		8260B	Total/NA
Barium	15		10	0.82	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2AR (Continued) — Lab Sample ID: 280-131758-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	41	I	100	22	ug/L	1		6010B	Total Recoverable
Sodium	1.3		1.0	0.37	mg/L	1		6010B	Total Recoverable
Beryllium	0.084	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Chloride	1.9	I	3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.32	I	0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	30		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	56.92				ft/msl	1		Field Sampling	Total/NA
Field pH	5.30				SU	1		Field Sampling	Total/NA
Field Conductivity	51				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.59				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	5.4				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Client Sample ID: MW-8R — Lab Sample ID: 280-131758-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	30		10	0.82	ug/L	1		6010B	Total Recoverable
Iron	25	I	100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.7	I	10	1.1	ug/L	1		6010B	Total Recoverable
Sodium	7.6		1.0	0.37	mg/L	1		6010B	Total Recoverable
Arsenic	0.67	I	5.0	0.33	ug/L	1		6020	Total Recoverable
Mercury	0.028	I	0.20	0.027	ug/L	1		7470A	Total/NA
Chloride	9.0		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	3.4		0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids	190		10	4.7	mg/L	1		SM 2540C	Total/NA
Groundwater Elevation	58.16				ft/msl	1		Field Sampling	Total/NA
Field pH	6.91				SU	1		Field Sampling	Total/NA
Field Conductivity	247				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.61				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.6				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL DEN
7470A	Mercury (CVAA)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
Field Sampling	Field Sampling	EPA	TAL DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN
7470A	Preparation, Mercury	SW846	TAL DEN
8011	Microextraction	SW846	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

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.

Laboratory References:

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

Sample Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-131607-1	MW-1B	Water	12/04/19 10:22	12/05/19 09:20	
280-131607-2	MW-7B	Water	12/04/19 11:37	12/05/19 09:20	
280-131607-3	MW-5B	Water	12/04/19 12:51	12/05/19 09:20	
280-131609-1	MW-1A	Water	12/04/19 09:48	12/05/19 09:20	
280-131609-2	MW-7A	Water	12/04/19 11:02	12/05/19 09:20	
280-131609-3	MW-5A	Water	12/04/19 12:17	12/05/19 09:20	
280-131609-4	TRIP BLANK	Water	12/04/19 12:17	12/05/19 09:20	
280-131664-1	MW-3A	Water	12/05/19 07:00	12/06/19 09:30	
280-131664-2	MW-4A	Water	12/05/19 08:16	12/06/19 09:30	
280-131664-3	MW-14A	Water	12/05/19 09:39	12/06/19 09:30	
280-131664-4	MW-9A	Water	12/05/19 11:09	12/06/19 09:30	
280-131664-5	MW-11A	Water	12/05/19 12:13	12/06/19 09:30	
280-131664-6	MW-15A	Water	12/05/19 13:30	12/06/19 09:30	
280-131664-7	TRIP BLANK 1	Water	12/05/19 13:30	12/06/19 09:30	
280-131668-1	MW-3B	Water	12/05/19 07:35	12/06/19 09:30	
280-131668-2	MW-4B	Water	12/05/19 08:50	12/06/19 09:30	
280-131668-3	MW-14B	Water	12/05/19 10:23	12/06/19 09:30	
280-131668-4	MW-9B	Water	12/05/19 11:43	12/06/19 09:30	
280-131668-5	MW-11B	Water	12/05/19 12:44	12/06/19 09:30	
280-131668-6	MW-15B	Water	12/05/19 14:01	12/06/19 09:30	
280-131756-1	Equipment Blank	Water	12/09/19 10:15	12/10/19 09:55	
280-131756-2	MW-2B	Water	12/09/19 08:20	12/10/19 09:55	
280-131756-3	MW-6BR	Water	12/09/19 09:43	12/10/19 09:55	
280-131758-1	Equipment Blank	Water	12/09/19 10:15	12/10/19 09:55	
280-131758-2	MW-6AR	Water	12/09/19 09:11	12/10/19 09:55	
280-131758-3	MW-2AR	Water	12/09/19 07:42	12/10/19 09:55	
280-131758-4	MW-8R	Water	12/09/19 07:00	12/10/19 09:55	

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

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 17:35	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/14/19 17:35	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 17:35	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/14/19 17:35	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/14/19 17:35	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/14/19 17:35	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/14/19 17:35	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/14/19 17:35	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/14/19 17:35	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/14/19 17:35	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/14/19 17:35	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/14/19 17:35	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/14/19 17:35	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/14/19 17:35	1
Acetone	1.9	U	20	1.9	ug/L			12/14/19 17:35	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/14/19 17:35	1
Benzene	0.16	U	1.0	0.16	ug/L			12/14/19 17:35	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/14/19 17:35	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 17:35	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/14/19 17:35	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/14/19 17:35	1
Carbon disulfide	**0.19**	**I**	2.0	0.17	ug/L			12/14/19 17:35	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/14/19 17:35	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/14/19 17:35	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/14/19 17:35	1
Chloroform	**0.46**	**I**	1.0	0.16	ug/L			12/14/19 17:35	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/14/19 17:35	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 17:35	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/14/19 17:35	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 17:35	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/14/19 17:35	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/14/19 17:35	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/14/19 17:35	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/14/19 17:35	1
Styrene	0.36	U	1.0	0.36	ug/L			12/14/19 17:35	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/14/19 17:35	1
Toluene	0.17	U	1.0	0.17	ug/L			12/14/19 17:35	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 17:35	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/14/19 17:35	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/14/19 17:35	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/14/19 17:35	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/14/19 17:35	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/14/19 17:35	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/14/19 17:35	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/14/19 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*12/14/19 17:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/14/19 17:35*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/14/19 17:35*	*1*

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

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 125*		*12/14/19 17:35*	*1*

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 17:56	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/14/19 17:56	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 17:56	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/14/19 17:56	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/14/19 17:56	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/14/19 17:56	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/14/19 17:56	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/14/19 17:56	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/14/19 17:56	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/14/19 17:56	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/14/19 17:56	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/14/19 17:56	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/14/19 17:56	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/14/19 17:56	1
Acetone	1.9	U	20	1.9	ug/L			12/14/19 17:56	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/14/19 17:56	1
Benzene	0.16	U	1.0	0.16	ug/L			12/14/19 17:56	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/14/19 17:56	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 17:56	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/14/19 17:56	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/14/19 17:56	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/14/19 17:56	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/14/19 17:56	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/14/19 17:56	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/14/19 17:56	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/14/19 17:56	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/14/19 17:56	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 17:56	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/14/19 17:56	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 17:56	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/14/19 17:56	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/14/19 17:56	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/14/19 17:56	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/14/19 17:56	1
Styrene	0.36	U	1.0	0.36	ug/L			12/14/19 17:56	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/14/19 17:56	1
Toluene	0.17	U	1.0	0.17	ug/L			12/14/19 17:56	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 17:56	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/14/19 17:56	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/14/19 17:56	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/14/19 17:56	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/14/19 17:56	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/14/19 17:56	1

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

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/14/19 17:56	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/14/19 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*12/14/19 17:56*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*12/14/19 17:56*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*12/14/19 17:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/14/19 17:56*	*1*

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 18:17	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/14/19 18:17	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 18:17	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/14/19 18:17	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/14/19 18:17	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/14/19 18:17	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/14/19 18:17	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/14/19 18:17	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/14/19 18:17	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/14/19 18:17	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/14/19 18:17	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/14/19 18:17	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/14/19 18:17	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/14/19 18:17	1
Acetone	1.9	U	20	1.9	ug/L			12/14/19 18:17	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/14/19 18:17	1
Benzene	0.16	U	1.0	0.16	ug/L			12/14/19 18:17	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/14/19 18:17	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 18:17	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/14/19 18:17	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/14/19 18:17	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/14/19 18:17	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/14/19 18:17	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/14/19 18:17	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/14/19 18:17	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/14/19 18:17	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/14/19 18:17	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 18:17	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/14/19 18:17	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 18:17	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/14/19 18:17	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/14/19 18:17	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/14/19 18:17	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/14/19 18:17	1
Styrene	0.36	U	1.0	0.36	ug/L			12/14/19 18:17	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/14/19 18:17	1
Toluene	0.17	U	1.0	0.17	ug/L			12/14/19 18:17	1

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

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 18:17	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/14/19 18:17	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/14/19 18:17	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/14/19 18:17	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/14/19 18:17	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/14/19 18:17	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/14/19 18:17	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/14/19 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*12/14/19 18:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/14/19 18:17*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*12/14/19 18:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/14/19 18:17*	*1*

Client Sample ID: TRIP BLANK
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 18:38	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/14/19 18:38	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 18:38	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/14/19 18:38	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/14/19 18:38	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/14/19 18:38	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/14/19 18:38	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/14/19 18:38	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/14/19 18:38	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/14/19 18:38	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/14/19 18:38	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/14/19 18:38	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/14/19 18:38	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/14/19 18:38	1
Acetone	**14**	**I**	20	1.9	ug/L			12/14/19 18:38	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/14/19 18:38	1
Benzene	0.16	U	1.0	0.16	ug/L			12/14/19 18:38	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/14/19 18:38	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 18:38	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/14/19 18:38	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/14/19 18:38	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/14/19 18:38	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/14/19 18:38	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/14/19 18:38	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/14/19 18:38	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/14/19 18:38	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/14/19 18:38	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 18:38	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/14/19 18:38	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 18:38	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/14/19 18:38	1

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

Client Sample ID: TRIP BLANK
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/14/19 18:38	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/14/19 18:38	1
Methylene Chloride	**3.2**		2.0	0.94	ug/L			12/14/19 18:38	1
Styrene	0.36	U	1.0	0.36	ug/L			12/14/19 18:38	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/14/19 18:38	1
Toluene	0.17	U	1.0	0.17	ug/L			12/14/19 18:38	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 18:38	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/14/19 18:38	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/14/19 18:38	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/14/19 18:38	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/14/19 18:38	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/14/19 18:38	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/14/19 18:38	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/14/19 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*12/14/19 18:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/14/19 18:38*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/14/19 18:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*12/14/19 18:38*	*1*

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 03:43	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/16/19 03:43	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 03:43	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/16/19 03:43	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/16/19 03:43	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/16/19 03:43	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/16/19 03:43	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/16/19 03:43	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/16/19 03:43	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/16/19 03:43	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/16/19 03:43	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/16/19 03:43	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/16/19 03:43	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/16/19 03:43	1
Acetone	1.9	U	20	1.9	ug/L			12/16/19 03:43	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/16/19 03:43	1
Benzene	0.16	U	1.0	0.16	ug/L			12/16/19 03:43	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/16/19 03:43	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 03:43	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/16/19 03:43	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/16/19 03:43	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/16/19 03:43	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/16/19 03:43	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/16/19 03:43	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/16/19 03:43	1

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

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.16	U	1.0	0.16	ug/L			12/16/19 03:43	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/16/19 03:43	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 03:43	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/16/19 03:43	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 03:43	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/16/19 03:43	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/16/19 03:43	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/16/19 03:43	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/16/19 03:43	1
Styrene	0.36	U	1.0	0.36	ug/L			12/16/19 03:43	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/16/19 03:43	1
Toluene	0.17	U	1.0	0.17	ug/L			12/16/19 03:43	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 03:43	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/16/19 03:43	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/16/19 03:43	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/16/19 03:43	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/16/19 03:43	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/16/19 03:43	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/16/19 03:43	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/16/19 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*12/16/19 03:43*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*12/16/19 03:43*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/16/19 03:43*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*12/16/19 03:43*	*1*

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 04:04	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/16/19 04:04	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 04:04	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/16/19 04:04	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/16/19 04:04	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/16/19 04:04	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/16/19 04:04	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/16/19 04:04	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/16/19 04:04	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/16/19 04:04	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:04	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/16/19 04:04	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/16/19 04:04	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/16/19 04:04	1
Acetone	1.9	U	20	1.9	ug/L			12/16/19 04:04	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/16/19 04:04	1
Benzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:04	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/16/19 04:04	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:04	1

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

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.46	U	1.0	0.46	ug/L			12/16/19 04:04	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/16/19 04:04	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/16/19 04:04	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/16/19 04:04	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/16/19 04:04	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/16/19 04:04	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/16/19 04:04	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/16/19 04:04	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 04:04	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/16/19 04:04	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:04	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:04	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:04	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/16/19 04:04	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/16/19 04:04	1
Styrene	0.36	U	1.0	0.36	ug/L			12/16/19 04:04	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/16/19 04:04	1
Toluene	0.17	U	1.0	0.17	ug/L			12/16/19 04:04	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 04:04	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/16/19 04:04	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/16/19 04:04	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/16/19 04:04	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/16/19 04:04	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/16/19 04:04	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/16/19 04:04	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/16/19 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*12/16/19 04:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*12/16/19 04:04*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/16/19 04:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*12/16/19 04:04*	*1*

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 04:25	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/16/19 04:25	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 04:25	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/16/19 04:25	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/16/19 04:25	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/16/19 04:25	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/16/19 04:25	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/16/19 04:25	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/16/19 04:25	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/16/19 04:25	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:25	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/16/19 04:25	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/16/19 04:25	1

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

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/16/19 04:25	1
Acetone	1.9	U	20	1.9	ug/L			12/16/19 04:25	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/16/19 04:25	1
Benzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:25	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/16/19 04:25	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:25	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/16/19 04:25	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/16/19 04:25	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/16/19 04:25	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/16/19 04:25	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/16/19 04:25	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/16/19 04:25	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/16/19 04:25	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/16/19 04:25	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 04:25	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/16/19 04:25	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:25	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:25	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:25	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/16/19 04:25	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/16/19 04:25	1
Styrene	0.36	U	1.0	0.36	ug/L			12/16/19 04:25	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/16/19 04:25	1
Toluene	0.17	U	1.0	0.17	ug/L			12/16/19 04:25	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 04:25	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/16/19 04:25	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/16/19 04:25	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/16/19 04:25	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/16/19 04:25	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/16/19 04:25	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/16/19 04:25	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/16/19 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*		*12/16/19 04:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/16/19 04:25*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*12/16/19 04:25*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*12/16/19 04:25*	*1*

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 04:46	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/16/19 04:46	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 04:46	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/16/19 04:46	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/16/19 04:46	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/16/19 04:46	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/16/19 04:46	1

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

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/16/19 04:46	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/16/19 04:46	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/16/19 04:46	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:46	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/16/19 04:46	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/16/19 04:46	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/16/19 04:46	1
Acetone	1.9	U	20	1.9	ug/L			12/16/19 04:46	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/16/19 04:46	1
Benzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:46	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/16/19 04:46	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:46	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/16/19 04:46	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/16/19 04:46	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/16/19 04:46	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/16/19 04:46	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/16/19 04:46	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/16/19 04:46	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/16/19 04:46	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/16/19 04:46	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 04:46	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/16/19 04:46	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:46	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/16/19 04:46	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/16/19 04:46	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/16/19 04:46	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/16/19 04:46	1
Styrene	0.36	U	1.0	0.36	ug/L			12/16/19 04:46	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/16/19 04:46	1
Toluene	0.17	U	1.0	0.17	ug/L			12/16/19 04:46	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 04:46	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/16/19 04:46	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/16/19 04:46	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/16/19 04:46	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/16/19 04:46	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/16/19 04:46	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/16/19 04:46	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/16/19 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*12/16/19 04:46*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/16/19 04:46*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/16/19 04:46*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*12/16/19 04:46*	*1*

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 05:07	1

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

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/16/19 05:07	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 05:07	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/16/19 05:07	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/16/19 05:07	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/16/19 05:07	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/16/19 05:07	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/16/19 05:07	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/16/19 05:07	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/16/19 05:07	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/16/19 05:07	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/16/19 05:07	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/16/19 05:07	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/16/19 05:07	1
Acetone	1.9	U	20	1.9	ug/L			12/16/19 05:07	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/16/19 05:07	1
Benzene	0.16	U	1.0	0.16	ug/L			12/16/19 05:07	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/16/19 05:07	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 05:07	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/16/19 05:07	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/16/19 05:07	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/16/19 05:07	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/16/19 05:07	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/16/19 05:07	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/16/19 05:07	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/16/19 05:07	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/16/19 05:07	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 05:07	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/16/19 05:07	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 05:07	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/16/19 05:07	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/16/19 05:07	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/16/19 05:07	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/16/19 05:07	1
Styrene	0.36	U	1.0	0.36	ug/L			12/16/19 05:07	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/16/19 05:07	1
Toluene	0.17	U	1.0	0.17	ug/L			12/16/19 05:07	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 05:07	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/16/19 05:07	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/16/19 05:07	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/16/19 05:07	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/16/19 05:07	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/16/19 05:07	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/16/19 05:07	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/16/19 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*12/16/19 05:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/16/19 05:07*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/16/19 05:07*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*12/16/19 05:07*	*1*

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

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 05:28	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/16/19 05:28	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 05:28	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/16/19 05:28	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/16/19 05:28	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/16/19 05:28	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/16/19 05:28	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/16/19 05:28	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/16/19 05:28	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/16/19 05:28	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/16/19 05:28	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/16/19 05:28	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/16/19 05:28	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/16/19 05:28	1
Acetone	1.9	U	20	1.9	ug/L			12/16/19 05:28	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/16/19 05:28	1
Benzene	0.16	U	1.0	0.16	ug/L			12/16/19 05:28	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/16/19 05:28	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 05:28	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/16/19 05:28	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/16/19 05:28	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/16/19 05:28	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/16/19 05:28	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/16/19 05:28	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/16/19 05:28	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/16/19 05:28	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/16/19 05:28	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 05:28	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/16/19 05:28	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 05:28	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/16/19 05:28	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/16/19 05:28	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/16/19 05:28	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/16/19 05:28	1
Styrene	0.36	U	1.0	0.36	ug/L			12/16/19 05:28	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/16/19 05:28	1
Toluene	0.17	U	1.0	0.17	ug/L			12/16/19 05:28	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 05:28	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/16/19 05:28	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/16/19 05:28	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/16/19 05:28	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/16/19 05:28	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/16/19 05:28	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/16/19 05:28	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/16/19 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*12/16/19 05:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*12/16/19 05:28*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/16/19 05:28*	*1*

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

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/16/19 05:28*	*1*

Client Sample ID: TRIP BLANK 1
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 00:54	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/16/19 00:54	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/16/19 00:54	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/16/19 00:54	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/16/19 00:54	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/16/19 00:54	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/16/19 00:54	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/16/19 00:54	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/16/19 00:54	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/16/19 00:54	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/16/19 00:54	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/16/19 00:54	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/16/19 00:54	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/16/19 00:54	1
Acetone	**4.2**	**I**	20	1.9	ug/L			12/16/19 00:54	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/16/19 00:54	1
Benzene	0.16	U	1.0	0.16	ug/L			12/16/19 00:54	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/16/19 00:54	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 00:54	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/16/19 00:54	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/16/19 00:54	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/16/19 00:54	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/16/19 00:54	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/16/19 00:54	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/16/19 00:54	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/16/19 00:54	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/16/19 00:54	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 00:54	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/16/19 00:54	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/16/19 00:54	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/16/19 00:54	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/16/19 00:54	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/16/19 00:54	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/16/19 00:54	1
Styrene	0.36	U	1.0	0.36	ug/L			12/16/19 00:54	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/16/19 00:54	1
Toluene	0.17	U	1.0	0.17	ug/L			12/16/19 00:54	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/16/19 00:54	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/16/19 00:54	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/16/19 00:54	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/16/19 00:54	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/16/19 00:54	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/16/19 00:54	1

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

Client Sample ID: TRIP BLANK 1
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/16/19 00:54	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/16/19 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*12/16/19 00:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*12/16/19 00:54*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*12/16/19 00:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/16/19 00:54*	*1*

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 21:29	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/19/19 21:29	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 21:29	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/19/19 21:29	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/19/19 21:29	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/19/19 21:29	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/19/19 21:29	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/19/19 21:29	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/19/19 21:29	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/19/19 21:29	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/19/19 21:29	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/19/19 21:29	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/19/19 21:29	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/19/19 21:29	1
Acetone	1.9	U	20	1.9	ug/L			12/19/19 21:29	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/19/19 21:29	1
Benzene	0.16	U	1.0	0.16	ug/L			12/19/19 21:29	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/19/19 21:29	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 21:29	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/19/19 21:29	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/19/19 21:29	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/19/19 21:29	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/19/19 21:29	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/19/19 21:29	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/19/19 21:29	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/19/19 21:29	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/19/19 21:29	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 21:29	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/19/19 21:29	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 21:29	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/19/19 21:29	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/19/19 21:29	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/19/19 21:29	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/19/19 21:29	1
Styrene	0.36	U	1.0	0.36	ug/L			12/19/19 21:29	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/19/19 21:29	1
Toluene	0.17	U	1.0	0.17	ug/L			12/19/19 21:29	1

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

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 21:29	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/19/19 21:29	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/19/19 21:29	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/19/19 21:29	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/19/19 21:29	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/19/19 21:29	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/19/19 21:29	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/19/19 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*12/19/19 21:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*12/19/19 21:29*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 120*		*12/19/19 21:29*	*1*
Toluene-d8 (Surr)	*108*		*80 - 125*		*12/19/19 21:29*	*1*

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 21:50	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/19/19 21:50	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 21:50	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/19/19 21:50	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/19/19 21:50	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/19/19 21:50	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/19/19 21:50	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/19/19 21:50	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/19/19 21:50	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/19/19 21:50	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/19/19 21:50	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/19/19 21:50	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/19/19 21:50	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/19/19 21:50	1
Acetone	1.9	U	20	1.9	ug/L			12/19/19 21:50	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/19/19 21:50	1
Benzene	0.16	U	1.0	0.16	ug/L			12/19/19 21:50	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/19/19 21:50	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 21:50	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/19/19 21:50	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/19/19 21:50	1
Carbon disulfide	**0.58**	**I V**	2.0	0.17	ug/L			12/19/19 21:50	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/19/19 21:50	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/19/19 21:50	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/19/19 21:50	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/19/19 21:50	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/19/19 21:50	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 21:50	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/19/19 21:50	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 21:50	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/19/19 21:50	1

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

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/19/19 21:50	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/19/19 21:50	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/19/19 21:50	1
Styrene	0.36	U	1.0	0.36	ug/L			12/19/19 21:50	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/19/19 21:50	1
Toluene	0.17	U	1.0	0.17	ug/L			12/19/19 21:50	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 21:50	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/19/19 21:50	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/19/19 21:50	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/19/19 21:50	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/19/19 21:50	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/19/19 21:50	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/19/19 21:50	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/19/19 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*12/19/19 21:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*12/19/19 21:50*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 120*		*12/19/19 21:50*	*1*
Toluene-d8 (Surr)	*107*		*80 - 125*		*12/19/19 21:50*	*1*

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 22:12	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/19/19 22:12	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 22:12	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/19/19 22:12	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/19/19 22:12	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/19/19 22:12	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/19/19 22:12	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/19/19 22:12	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/19/19 22:12	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/19/19 22:12	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/19/19 22:12	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/19/19 22:12	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/19/19 22:12	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/19/19 22:12	1
Acetone	1.9	U	20	1.9	ug/L			12/19/19 22:12	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/19/19 22:12	1
Benzene	0.16	U	1.0	0.16	ug/L			12/19/19 22:12	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/19/19 22:12	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 22:12	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/19/19 22:12	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/19/19 22:12	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/19/19 22:12	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/19/19 22:12	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/19/19 22:12	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/19/19 22:12	1

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

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.16	U	1.0	0.16	ug/L			12/19/19 22:12	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/19/19 22:12	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 22:12	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/19/19 22:12	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 22:12	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/19/19 22:12	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/19/19 22:12	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/19/19 22:12	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/19/19 22:12	1
Styrene	0.36	U	1.0	0.36	ug/L			12/19/19 22:12	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/19/19 22:12	1
Toluene	0.17	U	1.0	0.17	ug/L			12/19/19 22:12	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 22:12	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/19/19 22:12	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/19/19 22:12	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/19/19 22:12	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/19/19 22:12	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/19/19 22:12	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/19/19 22:12	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/19/19 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*12/19/19 22:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*12/19/19 22:12*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 120*		*12/19/19 22:12*	*1*
Toluene-d8 (Surr)	*107*		*80 - 125*		*12/19/19 22:12*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/11/19 18:00	12/12/19 00:03	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/11/19 18:00	12/12/19 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*105*		*70 - 130*	*12/11/19 18:00*	*12/12/19 00:03*	*1*

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/11/19 18:00	12/12/19 00:25	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/11/19 18:00	12/12/19 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*106*		*70 - 130*	*12/11/19 18:00*	*12/12/19 00:25*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/11/19 18:00	12/12/19 00:47	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/11/19 18:00	12/12/19 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*95*		*70 - 130*	*12/11/19 18:00*	*12/12/19 00:47*	*1*

Client Sample ID: TRIP BLANK
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/11/19 18:00	12/12/19 01:08	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/11/19 18:00	12/12/19 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*98*		*70 - 130*	*12/11/19 18:00*	*12/12/19 01:08*	*1*

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 14:00	12/16/19 20:12	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 14:00	12/16/19 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*103*		*70 - 130*	*12/16/19 14:00*	*12/16/19 20:12*	*1*

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 14:00	12/16/19 20:34	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 14:00	12/16/19 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*101*		*70 - 130*	*12/16/19 14:00*	*12/16/19 20:34*	*1*

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 14:00	12/16/19 20:55	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 14:00	12/16/19 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*117*		*70 - 130*	*12/16/19 14:00*	*12/16/19 20:55*	*1*

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 14:00	12/16/19 21:16	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 14:00	12/16/19 21:16	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	111		70 - 130	12/16/19 14:00	12/16/19 21:16	1

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 14:00	12/16/19 21:38	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 14:00	12/16/19 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	109		70 - 130	12/16/19 14:00	12/16/19 21:38	1

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0038	U	0.020	0.0038	ug/L		12/16/19 14:00	12/16/19 21:59	1
1,2-Dibromo-3-Chloropropane	0.0069	U	0.020	0.0069	ug/L		12/16/19 14:00	12/16/19 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	108		70 - 130	12/16/19 14:00	12/16/19 21:59	1

Client Sample ID: TRIP BLANK 1
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 14:00	12/16/19 22:21	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 14:00	12/16/19 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	102		70 - 130	12/16/19 14:00	12/16/19 22:21	1

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 15:00	12/17/19 05:31	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 15:00	12/17/19 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	109		70 - 130	12/16/19 15:00	12/17/19 05:31	1

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 15:00	12/17/19 05:52	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 15:00	12/17/19 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	109		70 - 130	12/16/19 15:00	12/17/19 05:52	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 15:00	12/17/19 06:14	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		12/16/19 15:00	12/17/19 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*99*		*70 - 130*	*12/16/19 15:00*	*12/17/19 06:14*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-1B
Date Collected: 12/04/19 10:22
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**5.2**		1.0	0.37	mg/L		01/06/20 07:00	01/07/20 18:33	1

Client Sample ID: MW-7B
Date Collected: 12/04/19 11:37
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**6.5**		1.0	0.37	mg/L		01/06/20 07:00	01/07/20 18:43	1

Client Sample ID: MW-5B
Date Collected: 12/04/19 12:51
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**3.7**		1.0	0.37	mg/L		01/06/20 07:00	01/07/20 18:56	1

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**27**		10	0.82	ug/L		01/06/20 07:00	01/06/20 18:14	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:14	1
Cobalt	**1.2**	**I**	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:14	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:14	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:14	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:14	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:14	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:14	1
Iron	**47**	**I**	100	22	ug/L		01/06/20 07:00	01/06/20 18:14	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:14	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 18:14	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:14	1
Sodium	**8.2**		1.0	0.37	mg/L		01/06/20 07:00	01/07/20 18:58	1

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**17**		10	0.82	ug/L		01/06/20 07:00	01/06/20 18:17	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:17	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:17	1

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:17	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:17	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:17	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:17	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:17	1
Iron	**2300**		100	22	ug/L		01/06/20 07:00	01/06/20 18:17	1
Vanadium	**1.5**	**I**	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:17	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 18:17	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:17	1
Sodium	**7.1**		1.0	0.37	mg/L		01/06/20 07:00	01/07/20 19:01	1

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**36**		10	0.82	ug/L		01/06/20 07:00	01/06/20 18:29	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:29	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:29	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:29	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:29	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:29	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:29	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:29	1
Iron	**40**	**I**	100	22	ug/L		01/06/20 07:00	01/06/20 18:29	1
Vanadium	**1.3**	**I**	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:29	1
Zinc	**9.7**	**I**	20	4.5	ug/L		01/06/20 07:00	01/06/20 18:29	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:29	1
Sodium	**2.0**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:29	1

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**29**		10	0.82	ug/L		01/06/20 07:00	01/06/20 18:32	1
Cadmium	**0.57**	**I**	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:32	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:32	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:32	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:32	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:32	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:32	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:32	1
Iron	**71**	**I**	100	22	ug/L		01/06/20 07:00	01/06/20 18:32	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:32	1
Zinc	**7.1**	**I**	20	4.5	ug/L		01/06/20 07:00	01/06/20 18:32	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:32	1
Sodium	**2.4**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:32	1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**14**		10	0.82	ug/L		01/06/20 07:00	01/06/20 18:34	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:34	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:34	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:34	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:34	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:34	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:34	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:34	1
Iron	**25**	**I**	100	22	ug/L		01/06/20 07:00	01/06/20 18:34	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:34	1
Zinc	**120**		20	4.5	ug/L		01/06/20 07:00	01/06/20 18:34	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:34	1
Sodium	**1.4**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:34	1

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**9.5**	**I**	10	0.82	ug/L		01/06/20 07:00	01/06/20 18:37	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:37	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:37	1
Chromium	**0.93**	**I**	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:37	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:37	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:37	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:37	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:37	1
Iron	**220**		100	22	ug/L		01/06/20 07:00	01/06/20 18:37	1
Vanadium	**1.5**	**I**	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:37	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 18:37	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:37	1
Sodium	**4.7**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:37	1

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**5.7**	**I**	10	0.82	ug/L		01/06/20 07:00	01/06/20 18:40	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:40	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:40	1
Chromium	**1.9**	**I**	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:40	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:40	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:40	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:40	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:40	1
Iron	**210**		100	22	ug/L		01/06/20 07:00	01/06/20 18:40	1
Vanadium	**2.7**	**I**	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:40	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/13/20 16:50	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:40	1
Sodium	**3.0**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:40	1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**19**		10	0.82	ug/L		01/06/20 07:00	01/06/20 18:42	1
Cadmium	**0.72**	**I**	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:42	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:42	1
Chromium	**2.9**	**I**	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:42	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:42	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:42	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:42	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:42	1
Iron	**230**		100	22	ug/L		01/06/20 07:00	01/06/20 18:42	1
Vanadium	**2.5**	**I**	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:42	1
Zinc	**9.2**	**I**	20	4.5	ug/L		01/06/20 07:00	01/06/20 18:42	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:42	1
Sodium	**11**		1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:42	1

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**3.7**	**I**	10	0.82	ug/L		01/06/20 07:00	01/06/20 18:45	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 18:45	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 18:45	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 18:45	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 18:45	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 18:45	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 18:45	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 18:45	1
Iron	**100**		100	22	ug/L		01/06/20 07:00	01/06/20 18:45	1
Vanadium	**1.1**	**I**	10	1.1	ug/L		01/06/20 07:00	01/06/20 18:45	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 18:45	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 18:45	1
Sodium	**4.0**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:45	1

Client Sample ID: MW-3B
Date Collected: 12/05/19 07:35
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**4.7**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 18:57	1

Client Sample ID: MW-4B
Date Collected: 12/05/19 08:50
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**2.1**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 19:00	1

Client Sample ID: MW-14B
Date Collected: 12/05/19 10:23
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**6.3**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 19:03	1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-9B
Date Collected: 12/05/19 11:43
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**11**		1.0	0.37	mg/L		01/06/20 07:00	01/06/20 19:05	1

Client Sample ID: MW-11B
Date Collected: 12/05/19 12:44
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**5.9**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 19:08	1

Client Sample ID: MW-15B
Date Collected: 12/05/19 14:01
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**3.8**	**V**	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 19:10	1

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.37	U	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:25	1

Client Sample ID: MW-2B
Date Collected: 12/09/19 08:20
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**4.8**		1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:28	1

Client Sample ID: MW-6BR
Date Collected: 12/09/19 09:43
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**6.8**		1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:30	1

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82	U	10	0.82	ug/L		01/06/20 07:00	01/06/20 16:43	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 16:43	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 16:43	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 16:43	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 16:43	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 16:43	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 16:43	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 16:43	1
Iron	22	U	100	22	ug/L		01/06/20 07:00	01/06/20 16:43	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 16:43	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 16:43	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 16:43	1
Sodium	0.37	U	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:43	1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**19**		10	0.82	ug/L		01/06/20 07:00	01/06/20 16:46	1
Cadmium	**0.52**	**I**	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 16:46	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 16:46	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 16:46	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 16:46	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 16:46	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 16:46	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 16:46	1
Iron	22	U	100	22	ug/L		01/06/20 07:00	01/06/20 16:46	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 16:46	1
Zinc	**4.8**	**I**	20	4.5	ug/L		01/06/20 07:00	01/06/20 16:46	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 16:46	1
Sodium	**9.1**		1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:46	1

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**15**		10	0.82	ug/L		01/06/20 07:00	01/06/20 16:48	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 16:48	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 16:48	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 16:48	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 16:48	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 16:48	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 16:48	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 16:48	1
Iron	**41**	**I**	100	22	ug/L		01/06/20 07:00	01/06/20 16:48	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 16:48	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 16:48	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 16:48	1
Sodium	**1.3**		1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:48	1

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**30**		10	0.82	ug/L		01/06/20 07:00	01/06/20 16:51	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 16:51	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 16:51	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 16:51	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 16:51	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 16:51	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 16:51	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 16:51	1
Iron	**25**	**I**	100	22	ug/L		01/06/20 07:00	01/06/20 16:51	1
Vanadium	**1.7**	**I**	10	1.1	ug/L		01/06/20 07:00	01/06/20 16:51	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 16:51	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 16:51	1
Sodium	**7.6**		1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:51	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:06	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:06	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:06	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:06	1

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:10	1
Arsenic	**2.5**	**I**	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:10	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:10	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:10	1

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:13	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:13	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:13	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:13	1

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:17	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:17	1
Beryllium	**0.091**	**I**	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:17	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:17	1

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:28	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:28	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:28	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:28	1

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:32	1
Arsenic	**1.6**	**I**	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:32	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:32	1
Thallium	**0.11**	**I**	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:32	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:35	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:35	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:35	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:35	1

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:39	1
Arsenic	**1.5**	**I**	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:39	1
Beryllium	**0.086**	**I**	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:39	1
Thallium	**0.37**	**I**	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:39	1

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:43	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:43	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:43	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:43	1

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:46	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:46	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:46	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:46	1

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:50	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:50	1
Beryllium	**0.11**	**I**	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:50	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:50	1

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:54	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:54	1
Beryllium	**0.084**	**I**	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:54	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:54	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/08/20 00:57	1
Arsenic	**0.67**	**I**	5.0	0.33	ug/L		12/31/19 08:30	01/08/20 00:57	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/08/20 00:57	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/08/20 00:57	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:26	1

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:28	1

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**	**I**	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:31	1

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:37	1

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:39	1

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:42	1

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:44	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:46	1

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.66**		0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:48	1

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 17:51	1

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.6**		0.20	0.027	ug/L		12/30/19 16:23	12/31/19 09:12	1

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/30/19 16:23	12/31/19 09:15	1

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**	**I**	0.20	0.027	ug/L		12/30/19 16:23	12/31/19 09:17	1

General Chemistry

Client Sample ID: MW-1B
Date Collected: 12/04/19 10:22
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.1**		3.0	1.0	mg/L			12/05/19 23:42	1
Nitrate as N	**0.46**	**I**	0.50	0.090	mg/L			12/05/19 23:42	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/06/19 14:04	1

Client Sample ID: MW-7B
Date Collected: 12/04/19 11:37
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.6**		3.0	1.0	mg/L			12/05/19 23:58	1
Nitrate as N	**0.12**	**I**	0.50	0.090	mg/L			12/05/19 23:58	1
Ammonia as N	**0.023**	**I**	0.10	0.022	mg/L			12/06/19 14:06	1

General Chemistry

Client Sample ID: MW-5B
Date Collected: 12/04/19 12:51
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.3		3.0	1.0	mg/L			12/06/19 00:15	1
Nitrate as N	0.26	I	0.50	0.090	mg/L			12/06/19 00:15	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/06/19 14:08	1

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		6.0	2.0	mg/L			12/05/19 19:52	2
Nitrate as N	10		1.0	0.18	mg/L			12/05/19 19:52	2
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/06/19 14:28	1
Total Dissolved Solids	280		10	4.7	mg/L			12/06/19 08:06	1

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		6.0	2.0	mg/L			12/05/19 20:25	2
Nitrate as N	7.8		1.0	0.18	mg/L			12/05/19 20:25	2
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/06/19 14:30	1
Total Dissolved Solids	210		10	4.7	mg/L			12/06/19 08:06	1

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7	I	3.0	1.0	mg/L			12/06/19 00:31	1
Nitrate as N	2.0		0.50	0.090	mg/L			12/06/19 00:31	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/06/19 14:32	1
Total Dissolved Solids	98		10	4.7	mg/L			12/06/19 08:06	1

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		3.0	1.0	mg/L			12/06/19 21:11	1
Nitrate as N	0.47	I	0.50	0.090	mg/L			12/06/19 21:11	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 13:09	1
Total Dissolved Solids	44		10	4.7	mg/L			12/09/19 08:39	1

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8	I	3.0	1.0	mg/L			12/07/19 00:23	1
Nitrate as N	0.66		0.50	0.090	mg/L			12/07/19 00:23	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 13:11	1
Total Dissolved Solids	68		10	4.7	mg/L			12/09/19 08:39	1

General Chemistry

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.4**		3.0	1.0	mg/L			12/07/19 00:41	1
Nitrate as N	**1.8**		0.50	0.090	mg/L			12/07/19 00:41	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 13:25	1
Total Dissolved Solids	**63**		10	4.7	mg/L			12/09/19 08:39	1

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.1**		3.0	1.0	mg/L			12/07/19 00:58	1
Nitrate as N	**0.18**	**I**	0.50	0.090	mg/L			12/07/19 00:58	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 13:27	1
Total Dissolved Solids	**65**		10	4.7	mg/L			12/09/19 08:39	1

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.9**		3.0	1.0	mg/L			12/07/19 01:16	1
Nitrate as N	**13**		1.0	0.18	mg/L			12/07/19 01:33	2
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 13:29	1
Total Dissolved Solids	**250**		10	4.7	mg/L			12/09/19 08:39	1

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.2**		3.0	1.0	mg/L			12/07/19 01:51	1
Nitrate as N	**0.42**	**I**	0.50	0.090	mg/L			12/07/19 01:51	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 13:31	1
Total Dissolved Solids	**29**		10	4.7	mg/L			12/09/19 08:39	1

Client Sample ID: MW-3B
Date Collected: 12/05/19 07:35
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.3**		3.0	1.0	mg/L			12/07/19 02:43	1
Nitrate as N	**1.1**		0.50	0.090	mg/L			12/07/19 02:43	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 14:09	1

Client Sample ID: MW-4B
Date Collected: 12/05/19 08:50
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.1**		3.0	1.0	mg/L			12/07/19 03:01	1
Nitrate as N	**1.0**		0.50	0.090	mg/L			12/07/19 03:01	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 14:11	1

General Chemistry

Client Sample ID: MW-14B
Date Collected: 12/05/19 10:23
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.9**		3.0	1.0	mg/L			12/07/19 03:18	1
Nitrate as N	0.090	U	0.50	0.090	mg/L			12/07/19 03:18	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 14:13	1

Client Sample ID: MW-9B
Date Collected: 12/05/19 11:43
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		3.0	1.0	mg/L			12/07/19 03:36	1
Nitrate as N	**0.14**	**I**	0.50	0.090	mg/L			12/07/19 03:36	1
Ammonia as N	**0.041**	**I**	0.10	0.022	mg/L			12/19/19 14:27	1

Client Sample ID: MW-11B
Date Collected: 12/05/19 12:44
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.5**		3.0	1.0	mg/L			12/07/19 03:53	1
Nitrate as N	0.090	U	0.50	0.090	mg/L			12/07/19 03:53	1
Ammonia as N	**0.029**	**I**	0.10	0.022	mg/L			12/19/19 14:29	1

Client Sample ID: MW-15B
Date Collected: 12/05/19 14:01
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.1**		3.0	1.0	mg/L			12/07/19 04:11	1
Nitrate as N	**0.74**		0.50	0.090	mg/L			12/07/19 04:11	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 14:35	1

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	3.0	1.0	mg/L			12/10/19 17:44	1
Nitrate as N	0.090	U	0.50	0.090	mg/L			12/10/19 17:44	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/26/19 15:37	1

Client Sample ID: MW-2B
Date Collected: 12/09/19 08:20
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.4**		3.0	1.0	mg/L			12/10/19 18:00	1
Nitrate as N	**0.76**		0.50	0.090	mg/L			12/10/19 18:00	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/26/19 15:39	1

Client Sample ID: MW-6BR
Date Collected: 12/09/19 09:43
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		3.0	1.0	mg/L			12/10/19 18:17	1
Nitrate as N	**2.4**		0.50	0.090	mg/L			12/10/19 18:17	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/26/19 15:41	1

General Chemistry

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	3.0	1.0	mg/L			12/10/19 20:12	1
Nitrate as N	0.090	U	0.50	0.090	mg/L			12/10/19 20:12	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/26/19 15:23	1
Total Dissolved Solids	4.7	U	10	4.7	mg/L			12/11/19 09:07	1

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24**		3.0	1.0	mg/L			12/10/19 20:28	1
Nitrate as N	**5.1**		0.50	0.090	mg/L			12/10/19 20:28	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/26/19 15:29	1
Total Dissolved Solids	**110**		10	4.7	mg/L			12/11/19 09:07	1

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.9**	**I**	3.0	1.0	mg/L			12/10/19 21:01	1
Nitrate as N	**0.32**	**I**	0.50	0.090	mg/L			12/10/19 21:01	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/26/19 15:31	1
Total Dissolved Solids	**30**		10	4.7	mg/L			12/11/19 09:07	1

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.0**		3.0	1.0	mg/L			12/10/19 21:17	1
Nitrate as N	**3.4**		0.50	0.090	mg/L			12/10/19 21:17	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/26/19 15:33	1
Total Dissolved Solids	**190**		10	4.7	mg/L			12/11/19 09:07	1

Method: Field Sampling - Field Sampling

Client Sample ID: MW-1B
Date Collected: 12/04/19 10:22
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**58.81**				ft/msl			12/04/19 08:22	1
Field pH	**7.69**				SU			12/04/19 08:22	1
Field Conductivity	**211**				umhos/cm			12/04/19 08:22	1
Field Temperature	**22.5**				Degrees C			12/04/19 08:22	1
Field Turbidity	**3.90**				NTU			12/04/19 08:22	1
Field Dissolved Oxygen	**0.2**				mg/L			12/04/19 08:22	1
Field Color	**NONE**				No Unit			12/04/19 08:22	1

Client Sample ID: MW-7B
Date Collected: 12/04/19 11:37
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**57.43**				ft/msl			12/04/19 09:37	1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-7B
Date Collected: 12/04/19 11:37
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.63				SU			12/04/19 09:37	1
Field Conductivity	139				umhos/cm			12/04/19 09:37	1
Field Temperature	22.2				Degrees C			12/04/19 09:37	1
Field Turbidity	3.88				NTU			12/04/19 09:37	1
Field Dissolved Oxygen	0.1				mg/L			12/04/19 09:37	1
Field Color	NONE				No Unit			12/04/19 09:37	1

Client Sample ID: MW-5B
Date Collected: 12/04/19 12:51
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	55.67				ft/msl			12/04/19 10:51	1
Field pH	7.85				SU			12/04/19 10:51	1
Field Conductivity	199				umhos/cm			12/04/19 10:51	1
Field Temperature	24.6				Degrees C			12/04/19 10:51	1
Field Turbidity	3.28				NTU			12/04/19 10:51	1
Field Dissolved Oxygen	0.1				mg/L			12/04/19 10:51	1
Field Color	NONE				No Unit			12/04/19 10:51	1

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	68.54				ft/msl			12/04/19 07:48	1
Field pH	7.40				SU			12/04/19 07:48	1
Field Conductivity	396				umhos/cm			12/04/19 07:48	1
Field Temperature	22.6				Degrees C			12/04/19 07:48	1
Field Turbidity	3.56				NTU			12/04/19 07:48	1
Field Dissolved Oxygen	0.5				mg/L			12/04/19 07:48	1
Field Color	NONE				No Unit			12/04/19 07:48	1

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	70.63				ft/msl			12/04/19 09:02	1
Field pH	7.17				SU			12/04/19 09:02	1
Field Conductivity	283				umhos/cm			12/04/19 09:02	1
Field Temperature	22.7				Degrees C			12/04/19 09:02	1
Field Turbidity	3.79				NTU			12/04/19 09:02	1
Field Dissolved Oxygen	1.1				mg/L			12/04/19 09:02	1
Field Color	NONE				No Unit			12/04/19 09:02	1

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	57.44				ft/msl			12/04/19 10:17	1
Field pH	5.64				SU			12/04/19 10:17	1
Field Conductivity	130				umhos/cm			12/04/19 10:17	1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	25.1				Degrees C			12/04/19 10:17	1
Field Turbidity	3.77				NTU			12/04/19 10:17	1
Field Dissolved Oxygen	3.6				mg/L			12/04/19 10:17	1
Field Color	NONE				No Unit			12/04/19 10:17	1

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	56.02				ft/msl			12/05/19 05:00	1
Field pH	5.44				SU			12/05/19 05:00	1
Field Conductivity	73				umhos/cm			12/05/19 05:00	1
Field Temperature	22.3				Degrees C			12/05/19 05:00	1
Field Turbidity	2.72				NTU			12/05/19 05:00	1
Field Dissolved Oxygen	1.3				mg/L			12/05/19 05:00	1
Field Color	NONE				No Unit			12/05/19 05:00	1

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	56.01				ft/msl			12/05/19 06:16	1
Field pH	6.03				SU			12/05/19 06:16	1
Field Conductivity	81				umhos/cm			12/05/19 06:16	1
Field Temperature	24.0				Degrees C			12/05/19 06:16	1
Field Turbidity	2.39				NTU			12/05/19 06:16	1
Field Dissolved Oxygen	4.6				mg/L			12/05/19 06:16	1
Field Color	NONE				No Unit			12/05/19 06:16	1

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.91				SU			12/05/19 07:39	1
Field Conductivity	84				umhos/cm			12/05/19 07:39	1
Field Temperature	22.9				Degrees C			12/05/19 07:39	1
Field Turbidity	6.54				NTU			12/05/19 07:39	1
Field Dissolved Oxygen	2.0				mg/L			12/05/19 07:39	1
Field Color	NONE				No Unit			12/05/19 07:39	1

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.05				SU			12/05/19 09:09	1
Field Conductivity	96				umhos/cm			12/05/19 09:09	1
Field Temperature	23.5				Degrees C			12/05/19 09:09	1
Field Turbidity	2.32				NTU			12/05/19 09:09	1
Field Dissolved Oxygen	2.0				mg/L			12/05/19 09:09	1
Field Color	NONE				No Unit			12/05/19 09:09	1

Method: Field Sampling - Field Sampling

Client Sample ID: MW-11A
Date Collected: 12/05/19 12:13
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.74				SU			12/05/19 10:13	1
Field Conductivity	339				umhos/cm			12/05/19 10:13	1
Field Temperature	23.8				Degrees C			12/05/19 10:13	1
Field Turbidity	8.64				NTU			12/05/19 10:13	1
Field Dissolved Oxygen	2.4				mg/L			12/05/19 10:13	1
Field Color	NONE				No Unit			12/05/19 10:13	1

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.28				SU			12/05/19 11:30	1
Field Conductivity	60				umhos/cm			12/05/19 11:30	1
Field Temperature	24.7				Degrees C			12/05/19 11:30	1
Field Turbidity	3.99				NTU			12/05/19 11:30	1
Field Dissolved Oxygen	3.3				mg/L			12/05/19 11:30	1
Field Color	NONE				No Unit			12/05/19 11:30	1

Client Sample ID: MW-3B
Date Collected: 12/05/19 07:35
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	55.98				ft/msl			12/05/19 05:35	1
Field pH	7.08				SU			12/05/19 05:35	1
Field Conductivity	211				umhos/cm			12/05/19 05:35	1
Field Temperature	22.7				Degrees C			12/05/19 05:35	1
Field Turbidity	3.53				NTU			12/05/19 05:35	1
Field Dissolved Oxygen	2.0				mg/L			12/05/19 05:35	1
Field Color	NONE				No Unit			12/05/19 05:35	1

Client Sample ID: MW-4B
Date Collected: 12/05/19 08:50
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	56.99				ft/msl			12/05/19 06:50	1
Field pH	5.41				SU			12/05/19 06:50	1
Field Conductivity	48				umhos/cm			12/05/19 06:50	1
Field Temperature	24.2				Degrees C			12/05/19 06:50	1
Field Turbidity	3.13				NTU			12/05/19 06:50	1
Field Dissolved Oxygen	0.7				mg/L			12/05/19 06:50	1
Field Color	NONE				No Unit			12/05/19 06:50	1

Client Sample ID: MW-14B
Date Collected: 12/05/19 10:23
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.74				SU			12/05/19 08:23	1
Field Conductivity	136				umhos/cm			12/05/19 08:23	1
Field Temperature	23.8				Degrees C			12/05/19 08:23	1
Field Turbidity	3.77				NTU			12/05/19 08:23	1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-14B
Date Collected: 12/05/19 10:23
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Dissolved Oxygen	0.2				mg/L			12/05/19 08:23	1
Field Color	NONE				No Unit			12/05/19 08:23	1

Client Sample ID: MW-9B
Date Collected: 12/05/19 11:43
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.75				SU			12/05/19 09:43	1
Field Conductivity	339				umhos/cm			12/05/19 09:43	1
Field Temperature	23.4				Degrees C			12/05/19 09:43	1
Field Turbidity	5.82				NTU			12/05/19 09:43	1
Field Dissolved Oxygen	0.2				mg/L			12/05/19 09:43	1
Field Color	NONE				No Unit			12/05/19 09:43	1

Client Sample ID: MW-11B
Date Collected: 12/05/19 12:44
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.87				SU			12/05/19 10:44	1
Field Conductivity	257				umhos/cm			12/05/19 10:44	1
Field Temperature	23.8				Degrees C			12/05/19 10:44	1
Field Turbidity	6.93				NTU			12/05/19 10:44	1
Field Dissolved Oxygen	0.2				mg/L			12/05/19 10:44	1
Field Color	NONE				No Unit			12/05/19 10:44	1

Client Sample ID: MW-15B
Date Collected: 12/05/19 14:01
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.73				SU			12/05/19 12:01	1
Field Conductivity	138				umhos/cm			12/05/19 12:01	1
Field Temperature	23.5				Degrees C			12/05/19 12:01	1
Field Turbidity	8.12				NTU			12/05/19 12:01	1
Field Dissolved Oxygen	2.2				mg/L			12/05/19 12:01	1
Field Color	NONE				No Unit			12/05/19 12:01	1

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.77				SU			12/09/19 08:15	1
Field Conductivity	8				umhos/cm			12/09/19 08:15	1
Field Temperature	24.6				Degrees C			12/09/19 08:15	1
Field Turbidity	0				NTU			12/09/19 08:15	1
Field Dissolved Oxygen	0.9				mg/L			12/09/19 08:15	1
Field Color	NONE				No Unit			12/09/19 08:15	1

Method: Field Sampling - Field Sampling

Client Sample ID: MW-2B
Date Collected: 12/09/19 08:20
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	55.52				ft/msl			12/09/19 06:20	1
Field pH	7.99				SU			12/09/19 06:20	1
Field Conductivity	149				umhos/cm			12/09/19 06:20	1
Field Temperature	25.1				Degrees C			12/09/19 06:20	1
Field Turbidity	3.22				NTU			12/09/19 06:20	1
Field Dissolved Oxygen	0.2				mg/L			12/09/19 06:20	1
Field Color	NONE				No Unit			12/09/19 06:20	1

Client Sample ID: MW-6BR
Date Collected: 12/09/19 09:43
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	56.30				ft/msl			12/09/19 07:43	1
Field pH	7.92				SU			12/09/19 07:43	1
Field Conductivity	269				umhos/cm			12/09/19 07:43	1
Field Temperature	24.4				Degrees C			12/09/19 07:43	1
Field Turbidity	3.34				NTU			12/09/19 07:43	1
Field Dissolved Oxygen	1.2				mg/L			12/09/19 07:43	1
Field Color	NONE				No Unit			12/09/19 07:43	1

Client Sample ID: MW-6AR
Date Collected: 12/09/19 09:11
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	56.41				ft/msl			12/09/19 07:11	1
Field pH	5.49				SU			12/09/19 07:11	1
Field Conductivity	181				umhos/cm			12/09/19 07:11	1
Field Temperature	24.6				Degrees C			12/09/19 07:11	1
Field Turbidity	3.09				NTU			12/09/19 07:11	1
Field Dissolved Oxygen	2.5				mg/L			12/09/19 07:11	1
Field Color	NONE				No Unit			12/09/19 07:11	1

Client Sample ID: MW-2AR
Date Collected: 12/09/19 07:42
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	56.92				ft/msl			12/09/19 05:42	1
Field pH	5.30				SU			12/09/19 05:42	1
Field Conductivity	51				umhos/cm			12/09/19 05:42	1
Field Temperature	24.0				Degrees C			12/09/19 05:42	1
Field Turbidity	3.59				NTU			12/09/19 05:42	1
Field Dissolved Oxygen	5.4				mg/L			12/09/19 05:42	1
Field Color	NONE				No Unit			12/09/19 05:42	1

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	58.16				ft/msl			12/09/19 05:00	1
Field pH	6.91				SU			12/09/19 05:00	1

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-8R
Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Conductivity	247				umhos/cm			12/09/19 05:00	1
Field Temperature	24.0				Degrees C			12/09/19 05:00	1
Field Turbidity	4.61				NTU			12/09/19 05:00	1
Field Dissolved Oxygen	1.6				mg/L			12/09/19 05:00	1
Field Color	NONE				No Unit			12/09/19 05:00	1

Surrogate Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (70-127)	BFB (78-120)	DBFM (77-120)	TOL (80-125)
280-131609-1	MW-1A	100	100	99	98
280-131609-2	MW-7A	101	101	100	100
280-131609-3	MW-5A	102	100	100	100
280-131609-4	TRIP BLANK	102	100	99	99
280-131664-1	MW-3A	105	98	99	101
280-131664-2	MW-4A	106	99	99	99
280-131664-3	MW-14A	107	100	100	99
280-131664-4	MW-9A	106	100	99	101
280-131664-5	MW-11A	106	100	99	101
280-131664-6	MW-15A	105	102	99	100
280-131664-7	TRIP BLANK 1	106	100	99	100
280-131758-2	MW-6AR	87	103	91	108
280-131758-3	MW-2AR	87	104	91	107
280-131758-4	MW-8R	89	104	92	107
280-131931-E-1 MSD	Matrix Spike Duplicate	89	105	98	106
280-131931-F-1 MS	Matrix Spike	89	107	99	106
280-131975-A-1 MSD	Matrix Spike Duplicate	101	102	99	101
LCS 280-480548/4	Lab Control Sample	100	101	99	99
LCS 280-480613/3	Lab Control Sample	104	100	100	98
LCS 280-481059/4	Lab Control Sample	89	105	98	107
LCSD 280-480548/5	Lab Control Sample Dup	98	100	99	101
LCSD 280-480613/4	Lab Control Sample Dup	101	101	98	100
LCSD 280-481059/5	Lab Control Sample Dup	89	106	98	106
MB 280-480548/6	Method Blank	101	100	99	100
MB 280-480613/6	Method Blank	104	101	100	100
MB 280-481059/8	Method Blank	88	104	93	107

Surrogate Legend

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

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DBP2 (70-130)
280-131609-1	MW-1A	105
280-131609-2	MW-7A	106
280-131609-3	MW-5A	95
280-131609-4	TRIP BLANK	98
280-131664-1	MW-3A	103
280-131664-2	MW-4A	101
280-131664-3	MW-14A	117
280-131664-4	MW-9A	111
280-131664-5	MW-11A	109
280-131664-6	MW-15A	108
280-131664-7	TRIP BLANK 1	102

Surrogate Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	12DBP2 (70-130)						
280-131758-2	MW-6AR	109						
280-131758-3	MW-2AR	109						
280-131758-4	MW-8R	99						
LCS 280-480280/2-A	Lab Control Sample	104						
LCS 280-480684/2-A	Lab Control Sample	110						
LCS 280-480685/2-A	Lab Control Sample	111						
LCSD 280-480280/3-A	Lab Control Sample Dup	108						
LCSD 280-480684/3-A	Lab Control Sample Dup	112						
LCSD 280-480685/3-A	Lab Control Sample Dup	116						
MB 280-480280/1-A	Method Blank	103						
MB 280-480684/1-A	Method Blank	110						
MB 280-480685/1-A	Method Blank	112						

Surrogate Legend

12DBP = 1,2-Dibromopropane

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

Lab Sample ID: MB 280-480548/6
Matrix: Water
Analysis Batch: 480548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 15:27	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/14/19 15:27	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/14/19 15:27	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/14/19 15:27	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/14/19 15:27	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/14/19 15:27	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/14/19 15:27	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/14/19 15:27	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/14/19 15:27	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/14/19 15:27	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/14/19 15:27	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/14/19 15:27	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/14/19 15:27	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/14/19 15:27	1
Acetone	1.9	U	20	1.9	ug/L			12/14/19 15:27	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/14/19 15:27	1
Benzene	0.16	U	1.0	0.16	ug/L			12/14/19 15:27	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/14/19 15:27	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 15:27	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/14/19 15:27	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/14/19 15:27	1
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/14/19 15:27	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/14/19 15:27	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/14/19 15:27	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/14/19 15:27	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/14/19 15:27	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/14/19 15:27	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 15:27	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/14/19 15:27	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/14/19 15:27	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/14/19 15:27	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/14/19 15:27	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/14/19 15:27	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/14/19 15:27	1
Styrene	0.36	U	1.0	0.36	ug/L			12/14/19 15:27	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/14/19 15:27	1
Toluene	0.17	U	1.0	0.17	ug/L			12/14/19 15:27	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/14/19 15:27	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/14/19 15:27	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/14/19 15:27	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/14/19 15:27	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/14/19 15:27	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/14/19 15:27	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/14/19 15:27	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/14/19 15:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*12/14/19 15:27*	*1*

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

Lab Sample ID: MB 280-480548/6
Matrix: Water
Analysis Batch: 480548

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		78 - 120		12/14/19 15:27	1
Dibromofluoromethane (Surr)	99		77 - 120		12/14/19 15:27	1
Toluene-d8 (Surr)	100		80 - 125		12/14/19 15:27	1

Lab Sample ID: LCS 280-480548/4
Matrix: Water
Analysis Batch: 480548

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	21.1		ug/L		85	65 - 135
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	65 - 135
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	58 - 135
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	64 - 135
1,1-Dichloroethane	25.0	23.7		ug/L		95	65 - 135
1,1-Dichloroethene	25.0	23.5		ug/L		94	65 - 136
1,2,3-Trichloropropane	25.0	21.6		ug/L		86	65 - 135
1,2-Dichlorobenzene	25.0	22.3		ug/L		89	65 - 135
1,2-Dichloroethane	25.0	24.9		ug/L		100	65 - 135
1,2-Dichloropropane	25.0	25.2		ug/L		101	64 - 135
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	65 - 135
2-Butanone (MEK)	100	78.3		ug/L		78	44 - 177
2-Hexanone	100	85.7		ug/L		86	57 - 139
4-Methyl-2-pentanone (MIBK)	100	86.7		ug/L		87	60 - 150
Acetone	100	83.7		ug/L		84	39 - 156
Acrylonitrile	250	206		ug/L		82	56 - 135
Benzene	25.0	23.2		ug/L		93	65 - 135
Bromochloromethane	25.0	23.9		ug/L		96	65 - 135
Bromodichloromethane	25.0	25.0		ug/L		100	65 - 135
Bromoform	25.0	17.8		ug/L		71	62 - 135
Bromomethane	25.0	23.6		ug/L		94	45 - 135
Carbon disulfide	25.0	22.5		ug/L		90	55 - 143
Carbon tetrachloride	25.0	20.2		ug/L		81	65 - 135
Chlorobenzene	25.0	23.8		ug/L		95	65 - 135
Chloroethane	25.0	20.6		ug/L		82	46 - 136
Chloroform	25.0	23.6		ug/L		94	65 - 135
Chloromethane	25.0	17.8		ug/L		71	34 - 145
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	65 - 135
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	65 - 135
Dibromochloromethane	25.0	20.9		ug/L		84	65 - 135
Dibromomethane	25.0	23.3		ug/L		93	65 - 135
Ethylbenzene	25.0	23.2		ug/L		93	65 - 135
Iodomethane	25.0	22.3		ug/L		89	65 - 142
Methylene Chloride	25.0	24.0		ug/L		96	54 - 141
Styrene	25.0	24.8		ug/L		99	65 - 135
Tetrachloroethene	25.0	22.2		ug/L		89	65 - 135
Toluene	25.0	23.8		ug/L		95	65 - 135
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	65 - 135
trans-1,3-Dichloropropene	25.0	21.1		ug/L		84	65 - 135

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

Lab Sample ID: LCS 280-480548/4
Matrix: Water
Analysis Batch: 480548

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-1,4-Dichloro-2-butene			25.0	22.2		ug/L		89	53 - 135		
Trichloroethene			25.0	23.3		ug/L		93	65 - 135		
Trichlorofluoromethane			25.0	16.4		ug/L		65	53 - 137		
Vinyl acetate			50.0	51.6		ug/L		103	11 - 187		
Vinyl chloride			25.0	17.2		ug/L		69	40 - 137		
Xylenes (total)			50.0	46.8		ug/L		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCSD 280-480548/5
Matrix: Water
Analysis Batch: 480548

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	22.0		ug/L		88	65 - 135	4	20
1,1,1-Trichloroethane			25.0	23.3		ug/L		93	65 - 135	2	20
1,1,2,2-Tetrachloroethane			25.0	24.1		ug/L		96	58 - 135	9	20
1,1,2-Trichloroethane			25.0	24.6		ug/L		99	64 - 135	5	27
1,1-Dichloroethane			25.0	23.5		ug/L		94	65 - 135	1	21
1,1-Dichloroethene			25.0	22.8		ug/L		91	65 - 136	3	20
1,2,3-Trichloropropane			25.0	24.6		ug/L		98	65 - 135	13	23
1,2-Dichlorobenzene			25.0	23.1		ug/L		92	65 - 135	4	20
1,2-Dichloroethane			25.0	25.5		ug/L		102	65 - 135	2	20
1,2-Dichloropropane			25.0	25.4		ug/L		101	64 - 135	1	20
1,4-Dichlorobenzene			25.0	25.4		ug/L		102	65 - 135	3	23
2-Butanone (MEK)			100	96.1		ug/L		96	44 - 177	20	32
2-Hexanone			100	108		ug/L		108	57 - 139	23	25
4-Methyl-2-pentanone (MIBK)			100	105		ug/L		105	60 - 150	19	22
Acetone			100	98.6		ug/L		99	39 - 156	16	23
Acrylonitrile			250	237		ug/L		95	56 - 135	14	30
Benzene			25.0	23.5		ug/L		94	65 - 135	1	20
Bromochloromethane			25.0	23.5		ug/L		94	65 - 135	2	29
Bromodichloromethane			25.0	25.1		ug/L		100	65 - 135	0	20
Bromoform			25.0	19.5		ug/L		78	62 - 135	9	27
Bromomethane			25.0	24.4		ug/L		97	45 - 135	3	33
Carbon disulfide			25.0	21.9		ug/L		87	55 - 143	3	20
Carbon tetrachloride			25.0	19.8		ug/L		79	65 - 135	2	21
Chlorobenzene			25.0	24.4		ug/L		97	65 - 135	2	20
Chloroethane			25.0	23.3		ug/L		93	46 - 136	12	25
Chloroform			25.0	23.5		ug/L		94	65 - 135	0	20
Chloromethane			25.0	19.6		ug/L		78	34 - 145	10	24
cis-1,2-Dichloroethene			25.0	24.7		ug/L		99	65 - 135	1	20
cis-1,3-Dichloropropene			25.0	27.8		ug/L		111	65 - 135	4	26
Dibromochloromethane			25.0	22.0		ug/L		88	65 - 135	5	20

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

Lab Sample ID: LCSD 280-480548/5
Matrix: Water
Analysis Batch: 480548

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane			25.0	23.9		ug/L		96	65 - 135	3	26
Ethylbenzene			25.0	23.3		ug/L		93	65 - 135	0	20
Iodomethane			25.0	22.7		ug/L		91	65 - 142	2	25
Methylene Chloride			25.0	23.8		ug/L		95	54 - 141	1	26
Styrene			25.0	25.8		ug/L		103	65 - 135	4	26
Tetrachloroethene			25.0	22.2		ug/L		89	65 - 135	0	20
Toluene			25.0	24.0		ug/L		96	65 - 135	1	20
trans-1,2-Dichloroethene			25.0	23.2		ug/L		93	65 - 135	1	24
trans-1,3-Dichloropropene			25.0	22.2		ug/L		89	65 - 135	5	26
trans-1,4-Dichloro-2-butene			25.0	25.2		ug/L		101	53 - 135	12	25
Trichloroethene			25.0	22.9		ug/L		92	65 - 135	2	20
Trichlorofluoromethane			25.0	18.5		ug/L		74	53 - 137	12	27
Vinyl acetate			50.0	57.2		ug/L		114	11 - 187	10	24
Vinyl chloride			25.0	19.2		ug/L		77	40 - 137	11	24
Xylenes (total)			50.0	47.8		ug/L		96	65 - 135	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: MB 280-480613/6
Matrix: Water
Analysis Batch: 480613

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/15/19 21:02	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/15/19 21:02	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/15/19 21:02	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/15/19 21:02	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/15/19 21:02	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/15/19 21:02	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/15/19 21:02	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/15/19 21:02	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/15/19 21:02	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			12/15/19 21:02	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/15/19 21:02	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/15/19 21:02	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/15/19 21:02	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/15/19 21:02	1
Acetone	1.9	U	20	1.9	ug/L			12/15/19 21:02	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/15/19 21:02	1
Benzene	0.16	U	1.0	0.16	ug/L			12/15/19 21:02	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/15/19 21:02	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/15/19 21:02	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/15/19 21:02	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/15/19 21:02	1

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

Lab Sample ID: MB 280-480613/6
Matrix: Water
Analysis Batch: 480613

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.17	U	2.0	0.17	ug/L			12/15/19 21:02	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/15/19 21:02	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/15/19 21:02	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/15/19 21:02	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/15/19 21:02	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/15/19 21:02	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/15/19 21:02	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/15/19 21:02	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/15/19 21:02	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/15/19 21:02	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/15/19 21:02	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/15/19 21:02	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/15/19 21:02	1
Styrene	0.36	U	1.0	0.36	ug/L			12/15/19 21:02	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/15/19 21:02	1
Toluene	0.17	U	1.0	0.17	ug/L			12/15/19 21:02	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/15/19 21:02	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/15/19 21:02	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/15/19 21:02	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/15/19 21:02	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/15/19 21:02	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/15/19 21:02	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/15/19 21:02	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/15/19 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*12/15/19 21:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*12/15/19 21:02*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*12/15/19 21:02*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*12/15/19 21:02*	*1*

Lab Sample ID: LCS 280-480613/3
Matrix: Water
Analysis Batch: 480613

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	19.6		ug/L		78	65 - 135
1,1,1-Trichloroethane	25.0	24.2		ug/L		97	65 - 135
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	58 - 135
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	64 - 135
1,1-Dichloroethane	25.0	23.4		ug/L		93	65 - 135
1,1-Dichloroethene	25.0	24.1		ug/L		97	65 - 136
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	65 - 135
1,2-Dichlorobenzene	25.0	21.9		ug/L		88	65 - 135
1,2-Dichloroethane	25.0	25.0		ug/L		100	65 - 135
1,2-Dichloropropane	25.0	24.9		ug/L		99	64 - 135
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	65 - 135
2-Butanone (MEK)	100	95.1		ug/L		95	44 - 177

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

Lab Sample ID: LCS 280-480613/3
Matrix: Water
Analysis Batch: 480613

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	100	106		ug/L		106	57 - 139
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	60 - 150
Acetone	100	99.5		ug/L		99	39 - 156
Acrylonitrile	250	235		ug/L		94	56 - 135
Benzene	25.0	22.7		ug/L		91	65 - 135
Bromochloromethane	25.0	21.9		ug/L		88	65 - 135
Bromodichloromethane	25.0	23.7		ug/L		95	65 - 135
Bromoform	25.0	16.4		ug/L		66	62 - 135
Bromomethane	25.0	25.3		ug/L		101	45 - 135
Carbon disulfide	25.0	22.0		ug/L		88	55 - 143
Carbon tetrachloride	25.0	20.5		ug/L		82	65 - 135
Chlorobenzene	25.0	23.0		ug/L		92	65 - 135
Chloroethane	25.0	24.5		ug/L		98	46 - 136
Chloroform	25.0	22.9		ug/L		92	65 - 135
Chloromethane	25.0	21.8		ug/L		87	34 - 145
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	65 - 135
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	65 - 135
Dibromochloromethane	25.0	19.6		ug/L		78	65 - 135
Dibromomethane	25.0	23.2		ug/L		93	65 - 135
Ethylbenzene	25.0	23.1		ug/L		92	65 - 135
Iodomethane	25.0	19.8		ug/L		79	65 - 142
Methylene Chloride	25.0	23.1		ug/L		92	54 - 141
Styrene	25.0	24.4		ug/L		97	65 - 135
Tetrachloroethene	25.0	22.1		ug/L		88	65 - 135
Toluene	25.0	23.3		ug/L		93	65 - 135
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	65 - 135
trans-1,3-Dichloropropene	25.0	19.4		ug/L		78	65 - 135
trans-1,4-Dichloro-2-butene	25.0	23.1		ug/L		93	53 - 135
Trichloroethene	25.0	23.4		ug/L		93	65 - 135
Trichlorofluoromethane	25.0	25.2		ug/L		101	53 - 137
Vinyl acetate	50.0	53.3		ug/L		107	11 - 187
Vinyl chloride	25.0	23.6		ug/L		94	40 - 137
Xylenes (total)	50.0	46.6		ug/L		93	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Sample ID: LCSD 280-480613/4
Matrix: Water
Analysis Batch: 480613

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	20.6		ug/L		83	65 - 135	5	20
1,1,1-Trichloroethane	25.0	24.4		ug/L		98	65 - 135	1	20
1,1,2,2-Tetrachloroethane	25.0	23.3		ug/L		93	58 - 135	3	20

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

Lab Sample ID: LCSD 280-480613/4
Matrix: Water
Analysis Batch: 480613

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			25.0	24.0		ug/L		96	64 - 135	3	27
1,1-Dichloroethane			25.0	23.8		ug/L		95	65 - 135	2	21
1,1-Dichloroethene			25.0	24.2		ug/L		97	65 - 136	0	20
1,2,3-Trichloropropane			25.0	23.4		ug/L		94	65 - 135	4	23
1,2-Dichlorobenzene			25.0	22.5		ug/L		90	65 - 135	3	20
1,2-Dichloroethane			25.0	25.0		ug/L		100	65 - 135	0	20
1,2-Dichloropropane			25.0	25.4		ug/L		102	64 - 135	2	20
1,4-Dichlorobenzene			25.0	24.4		ug/L		98	65 - 135	3	23
2-Butanone (MEK)			100	96.1		ug/L		96	44 - 177	1	32
2-Hexanone			100	106		ug/L		106	57 - 139	0	25
4-Methyl-2-pentanone (MIBK)			100	104		ug/L		104	60 - 150	2	22
Acetone			100	96.8		ug/L		97	39 - 156	3	23
Acrylonitrile			250	238		ug/L		95	56 - 135	1	30
Benzene			25.0	23.3		ug/L		93	65 - 135	3	20
Bromochloromethane			25.0	22.7		ug/L		91	65 - 135	4	29
Bromodichloromethane			25.0	24.1		ug/L		96	65 - 135	2	20
Bromoform			25.0	17.0		ug/L		68	62 - 135	3	27
Bromomethane			25.0	22.9		ug/L		92	45 - 135	10	33
Carbon disulfide			25.0	22.3		ug/L		89	55 - 143	1	20
Carbon tetrachloride			25.0	20.9		ug/L		83	65 - 135	2	21
Chlorobenzene			25.0	23.7		ug/L		95	65 - 135	3	20
Chloroethane			25.0	24.8		ug/L		99	46 - 136	1	25
Chloroform			25.0	23.3		ug/L		93	65 - 135	2	20
Chloromethane			25.0	21.8		ug/L		87	34 - 145	0	24
cis-1,2-Dichloroethene			25.0	23.9		ug/L		96	65 - 135	0	20
cis-1,3-Dichloropropene			25.0	25.2		ug/L		101	65 - 135	3	26
Dibromochloromethane			25.0	20.1		ug/L		81	65 - 135	3	20
Dibromomethane			25.0	23.4		ug/L		94	65 - 135	1	26
Ethylbenzene			25.0	23.7		ug/L		95	65 - 135	3	20
Iodomethane			25.0	20.5		ug/L		82	65 - 142	3	25
Methylene Chloride			25.0	23.1		ug/L		92	54 - 141	0	26
Styrene			25.0	24.8		ug/L		99	65 - 135	2	26
Tetrachloroethene			25.0	22.7		ug/L		91	65 - 135	3	20
Toluene			25.0	24.2		ug/L		97	65 - 135	4	20
trans-1,2-Dichloroethene			25.0	23.3		ug/L		93	65 - 135	1	24
trans-1,3-Dichloropropene			25.0	20.0		ug/L		80	65 - 135	3	26
trans-1,4-Dichloro-2-butene			25.0	23.7		ug/L		95	53 - 135	2	25
Trichloroethene			25.0	23.7		ug/L		95	65 - 135	1	20
Trichlorofluoromethane			25.0	25.0		ug/L		100	53 - 137	1	27
Vinyl acetate			50.0	51.9		ug/L		104	11 - 187	3	24
Vinyl chloride			25.0	23.6		ug/L		95	40 - 137	0	24
Xylenes (total)			50.0	47.3		ug/L		95	65 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

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

Lab Sample ID: 280-131975-A-1 MSD
Matrix: Water
Analysis Batch: 480613

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.21	U	25.0	21.5		ug/L		86	65 - 135	3	20
1,1,1-Trichloroethane	0.16	U	25.0	25.1		ug/L		100	65 - 135	5	20
1,1,2,2-Tetrachloroethane	0.21	U	25.0	25.2		ug/L		101	58 - 135	4	20
1,1,2-Trichloroethane	0.27	U	25.0	25.2		ug/L		101	64 - 135	1	27
1,1-Dichloroethane	0.22	U	25.0	24.9		ug/L		100	65 - 135	2	21
1,1-Dichloroethene	0.23	U	25.0	21.7		ug/L		87	65 - 136	2	20
1,2,3-Trichloropropane	0.33	U	25.0	25.1		ug/L		100	65 - 135	2	23
1,2-Dichlorobenzene	0.15	U	25.0	24.9		ug/L		99	65 - 135	2	20
1,2-Dichloroethane	0.13	U	25.0	26.6		ug/L		106	65 - 135	0	20
1,2-Dichloropropane	0.18	U	25.0	26.5		ug/L		106	64 - 135	3	20
1,4-Dichlorobenzene	0.16	U	25.0	26.0		ug/L		104	65 - 135	2	23
2-Butanone (MEK)	2.0	U	100	99.9		ug/L		100	44 - 177	0	32
2-Hexanone	1.7	U	100	109		ug/L		109	57 - 139	1	25
4-Methyl-2-pentanone (MIBK)	0.98	U	100	109		ug/L		109	60 - 150	1	22
Acetone	1.9	U	100	102		ug/L		102	39 - 156	0	23
Acrylonitrile	1.4	U	250	251		ug/L		101	56 - 135	1	30
Benzene	0.16	U	25.0	24.8		ug/L		99	65 - 135	1	20
Bromochloromethane	0.10	U	25.0	23.8		ug/L		95	65 - 135	0	29
Bromodichloromethane	0.17	U	25.0	25.2		ug/L		101	65 - 135	4	20
Bromoform	0.46	U	25.0	17.9		ug/L		72	62 - 135	5	27
Bromomethane	0.21	U	25.0	24.0		ug/L		96	45 - 135	5	33
Carbon disulfide	0.17	U	25.0	19.1		ug/L		76	55 - 143	3	20
Carbon tetrachloride	0.19	U	25.0	21.7		ug/L		87	65 - 135	7	21
Chlorobenzene	0.17	U	25.0	25.4		ug/L		101	65 - 135	2	20
Chloroethane	0.41	U	25.0	25.6		ug/L		102	46 - 136	1	25
Chloroform	0.16	U	25.0	24.8		ug/L		99	65 - 135	2	20
Chloromethane	0.30	U	25.0	22.6		ug/L		90	34 - 145	1	24
cis-1,2-Dichloroethene	0.15	U	25.0	25.0		ug/L		100	65 - 135	3	20
cis-1,3-Dichloropropene	0.16	U	25.0	26.0		ug/L		104	65 - 135	2	26
Dibromochloromethane	0.17	U	25.0	20.8		ug/L		83	65 - 135	3	20
Dibromomethane	0.17	U	25.0	24.0		ug/L		96	65 - 135	0	26
Ethylbenzene	0.16	U	25.0	25.0		ug/L		100	65 - 135	1	20
Iodomethane	0.23	U	25.0	19.8		ug/L		79	65 - 142	11	25
Methylene Chloride	0.94	U	25.0	23.5		ug/L		94	54 - 141	0	26
Styrene	0.36	U	25.0	26.5		ug/L		106	65 - 135	3	26
Tetrachloroethene	0.20	U	25.0	24.4		ug/L		98	65 - 135	2	20
Toluene	0.17	U	25.0	25.7		ug/L		103	65 - 135	1	20
trans-1,2-Dichloroethene	0.15	U	25.0	23.3		ug/L		93	65 - 135	3	24
trans-1,3-Dichloropropene	0.19	U	25.0	21.7		ug/L		87	65 - 135	4	26
trans-1,4-Dichloro-2-butene	0.80	U	25.0	25.4		ug/L		102	53 - 135	5	25
Trichloroethene	0.16	U	25.0	25.3		ug/L		101	65 - 135	2	20
Trichlorofluoromethane	0.29	U	25.0	25.8		ug/L		103	53 - 137	2	27
Vinyl acetate	0.94	U	50.0	58.9		ug/L		118	11 - 187	4	24
Vinyl chloride	0.10	U	25.0	24.2		ug/L		97	40 - 137	0	24
Xylenes (total)	0.19	U	50.0	50.7		ug/L		101	65 - 135	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*

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

Lab Sample ID: 280-131975-A-1 MSD
Matrix: Water
Analysis Batch: 480613

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: MB 280-481059/8
Matrix: Water
Analysis Batch: 481059

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 14:03	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			12/19/19 14:03	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/19/19 14:03	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			12/19/19 14:03	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			12/19/19 14:03	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			12/19/19 14:03	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			12/19/19 14:03	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			12/19/19 14:03	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			12/19/19 14:03	1
1,2-Dichloropropane	0.202	I	1.0	0.18	ug/L			12/19/19 14:03	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			12/19/19 14:03	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			12/19/19 14:03	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			12/19/19 14:03	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			12/19/19 14:03	1
Acetone	1.9	U	20	1.9	ug/L			12/19/19 14:03	1
Acrylonitrile	1.4	U	20	1.4	ug/L			12/19/19 14:03	1
Benzene	0.16	U	1.0	0.16	ug/L			12/19/19 14:03	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			12/19/19 14:03	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 14:03	1
Bromoform	0.46	U	1.0	0.46	ug/L			12/19/19 14:03	1
Bromomethane	0.21	U	2.0	0.21	ug/L			12/19/19 14:03	1
Carbon disulfide	0.624	I	2.0	0.17	ug/L			12/19/19 14:03	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			12/19/19 14:03	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			12/19/19 14:03	1
Chloroethane	0.41	U	2.0	0.41	ug/L			12/19/19 14:03	1
Chloroform	0.16	U	1.0	0.16	ug/L			12/19/19 14:03	1
Chloromethane	0.30	U	2.0	0.30	ug/L			12/19/19 14:03	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 14:03	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			12/19/19 14:03	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			12/19/19 14:03	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			12/19/19 14:03	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			12/19/19 14:03	1
Iodomethane	0.23	U	1.0	0.23	ug/L			12/19/19 14:03	1
Methylene Chloride	0.94	U	2.0	0.94	ug/L			12/19/19 14:03	1
Styrene	0.36	U	1.0	0.36	ug/L			12/19/19 14:03	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			12/19/19 14:03	1
Toluene	0.17	U	1.0	0.17	ug/L			12/19/19 14:03	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			12/19/19 14:03	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			12/19/19 14:03	1

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

Lab Sample ID: MB 280-481059/8
Matrix: Water
Analysis Batch: 481059

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			12/19/19 14:03	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			12/19/19 14:03	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			12/19/19 14:03	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			12/19/19 14:03	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			12/19/19 14:03	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			12/19/19 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*12/19/19 14:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*12/19/19 14:03*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*12/19/19 14:03*	*1*
Toluene-d8 (Surr)	*107*		*80 - 125*		*12/19/19 14:03*	*1*

Lab Sample ID: LCS 280-481059/4
Matrix: Water
Analysis Batch: 481059

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	20.9		ug/L		84	65 - 135
1,1,1-Trichloroethane	25.0	22.4		ug/L		90	65 - 135
1,1,2,2-Tetrachloroethane	25.0	26.8		ug/L		107	58 - 135
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	64 - 135
1,1-Dichloroethane	25.0	25.4		ug/L		102	65 - 135
1,1-Dichloroethene	25.0	28.1		ug/L		112	65 - 136
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	65 - 135
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	65 - 135
1,2-Dichloroethane	25.0	19.9		ug/L		80	65 - 135
1,2-Dichloropropane	25.0	25.3		ug/L		101	64 - 135
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	65 - 135
2-Butanone (MEK)	100	90.5		ug/L		91	44 - 177
2-Hexanone	100	91.7		ug/L		92	57 - 139
4-Methyl-2-pentanone (MIBK)	100	99.1		ug/L		99	60 - 150
Acetone	100	78.7		ug/L		79	39 - 156
Acrylonitrile	250	240		ug/L		96	56 - 135
Benzene	25.0	24.1		ug/L		96	65 - 135
Bromochloromethane	25.0	23.2		ug/L		93	65 - 135
Bromodichloromethane	25.0	20.7		ug/L		83	65 - 135
Bromoform	25.0	17.5		ug/L		70	62 - 135
Bromomethane	25.0	28.8		ug/L		115	45 - 135
Carbon disulfide	25.0	26.9		ug/L		108	55 - 143
Carbon tetrachloride	25.0	19.9		ug/L		80	65 - 135
Chlorobenzene	25.0	23.3		ug/L		93	65 - 135
Chloroethane	25.0	22.9		ug/L		92	46 - 136
Chloroform	25.0	23.2		ug/L		93	65 - 135
Chloromethane	25.0	13.0		ug/L		52	34 - 145
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	65 - 135
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	65 - 135
Dibromochloromethane	25.0	20.2		ug/L		81	65 - 135

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

Lab Sample ID: LCS 280-481059/4
Matrix: Water
Analysis Batch: 481059

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	25.0	22.6		ug/L		90	65 - 135
Ethylbenzene	25.0	24.0		ug/L		96	65 - 135
Iodomethane	25.0	30.3		ug/L		121	65 - 142
Methylene Chloride	25.0	24.3		ug/L		97	54 - 141
Styrene	25.0	25.3		ug/L		101	65 - 135
Tetrachloroethene	25.0	24.7		ug/L		99	65 - 135
Toluene	25.0	23.7		ug/L		95	65 - 135
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	65 - 135
trans-1,3-Dichloropropene	25.0	20.6		ug/L		82	65 - 135
trans-1,4-Dichloro-2-butene	25.0	21.0		ug/L		84	53 - 135
Trichloroethene	25.0	23.6		ug/L		94	65 - 135
Trichlorofluoromethane	25.0	18.5		ug/L		74	53 - 137
Vinyl acetate	50.0	41.4		ug/L		83	11 - 187
Vinyl chloride	25.0	15.3		ug/L		61	40 - 137
Xylenes (total)	50.0	48.0		ug/L		96	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*107*		*80 - 125*

Lab Sample ID: LCSD 280-481059/5
Matrix: Water
Analysis Batch: 481059

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	21.1		ug/L		84	65 - 135	1	20
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	65 - 135	1	20
1,1,2,2-Tetrachloroethane	25.0	27.0		ug/L		108	58 - 135	1	20
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	64 - 135	2	27
1,1-Dichloroethane	25.0	25.1		ug/L		100	65 - 135	1	21
1,1-Dichloroethene	25.0	27.8		ug/L		111	65 - 136	1	20
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	65 - 135	1	23
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	65 - 135	2	20
1,2-Dichloroethane	25.0	19.8		ug/L		79	65 - 135	0	20
1,2-Dichloropropane	25.0	25.5		ug/L		102	64 - 135	1	20
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	65 - 135	2	23
2-Butanone (MEK)	100	91.7		ug/L		92	44 - 177	1	32
2-Hexanone	100	92.5		ug/L		93	57 - 139	1	25
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	60 - 150	2	22
Acetone	100	80.8		ug/L		81	39 - 156	3	23
Acrylonitrile	250	245		ug/L		98	56 - 135	2	30
Benzene	25.0	24.1		ug/L		96	65 - 135	0	20
Bromochloromethane	25.0	23.0		ug/L		92	65 - 135	1	29
Bromodichloromethane	25.0	20.9		ug/L		84	65 - 135	1	20
Bromoform	25.0	17.4		ug/L		70	62 - 135	1	27
Bromomethane	25.0	26.9		ug/L		107	45 - 135	7	33

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

Lab Sample ID: LCSD 280-481059/5
Matrix: Water
Analysis Batch: 481059

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide			25.0	26.6		ug/L		107	55 - 143	1	20
Carbon tetrachloride			25.0	19.7		ug/L		79	65 - 135	1	21
Chlorobenzene			25.0	23.5		ug/L		94	65 - 135	1	20
Chloroethane			25.0	22.8		ug/L		91	46 - 136	1	25
Chloroform			25.0	23.3		ug/L		93	65 - 135	0	20
Chloromethane			25.0	13.2		ug/L		53	34 - 145	1	24
cis-1,2-Dichloroethene			25.0	25.0		ug/L		100	65 - 135	2	20
cis-1,3-Dichloropropene			25.0	23.5		ug/L		94	65 - 135	1	26
Dibromochloromethane			25.0	20.4		ug/L		82	65 - 135	1	20
Dibromomethane			25.0	23.0		ug/L		92	65 - 135	2	26
Ethylbenzene			25.0	23.7		ug/L		95	65 - 135	1	20
Iodomethane			25.0	32.9		ug/L		131	65 - 142	8	25
Methylene Chloride			25.0	24.4		ug/L		98	54 - 141	1	26
Styrene			25.0	25.2		ug/L		101	65 - 135	1	26
Tetrachloroethene			25.0	24.7		ug/L		99	65 - 135	0	20
Toluene			25.0	23.8		ug/L		95	65 - 135	0	20
trans-1,2-Dichloroethene			25.0	24.2		ug/L		97	65 - 135	1	24
trans-1,3-Dichloropropene			25.0	20.9		ug/L		84	65 - 135	1	26
trans-1,4-Dichloro-2-butene			25.0	21.3		ug/L		85	53 - 135	2	25
Trichloroethene			25.0	23.7		ug/L		95	65 - 135	1	20
Trichlorofluoromethane			25.0	17.9		ug/L		71	53 - 137	3	27
Vinyl acetate			50.0	41.4		ug/L		83	11 - 187	0	24
Vinyl chloride			25.0	15.0		ug/L		60	40 - 137	2	24
Xylenes (total)			50.0	47.9		ug/L		96	65 - 135	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*106*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 125*

Lab Sample ID: 280-131931-E-1 MSD
Matrix: Water
Analysis Batch: 481059

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.21	U	25.0	21.0		ug/L		84	65 - 135	6	20
1,1,1-Trichloroethane	0.16	U	25.0	23.7		ug/L		95	65 - 135	7	20
1,1,2,2-Tetrachloroethane	0.21	U	25.0	26.2		ug/L		105	58 - 135	3	20
1,1,2-Trichloroethane	0.27	U	25.0	23.9		ug/L		95	64 - 135	4	27
1,1-Dichloroethane	0.22	U	25.0	25.5		ug/L		102	65 - 135	3	21
1,1-Dichloroethene	0.23	U	25.0	29.6		ug/L		118	65 - 136	4	20
1,2,3-Trichloropropane	0.33	U	25.0	24.1		ug/L		96	65 - 135	5	23
1,2-Dichlorobenzene	0.15	U	25.0	22.1		ug/L		88	65 - 135	2	20
1,2-Dichloroethane	0.13	U	25.0	19.4		ug/L		77	65 - 135	2	20
1,2-Dichloropropane	0.18	U	25.0	25.1		ug/L		101	64 - 135	4	20
1,4-Dichlorobenzene	0.16	U	25.0	24.5		ug/L		98	65 - 135	2	23
2-Butanone (MEK)	2.0	U	100	86.3		ug/L		86	44 - 177	3	32

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

Lab Sample ID: 280-131931-E-1 MSD
Matrix: Water
Analysis Batch: 481059

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	1.7	U	100	88.0		ug/L		88	57 - 139	5	25
4-Methyl-2-pentanone (MIBK)	0.98	U	100	95.5		ug/L		96	60 - 150	5	22
Acetone	1.9	U	100	76.5		ug/L		76	39 - 156	8	23
Acrylonitrile	1.4	U	250	231		ug/L		92	56 - 135	4	30
Benzene	0.16	U	25.0	24.3		ug/L		97	65 - 135	2	20
Bromochloromethane	0.10	U	25.0	22.6		ug/L		91	65 - 135	2	29
Bromodichloromethane	0.17	U	25.0	20.7		ug/L		83	65 - 135	4	20
Bromoform	0.46	U	25.0	16.9		ug/L		67	62 - 135	6	27
Bromomethane	0.21	U	25.0	28.4		ug/L		114	45 - 135	6	33
Carbon disulfide	0.17	U	25.0	28.9		ug/L		116	55 - 143	6	20
Carbon tetrachloride	0.19	U	25.0	20.8		ug/L		83	65 - 135	5	21
Chlorobenzene	0.17	U	25.0	23.4		ug/L		93	65 - 135	4	20
Chloroethane	0.41	U	25.0	25.0		ug/L		100	46 - 136	5	25
Chloroform	0.16	U	25.0	23.3		ug/L		93	65 - 135	4	20
Chloromethane	0.30	U	25.0	14.5		ug/L		58	34 - 145	6	24
cis-1,2-Dichloroethene	0.15	U	25.0	24.6		ug/L		98	65 - 135	4	20
cis-1,3-Dichloropropene	0.16	U	25.0	22.7		ug/L		91	65 - 135	7	26
Dibromochloromethane	0.17	U	25.0	19.8		ug/L		79	65 - 135	5	20
Dibromomethane	0.17	U	25.0	22.5		ug/L		90	65 - 135	5	26
Ethylbenzene	0.16	U	25.0	24.0		ug/L		96	65 - 135	3	20
Iodomethane	0.23	U	25.0	33.7		ug/L		135	65 - 142	25	25
Methylene Chloride	0.94	U	25.0	23.8		ug/L		95	54 - 141	2	26
Styrene	0.36	U	25.0	24.7		ug/L		99	65 - 135	3	26
Tetrachloroethene	0.20	U	25.0	25.0		ug/L		100	65 - 135	3	20
Toluene	0.17	U	25.0	23.9		ug/L		95	65 - 135	2	20
trans-1,2-Dichloroethene	0.15	U	25.0	25.3		ug/L		101	65 - 135	4	24
trans-1,3-Dichloropropene	0.19	U	25.0	19.5		ug/L		78	65 - 135	6	26
trans-1,4-Dichloro-2-butene	0.80	U	25.0	19.3		ug/L		77	53 - 135	3	25
Trichloroethene	0.16	U	25.0	24.0		ug/L		96	65 - 135	4	20
Trichlorofluoromethane	0.29	U	25.0	21.8		ug/L		87	53 - 137	5	27
Vinyl acetate	0.94	U	50.0	41.0		ug/L		82	11 - 187	6	24
Vinyl chloride	0.10	U	25.0	18.0		ug/L		72	40 - 137	4	24
Xylenes (total)	0.19	U	50.0	47.7		ug/L		95	65 - 135	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 125*

Lab Sample ID: 280-131931-F-1 MS
Matrix: Water
Analysis Batch: 481059

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.21	U	25.0	19.7		ug/L		79	65 - 135
1,1,1-Trichloroethane	0.16	U	25.0	22.2		ug/L		89	65 - 135
1,1,2,2-Tetrachloroethane	0.21	U	25.0	25.6		ug/L		102	58 - 135

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

Lab Sample ID: 280-131931-F-1 MS
Matrix: Water
Analysis Batch: 481059

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	0.27	U	25.0	23.0		ug/L		92	64 - 135
1,1-Dichloroethane	0.22	U	25.0	24.8		ug/L		99	65 - 135
1,1-Dichloroethene	0.23	U	25.0	28.4		ug/L		114	65 - 136
1,2,3-Trichloropropane	0.33	U	25.0	23.0		ug/L		92	65 - 135
1,2-Dichlorobenzene	0.15	U	25.0	21.7		ug/L		87	65 - 135
1,2-Dichloroethane	0.13	U	25.0	18.9		ug/L		76	65 - 135
1,2-Dichloropropane	0.18	U	25.0	24.1		ug/L		97	64 - 135
1,4-Dichlorobenzene	0.16	U	25.0	24.1		ug/L		96	65 - 135
2-Butanone (MEK)	2.0	U	100	84.1		ug/L		84	44 - 177
2-Hexanone	1.7	U	100	83.6		ug/L		84	57 - 139
4-Methyl-2-pentanone (MIBK)	0.98	U	100	91.2		ug/L		91	60 - 150
Acetone	1.9	U	100	70.8		ug/L		71	39 - 156
Acrylonitrile	1.4	U	250	223		ug/L		89	56 - 135
Benzene	0.16	U	25.0	23.7		ug/L		95	65 - 135
Bromochloromethane	0.10	U	25.0	22.1		ug/L		89	65 - 135
Bromodichloromethane	0.17	U	25.0	19.9		ug/L		79	65 - 135
Bromoform	0.46	U	25.0	16.0		ug/L		64	62 - 135
Bromomethane	0.21	U	25.0	26.6		ug/L		107	45 - 135
Carbon disulfide	0.17	U	25.0	27.3		ug/L		109	55 - 143
Carbon tetrachloride	0.19	U	25.0	19.7		ug/L		79	65 - 135
Chlorobenzene	0.17	U	25.0	22.4		ug/L		90	65 - 135
Chloroethane	0.41	U	25.0	23.9		ug/L		96	46 - 136
Chloroform	0.16	U	25.0	22.4		ug/L		89	65 - 135
Chloromethane	0.30	U	25.0	13.7		ug/L		55	34 - 145
cis-1,2-Dichloroethene	0.15	U	25.0	23.6		ug/L		94	65 - 135
cis-1,3-Dichloropropene	0.16	U	25.0	21.1		ug/L		84	65 - 135
Dibromochloromethane	0.17	U	25.0	18.7		ug/L		75	65 - 135
Dibromomethane	0.17	U	25.0	21.4		ug/L		85	65 - 135
Ethylbenzene	0.16	U	25.0	23.3		ug/L		93	65 - 135
Iodomethane	0.23	U	25.0	26.3		ug/L		105	65 - 142
Methylene Chloride	0.94	U	25.0	23.4		ug/L		93	54 - 141
Styrene	0.36	U	25.0	24.0		ug/L		96	65 - 135
Tetrachloroethene	0.20	U	25.0	24.2		ug/L		97	65 - 135
Toluene	0.17	U	25.0	23.4		ug/L		93	65 - 135
trans-1,2-Dichloroethene	0.15	U	25.0	24.4		ug/L		97	65 - 135
trans-1,3-Dichloropropene	0.19	U	25.0	18.4		ug/L		74	65 - 135
trans-1,4-Dichloro-2-butene	0.80	U	25.0	18.7		ug/L		75	53 - 135
Trichloroethene	0.16	U	25.0	23.2		ug/L		93	65 - 135
Trichlorofluoromethane	0.29	U	25.0	20.7		ug/L		83	53 - 137
Vinyl acetate	0.94	U	50.0	38.6		ug/L		77	11 - 187
Vinyl chloride	0.10	U	25.0	17.3		ug/L		69	40 - 137
Xylenes (total)	0.19	U	50.0	46.1		ug/L		92	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*107*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 125*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-480280/1-A
Matrix: Water
Analysis Batch: 480281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/11/19 18:00	12/11/19 20:48	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/11/19 18:00	12/11/19 20:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*103*		*70 - 130*	*12/11/19 18:00*	*12/11/19 20:48*	*1*

Lab Sample ID: LCS 280-480280/2-A
Matrix: Water
Analysis Batch: 480281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480280

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			0.250	0.232		ug/L		93	60 - 140		
1,2-Dibromo-3-Chloropropane			0.250	0.241		ug/L		97	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*104*		*70 - 130*

Lab Sample ID: LCSD 280-480280/3-A
Matrix: Water
Analysis Batch: 480281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 480280

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			0.250	0.249		ug/L		100	60 - 140	7	10
1,2-Dibromo-3-Chloropropane			0.250	0.242		ug/L		97	60 - 140	0	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*108*		*70 - 130*

Lab Sample ID: MB 280-480684/1-A
Matrix: Water
Analysis Batch: 480726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 14:00	12/16/19 19:08	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 14:00	12/16/19 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*110*		*70 - 130*	*12/16/19 14:00*	*12/16/19 19:08*	*1*

Lab Sample ID: LCS 280-480684/2-A
Matrix: Water
Analysis Batch: 480726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480684

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			0.250	0.233		ug/L		93	60 - 140		
1,2-Dibromo-3-Chloropropane			0.250	0.245		ug/L		98	60 - 140		

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 280-480684/2-A
Matrix: Water
Analysis Batch: 480726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480684

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dibromopropane	110		70 - 130

Lab Sample ID: LCSD 280-480684/3-A
Matrix: Water
Analysis Batch: 480726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 480684

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			0.250	0.233		ug/L		93	60 - 140	0	10
1,2-Dibromo-3-Chloropropane			0.250	0.250		ug/L		100	60 - 140	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dibromopropane	112		70 - 130

Lab Sample ID: MB 280-480685/1-A
Matrix: Water
Analysis Batch: 480726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0037	U	0.020	0.0037	ug/L		12/16/19 15:00	12/17/19 04:27	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		12/16/19 15:00	12/17/19 04:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	112		70 - 130	12/16/19 15:00	12/17/19 04:27	1

Lab Sample ID: LCS 280-480685/2-A
Matrix: Water
Analysis Batch: 480726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480685

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane			0.250	0.229		ug/L		92	60 - 140
1,2-Dibromo-3-Chloropropane			0.250	0.258		ug/L		103	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dibromopropane	111		70 - 130

Lab Sample ID: LCSD 280-480685/3-A
Matrix: Water
Analysis Batch: 480726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 480685

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			0.250	0.239		ug/L		96	60 - 140	4	10
1,2-Dibromo-3-Chloropropane			0.250	0.266		ug/L		106	60 - 140	3	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dibromopropane	116		70 - 130

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-481814/1-A
Matrix: Water
Analysis Batch: 482259

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82	U	10	0.82	ug/L		01/06/20 07:00	01/06/20 17:54	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 17:54	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 17:54	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 17:54	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 17:54	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 17:54	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 17:54	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 17:54	1
Iron	22	U	100	22	ug/L		01/06/20 07:00	01/06/20 17:54	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 17:54	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 17:54	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 17:54	1

Lab Sample ID: MB 280-481814/1-A
Matrix: Water
Analysis Batch: 482369

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.37	U	1.0	0.37	mg/L		01/06/20 07:00	01/07/20 18:28	1

Lab Sample ID: LCS 280-481814/2-A
Matrix: Water
Analysis Batch: 482259

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	1930		ug/L		97	90 - 112
Cadmium	1000	953		ug/L		95	88 - 111
Cobalt	1000	950		ug/L		95	89 - 111
Chromium	1000	951		ug/L		95	90 - 113
Copper	1000	958		ug/L		96	86 - 112
Nickel	1000	948		ug/L		95	89 - 111
Lead	1000	947		ug/L		95	89 - 110
Selenium	2000	1840		ug/L		92	85 - 112
Iron	10000	9530		ug/L		95	89 - 115
Vanadium	1000	968		ug/L		97	90 - 111
Zinc	500	474		ug/L		95	85 - 111
Silver	50.0	49.8		ug/L		100	86 - 115

Lab Sample ID: LCS 280-481814/2-A
Matrix: Water
Analysis Batch: 482369

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	50.0	49.5		mg/L		99	90 - 115

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-131607-1 MS
Matrix: Water
Analysis Batch: 482259

Client Sample ID: MW-1B
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	8.4	I	2000	1960		ug/L		97	85 - 120
Cadmium	0.45	U	1000	957		ug/L		96	82 - 119
Cobalt	1.2	U	1000	950		ug/L		95	82 - 119
Chromium	0.66	U	1000	957		ug/L		96	73 - 135
Copper	4.2	U	1000	972		ug/L		97	82 - 129
Nickel	2.6	U	1000	947		ug/L		95	84 - 120
Lead	2.7	U	1000	950		ug/L		95	89 - 121
Selenium	6.3	U	2000	1850		ug/L		92	71 - 140
Iron	29	I	10000	9610		ug/L		96	52 - 155
Vanadium	1.1	U	1000	978		ug/L		98	85 - 120
Zinc	4.5	U	500	476		ug/L		95	60 - 137
Silver	2.0	U	50.0	50.8		ug/L		102	75 - 141

Lab Sample ID: 280-131607-1 MS
Matrix: Water
Analysis Batch: 482369

Client Sample ID: MW-1B
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	5.2		50.0	55.7		mg/L		101	70 - 203

Lab Sample ID: 280-131607-1 MSD
Matrix: Water
Analysis Batch: 482259

Client Sample ID: MW-1B
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	8.4	I	2000	2010		ug/L		100	85 - 120	3	20
Cadmium	0.45	U	1000	981		ug/L		98	82 - 119	2	20
Cobalt	1.2	U	1000	973		ug/L		97	82 - 119	2	20
Chromium	0.66	U	1000	983		ug/L		98	73 - 135	3	20
Copper	4.2	U	1000	993		ug/L		99	82 - 129	2	20
Nickel	2.6	U	1000	972		ug/L		97	84 - 120	3	20
Lead	2.7	U	1000	971		ug/L		97	89 - 121	2	20
Selenium	6.3	U	2000	1910		ug/L		96	71 - 140	4	20
Iron	29	I	10000	10200		ug/L		102	52 - 155	6	20
Vanadium	1.1	U	1000	1000		ug/L		100	85 - 120	3	20
Zinc	4.5	U	500	495		ug/L		99	60 - 137	4	20
Silver	2.0	U	50.0	53.2		ug/L		106	75 - 141	5	20

Lab Sample ID: 280-131607-1 MSD
Matrix: Water
Analysis Batch: 482369

Client Sample ID: MW-1B
Prep Type: Total Recoverable
Prep Batch: 481814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	5.2		50.0	56.7		mg/L		103	70 - 203	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 280-481831/1-A
Matrix: Water
Analysis Batch: 482259

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 481831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82	U	10	0.82	ug/L		01/06/20 07:00	01/06/20 16:20	1
Cadmium	0.45	U	5.0	0.45	ug/L		01/06/20 07:00	01/06/20 16:20	1
Cobalt	1.2	U	10	1.2	ug/L		01/06/20 07:00	01/06/20 16:20	1
Chromium	0.66	U	10	0.66	ug/L		01/06/20 07:00	01/06/20 16:20	1
Copper	4.2	U	15	4.2	ug/L		01/06/20 07:00	01/06/20 16:20	1
Nickel	2.6	U	40	2.6	ug/L		01/06/20 07:00	01/06/20 16:20	1
Lead	2.7	U	9.0	2.7	ug/L		01/06/20 07:00	01/06/20 16:20	1
Selenium	6.3	U	20	6.3	ug/L		01/06/20 07:00	01/06/20 16:20	1
Iron	22	U	100	22	ug/L		01/06/20 07:00	01/06/20 16:20	1
Vanadium	1.1	U	10	1.1	ug/L		01/06/20 07:00	01/06/20 16:20	1
Zinc	4.5	U	20	4.5	ug/L		01/06/20 07:00	01/06/20 16:20	1
Silver	2.0	U	10	2.0	ug/L		01/06/20 07:00	01/06/20 16:20	1
Sodium	0.37	U	1.0	0.37	mg/L		01/06/20 07:00	01/06/20 16:20	1

Lab Sample ID: LCS 280-481831/2-A
Matrix: Water
Analysis Batch: 482259

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 481831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	2000		ug/L		100	90 - 112
Cadmium	1000	980		ug/L		98	88 - 111
Cobalt	1000	976		ug/L		98	89 - 111
Chromium	1000	977		ug/L		98	90 - 113
Copper	1000	1010		ug/L		101	86 - 112
Nickel	1000	973		ug/L		97	89 - 111
Lead	1000	973		ug/L		97	89 - 110
Selenium	2000	1870		ug/L		94	85 - 112
Iron	10000	9810		ug/L		98	89 - 115
Vanadium	1000	1020		ug/L		102	90 - 111
Zinc	500	507		ug/L		101	85 - 111
Silver	50.0	53.4		ug/L		107	86 - 115
Sodium	50.0	50.6		mg/L		101	90 - 115

Lab Sample ID: 280-132111-B-1-E MS
Matrix: Water
Analysis Batch: 482259

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 481831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	850		2000	2750		ug/L		95	85 - 120
Cadmium	1.3	I	1000	988		ug/L		99	82 - 119
Cobalt	16		1000	946		ug/L		93	82 - 119
Chromium	14		1000	966		ug/L		95	73 - 135
Copper	4.7	I	1000	987		ug/L		98	82 - 129
Nickel	72		1000	991		ug/L		92	84 - 120
Lead	2.7	U	1000	902		ug/L		90	89 - 121
Selenium	6.3	U	2000	1900		ug/L		95	71 - 140
Iron	1500		10000	10900		ug/L		95	52 - 155
Vanadium	1.1	U	1000	1000		ug/L		100	85 - 120
Zinc	6.1	I	500	484		ug/L		96	60 - 137

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-132111-B-1-E MS
Matrix: Water
Analysis Batch: 482259

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 481831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	2.0	U	50.0	55.8		ug/L		112	75 - 141
Sodium	2100		50.0	2040	J3	mg/L		-134	70 - 203

Lab Sample ID: 280-132111-B-1-F MSD
Matrix: Water
Analysis Batch: 482259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 481831

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	850		2000	2700		ug/L		92	85 - 120	2	20
Cadmium	1.3	I	1000	961		ug/L		96	82 - 119	3	20
Cobalt	16		1000	919		ug/L		90	82 - 119	3	20
Chromium	14		1000	936		ug/L		92	73 - 135	3	20
Copper	4.7	I	1000	962		ug/L		96	82 - 129	3	20
Nickel	72		1000	964		ug/L		89	84 - 120	3	20
Lead	2.7	U	1000	872	J3	ug/L		87	89 - 121	3	20
Selenium	6.3	U	2000	1840		ug/L		92	71 - 140	3	20
Iron	1500		10000	10700		ug/L		92	52 - 155	2	20
Vanadium	1.1	U	1000	973		ug/L		97	85 - 120	3	20
Zinc	6.1	I	500	474		ug/L		94	60 - 137	2	20
Silver	2.0	U	50.0	52.5		ug/L		105	75 - 141	6	20
Sodium	2100		50.0	2070	J3	mg/L		-89	70 - 203	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-481803/1-A
Matrix: Water
Analysis Batch: 482461

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 481803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		12/31/19 08:30	01/07/20 23:15	1
Arsenic	0.33	U	5.0	0.33	ug/L		12/31/19 08:30	01/07/20 23:15	1
Beryllium	0.080	U	1.0	0.080	ug/L		12/31/19 08:30	01/07/20 23:15	1
Thallium	0.089	U	1.0	0.089	ug/L		12/31/19 08:30	01/07/20 23:15	1

Lab Sample ID: LCS 280-481803/2-A
Matrix: Water
Analysis Batch: 482461

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 481803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	40.0	38.7		ug/L		97	85 - 115
Arsenic	40.0	38.9		ug/L		97	85 - 117
Beryllium	40.0	38.7		ug/L		97	80 - 125
Thallium	40.0	38.8		ug/L		97	85 - 118

Lab Sample ID: 280-132086-A-1-C MS
Matrix: Water
Analysis Batch: 482461

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 481803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.40	U	40.0	39.0		ug/L		98	85 - 115

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

Lab Sample ID: 280-132086-A-1-C MS
Matrix: Water
Analysis Batch: 482461

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 481803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.49	I	40.0	39.6		ug/L		98	85 - 117
Beryllium	0.080	U	40.0	40.4		ug/L		101	80 - 125
Thallium	0.089	U	40.0	38.0		ug/L		95	85 - 118

Lab Sample ID: 280-132086-A-1-D MSD
Matrix: Water
Analysis Batch: 482461

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 481803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.40	U	40.0	38.5		ug/L		96	85 - 115	1	20
Arsenic	0.49	I	40.0	39.0		ug/L		96	85 - 117	2	20
Beryllium	0.080	U	40.0	39.3		ug/L		98	80 - 125	3	20
Thallium	0.089	U	40.0	37.7		ug/L		94	85 - 118	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-481677/1-A
Matrix: Water
Analysis Batch: 481881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/27/19 12:51	12/28/19 16:46	1

Lab Sample ID: LCS 280-481677/2-A
Matrix: Water
Analysis Batch: 481881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.24		ug/L		105	84 - 120

Lab Sample ID: 440-257503-F-1-C MS
Matrix: Water
Analysis Batch: 481881

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 481677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.027	U	5.00	5.29		ug/L		106	75 - 125

Lab Sample ID: 440-257503-F-1-D MSD
Matrix: Water
Analysis Batch: 481881

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 481677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.027	U	5.00	5.29		ug/L		106	75 - 125	0	20

Lab Sample ID: MB 280-481912/1-A
Matrix: Water
Analysis Batch: 482045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		12/30/19 16:23	12/31/19 08:45	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-481912/2-A
Matrix: Water
Analysis Batch: 482045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.39		ug/L		108	84 - 120

Lab Sample ID: LCSD 280-481912/3-A
Matrix: Water
Analysis Batch: 482045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	5.00	5.32		ug/L		106	84 - 120	1	15

Lab Sample ID: 280-131589-A-11-N MS
Matrix: Water
Analysis Batch: 482045

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 481912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.027	I	5.00	5.22		ug/L		104	75 - 125

Lab Sample ID: 280-131589-A-11-O MSD
Matrix: Water
Analysis Batch: 482045

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 481912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.027	I	5.00	5.01		ug/L		100	75 - 125	4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-479719/13
Matrix: Water
Analysis Batch: 479719

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.090	U	0.50	0.090	mg/L			12/05/19 17:24	1

Lab Sample ID: LCS 280-479719/11
Matrix: Water
Analysis Batch: 479719

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	4.79		mg/L		96	90 - 110

Lab Sample ID: LCSD 280-479719/12
Matrix: Water
Analysis Batch: 479719

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	4.76		mg/L		95	90 - 110	1	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-479719/10
Matrix: Water
Analysis Batch: 479719

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			0.500	0.482	I	mg/L		96	50 - 150		

Lab Sample ID: 280-131606-D-1 MS
Matrix: Water
Analysis Batch: 479719

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.23	I	5.00	0.668	J3	mg/L		9	80 - 120		

Lab Sample ID: 280-131606-D-1 MSD
Matrix: Water
Analysis Batch: 479719

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.23	I	5.00	0.654	J3	mg/L		8	80 - 120	2	20

Lab Sample ID: 280-131606-D-3 MS
Matrix: Water
Analysis Batch: 479719

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.45	U	25.0	24.2		mg/L		97	80 - 120		

Lab Sample ID: 280-131606-D-3 MSD
Matrix: Water
Analysis Batch: 479719

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.45	U	25.0	24.4		mg/L		98	80 - 120	1	20

Lab Sample ID: 280-131606-D-1 DU
Matrix: Water
Analysis Batch: 479719

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.23	I	0.238	I	mg/L		2	15

Lab Sample ID: 280-131606-D-3 DU
Matrix: Water
Analysis Batch: 479719

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.45	U	0.45	U	mg/L		NC	15

Lab Sample ID: MB 280-479720/13
Matrix: Water
Analysis Batch: 479720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	3.0	1.0	mg/L			12/05/19 17:24	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 280-479720/11
Matrix: Water
Analysis Batch: 479720

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	94.5		mg/L		94	90 - 110

Lab Sample ID: LCSD 280-479720/12
Matrix: Water
Analysis Batch: 479720

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	94.5		mg/L		95	90 - 110	0	10

Lab Sample ID: MRL 280-479720/10
Matrix: Water
Analysis Batch: 479720

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.04		mg/L		81	50 - 150

Lab Sample ID: 280-131606-D-3 MS
Matrix: Water
Analysis Batch: 479720

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	92		250	360		mg/L		107	80 - 120

Lab Sample ID: 280-131606-D-3 MSD
Matrix: Water
Analysis Batch: 479720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	92		250	363		mg/L		108	80 - 120	1	20

Lab Sample ID: 280-131606-D-3 DU
Matrix: Water
Analysis Batch: 479720

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	92		91.9		mg/L		0.2	15

Lab Sample ID: MB 280-479778/6
Matrix: Water
Analysis Batch: 479778

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.090	U	0.50	0.090	mg/L			12/06/19 17:17	1

Lab Sample ID: LCS 280-479778/4
Matrix: Water
Analysis Batch: 479778

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	4.63		mg/L		93	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 280-479778/5
Matrix: Water
Analysis Batch: 479778

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N			5.00	4.66		mg/L		93	90 - 110	1	10

Lab Sample ID: MRL 280-479778/3
Matrix: Water
Analysis Batch: 479778

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			0.500	0.447	I	mg/L		89	50 - 150		

Lab Sample ID: 280-131663-F-1 MS
Matrix: Water
Analysis Batch: 479778

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.35	I	5.00	5.41		mg/L		101	80 - 120		

Lab Sample ID: 280-131663-F-1 MSD
Matrix: Water
Analysis Batch: 479778

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.35	I	5.00	5.50		mg/L		103	80 - 120	2	20

Lab Sample ID: 280-131663-F-1 DU
Matrix: Water
Analysis Batch: 479778

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.35	I		0.342	I	mg/L				0.8	15

Lab Sample ID: MB 280-479779/6
Matrix: Water
Analysis Batch: 479779

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	3.0	1.0	mg/L			12/06/19 17:17	1

Lab Sample ID: LCS 280-479779/4
Matrix: Water
Analysis Batch: 479779

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	94.8		mg/L		95	90 - 110		

Lab Sample ID: LCSD 280-479779/5
Matrix: Water
Analysis Batch: 479779

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	94.7		mg/L		95	90 - 110	0	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 280-479779/3
Matrix: Water
Analysis Batch: 479779

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.31		mg/L		86	50 - 150

Lab Sample ID: 280-131663-F-1 MS
Matrix: Water
Analysis Batch: 479779

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.4		50.0	58.5		mg/L		106	80 - 120

Lab Sample ID: 280-131663-F-1 MS
Matrix: Water
Analysis Batch: 479779

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20	U	1000	1020		mg/L		102	80 - 120

Lab Sample ID: 280-131663-F-1 MSD
Matrix: Water
Analysis Batch: 479779

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.4		50.0	59.4		mg/L		108	80 - 120	1	20

Lab Sample ID: 280-131663-F-1 MSD
Matrix: Water
Analysis Batch: 479779

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	20	U	1000	1010		mg/L		101	80 - 120	1	20

Lab Sample ID: 280-131663-F-1 DU
Matrix: Water
Analysis Batch: 479779

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	5.4		5.41		mg/L		0.2	15

Lab Sample ID: 280-131663-F-1 DU
Matrix: Water
Analysis Batch: 479779

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	20	U	20	U	mg/L		NC	15

Lab Sample ID: MB 280-480127/6
Matrix: Water
Analysis Batch: 480127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.090	U	0.50	0.090	mg/L			12/10/19 13:58	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 280-480127/4
Matrix: Water
Analysis Batch: 480127

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	4.76		mg/L		95	90 - 110

Lab Sample ID: LCSD 280-480127/5
Matrix: Water
Analysis Batch: 480127

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	4.75		mg/L		95	90 - 110	0	10

Lab Sample ID: MRL 280-480127/3
Matrix: Water
Analysis Batch: 480127

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	0.482	I	mg/L		96	50 - 150

Lab Sample ID: 280-131756-3 MS
Matrix: Water
Analysis Batch: 480127

Client Sample ID: MW-6BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.4		5.00	7.37		mg/L		99	80 - 120

Lab Sample ID: 280-131756-3 MSD
Matrix: Water
Analysis Batch: 480127

Client Sample ID: MW-6BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.4		5.00	7.40		mg/L		100	80 - 120	0	20

Lab Sample ID: 280-131756-3 DU
Matrix: Water
Analysis Batch: 480127

Client Sample ID: MW-6BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.4		2.40		mg/L		0.2	15

Lab Sample ID: MB 280-480128/6
Matrix: Water
Analysis Batch: 480128

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	3.0	1.0	mg/L			12/10/19 13:58	1

Lab Sample ID: LCS 280-480128/4
Matrix: Water
Analysis Batch: 480128

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	96.7		mg/L		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 280-480128/5
Matrix: Water
Analysis Batch: 480128

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	96.8		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-480128/3
Matrix: Water
Analysis Batch: 480128

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.10		mg/L		82	50 - 150

Lab Sample ID: 280-131756-3 MS
Matrix: Water
Analysis Batch: 480128

Client Sample ID: MW-6BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	18		50.0	69.4		mg/L		103	80 - 120

Lab Sample ID: 280-131756-3 MSD
Matrix: Water
Analysis Batch: 480128

Client Sample ID: MW-6BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	18		50.0	69.9		mg/L		104	80 - 120	1	20

Lab Sample ID: 280-131756-3 DU
Matrix: Water
Analysis Batch: 480128

Client Sample ID: MW-6BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	18		17.7		mg/L		0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-479917/59
Matrix: Water
Analysis Batch: 479917

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/06/19 13:32	1

Lab Sample ID: LCS 280-479917/57
Matrix: Water
Analysis Batch: 479917

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.50	2.46		mg/L		99	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 280-479917/58
Matrix: Water
Analysis Batch: 479917

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N			2.50	2.52		mg/L		101	90 - 110	2	10

Lab Sample ID: 280-131596-C-1 MS
Matrix: Water
Analysis Batch: 479917

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	0.022	U	1.00	0.955		mg/L		96	90 - 110

Lab Sample ID: 280-131596-C-1 MSD
Matrix: Water
Analysis Batch: 479917

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.022	U	1.00	0.932		mg/L		93	90 - 110	2	10

Lab Sample ID: 280-131640-A-1 MS
Matrix: Water
Analysis Batch: 479917

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	6.7		1.00	7.29	J3	mg/L		61	90 - 110

Lab Sample ID: 280-131640-A-1 MSD
Matrix: Water
Analysis Batch: 479917

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	6.7		1.00	7.23	J3	mg/L		55	90 - 110	1	10

Lab Sample ID: MB 280-480209/20
Matrix: Water
Analysis Batch: 480209

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/10/19 12:01	1

Lab Sample ID: MB 280-480209/59
Matrix: Water
Analysis Batch: 480209

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.0256	I	0.10	0.022	mg/L			12/10/19 13:37	1

Lab Sample ID: LCS 280-480209/18
Matrix: Water
Analysis Batch: 480209

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			2.50	2.50		mg/L		100	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 280-480209/57
Matrix: Water
Analysis Batch: 480209

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			2.50	2.56		mg/L		102	90 - 110		

Lab Sample ID: LCSD 280-480209/19
Matrix: Water
Analysis Batch: 480209

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N			2.50	2.50		mg/L		100	90 - 110	0	10

Lab Sample ID: LCSD 280-480209/58
Matrix: Water
Analysis Batch: 480209

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N			2.50	2.55		mg/L		102	90 - 110	1	10

Lab Sample ID: 280-131657-D-3 MS
Matrix: Water
Analysis Batch: 480209

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.45		1.00	1.40		mg/L		95	90 - 110		

Lab Sample ID: 280-131657-D-3 MSD
Matrix: Water
Analysis Batch: 480209

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.45		1.00	1.43		mg/L		99	90 - 110	2	10

Lab Sample ID: 280-131668-4 MS
Matrix: Water
Analysis Batch: 480209

Client Sample ID: MW-9B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.024	I V	1.00	1.04		mg/L		101	90 - 110		

Lab Sample ID: 280-131668-4 MSD
Matrix: Water
Analysis Batch: 480209

Client Sample ID: MW-9B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.024	I V	1.00	1.03		mg/L		101	90 - 110	0	10

Lab Sample ID: MB 280-481171/20
Matrix: Water
Analysis Batch: 481171

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.022	U	0.10	0.022	mg/L			12/19/19 14:09	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 280-481171/18
Matrix: Water
Analysis Batch: 481171

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			2.50	2.57		mg/L		103	90 - 110		

Lab Sample ID: LCSD 280-481171/19
Matrix: Water
Analysis Batch: 481171

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N			2.50	2.61		mg/L		104	90 - 110	2	10

Lab Sample ID: 280-131702-B-2 MS
Matrix: Water
Analysis Batch: 481171

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.022	U	1.00	0.957		mg/L		96	90 - 110		

Lab Sample ID: 280-131702-B-2 MSD
Matrix: Water
Analysis Batch: 481171

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.022	U	1.00	1.02		mg/L		102	90 - 110	6	10

Lab Sample ID: MB 280-481687/20
Matrix: Water
Analysis Batch: 481687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.0386	I	0.10	0.022	mg/L			12/26/19 15:21	1

Lab Sample ID: LCS 280-481687/18
Matrix: Water
Analysis Batch: 481687

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			2.50	2.56		mg/L		102	90 - 110		

Lab Sample ID: LCSD 280-481687/19
Matrix: Water
Analysis Batch: 481687

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N			2.50	2.54		mg/L		101	90 - 110	1	10

Lab Sample ID: 280-131758-1 MS
Matrix: Water
Analysis Batch: 481687

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.022	U	1.00	1.01		mg/L		101	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 280-131758-1 MSD
Matrix: Water
Analysis Batch: 481687

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.022	U	1.00	1.00		mg/L		100	90 - 110	0	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-479770/1
Matrix: Water
Analysis Batch: 479770

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4.7	U	10	4.7	mg/L			12/06/19 08:06	1

Lab Sample ID: LCS 280-479770/2
Matrix: Water
Analysis Batch: 479770

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	491		mg/L		98	93 - 110

Lab Sample ID: LCSD 280-479770/3
Matrix: Water
Analysis Batch: 479770

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	501	491		mg/L		98	93 - 110	0	20

Lab Sample ID: 280-131609-3 DU
Matrix: Water
Analysis Batch: 479770

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	98		94.0		mg/L		4	10

Lab Sample ID: MB 280-479971/1
Matrix: Water
Analysis Batch: 479971

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4.7	U	10	4.7	mg/L			12/09/19 08:39	1

Lab Sample ID: LCS 280-479971/2
Matrix: Water
Analysis Batch: 479971

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	497		mg/L		99	93 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 280-479971/3
Matrix: Water
Analysis Batch: 479971

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			501	495		mg/L		99	93 - 110	0	20

Lab Sample ID: 280-131664-1 DU
Matrix: Water
Analysis Batch: 479971

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	44			43.0		mg/L				2	10

Lab Sample ID: MB 280-480211/1
Matrix: Water
Analysis Batch: 480211

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4.7	U	10	4.7	mg/L			12/11/19 09:07	1

Lab Sample ID: LCS 280-480211/2
Matrix: Water
Analysis Batch: 480211

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	495		mg/L		99	93 - 110		

Lab Sample ID: LCSD 280-480211/3
Matrix: Water
Analysis Batch: 480211

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			501	497		mg/L		99	93 - 110	0	20

Lab Sample ID: 280-131758-2 DU
Matrix: Water
Analysis Batch: 480211

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			106		mg/L				6	10

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

GC/MS VOA

Analysis Batch: 480548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total/NA	Water	8260B	
280-131609-2	MW-7A	Total/NA	Water	8260B	
280-131609-3	MW-5A	Total/NA	Water	8260B	
280-131609-4	TRIP BLANK	Total/NA	Water	8260B	
MB 280-480548/6	Method Blank	Total/NA	Water	8260B	
LCS 280-480548/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-480548/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 480613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-1	MW-3A	Total/NA	Water	8260B	
280-131664-2	MW-4A	Total/NA	Water	8260B	
280-131664-3	MW-14A	Total/NA	Water	8260B	
280-131664-4	MW-9A	Total/NA	Water	8260B	
280-131664-5	MW-11A	Total/NA	Water	8260B	
280-131664-6	MW-15A	Total/NA	Water	8260B	
280-131664-7	TRIP BLANK 1	Total/NA	Water	8260B	
MB 280-480613/6	Method Blank	Total/NA	Water	8260B	
LCS 280-480613/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-480613/4	Lab Control Sample Dup	Total/NA	Water	8260B	
280-131975-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 481059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131758-2	MW-6AR	Total/NA	Water	8260B	
280-131758-3	MW-2AR	Total/NA	Water	8260B	
280-131758-4	MW-8R	Total/NA	Water	8260B	
MB 280-481059/8	Method Blank	Total/NA	Water	8260B	
LCS 280-481059/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-481059/5	Lab Control Sample Dup	Total/NA	Water	8260B	
280-131931-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
280-131931-F-1 MS	Matrix Spike	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 480280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total/NA	Water	8011	
280-131609-2	MW-7A	Total/NA	Water	8011	
280-131609-3	MW-5A	Total/NA	Water	8011	
280-131609-4	TRIP BLANK	Total/NA	Water	8011	
MB 280-480280/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-480280/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-480280/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 480281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total/NA	Water	8011	480280
280-131609-2	MW-7A	Total/NA	Water	8011	480280
280-131609-3	MW-5A	Total/NA	Water	8011	480280
280-131609-4	TRIP BLANK	Total/NA	Water	8011	480280

GC Semi VOA (Continued)

Analysis Batch: 480281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-480280/1-A	Method Blank	Total/NA	Water	8011	480280
LCS 280-480280/2-A	Lab Control Sample	Total/NA	Water	8011	480280
LCSD 280-480280/3-A	Lab Control Sample Dup	Total/NA	Water	8011	480280

Prep Batch: 480684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-1	MW-3A	Total/NA	Water	8011	
280-131664-2	MW-4A	Total/NA	Water	8011	
280-131664-3	MW-14A	Total/NA	Water	8011	
280-131664-4	MW-9A	Total/NA	Water	8011	
280-131664-5	MW-11A	Total/NA	Water	8011	
280-131664-6	MW-15A	Total/NA	Water	8011	
280-131664-7	TRIP BLANK 1	Total/NA	Water	8011	
MB 280-480684/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-480684/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-480684/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 480685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131758-2	MW-6AR	Total/NA	Water	8011	
280-131758-3	MW-2AR	Total/NA	Water	8011	
280-131758-4	MW-8R	Total/NA	Water	8011	
MB 280-480685/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-480685/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-480685/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 480726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-1	MW-3A	Total/NA	Water	8011	480684
280-131664-2	MW-4A	Total/NA	Water	8011	480684
280-131664-3	MW-14A	Total/NA	Water	8011	480684
280-131664-4	MW-9A	Total/NA	Water	8011	480684
280-131664-5	MW-11A	Total/NA	Water	8011	480684
280-131664-6	MW-15A	Total/NA	Water	8011	480684
280-131664-7	TRIP BLANK 1	Total/NA	Water	8011	480684
280-131758-2	MW-6AR	Total/NA	Water	8011	480685
280-131758-3	MW-2AR	Total/NA	Water	8011	480685
280-131758-4	MW-8R	Total/NA	Water	8011	480685
MB 280-480684/1-A	Method Blank	Total/NA	Water	8011	480684
MB 280-480685/1-A	Method Blank	Total/NA	Water	8011	480685
LCS 280-480684/2-A	Lab Control Sample	Total/NA	Water	8011	480684
LCS 280-480685/2-A	Lab Control Sample	Total/NA	Water	8011	480685
LCSD 280-480684/3-A	Lab Control Sample Dup	Total/NA	Water	8011	480684
LCSD 280-480685/3-A	Lab Control Sample Dup	Total/NA	Water	8011	480685

Metals

Prep Batch: 481677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total/NA	Water	7470A	
280-131609-2	MW-7A	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 481677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-3	MW-5A	Total/NA	Water	7470A	
280-131664-1	MW-3A	Total/NA	Water	7470A	
280-131664-2	MW-4A	Total/NA	Water	7470A	
280-131664-3	MW-14A	Total/NA	Water	7470A	
280-131664-4	MW-9A	Total/NA	Water	7470A	
280-131664-5	MW-11A	Total/NA	Water	7470A	
280-131664-6	MW-15A	Total/NA	Water	7470A	
280-131758-1	Equipment Blank	Total/NA	Water	7470A	
MB 280-481677/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-481677/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-257503-F-1-C MS	Matrix Spike	Total/NA	Water	7470A	
440-257503-F-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 481803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total Recoverable	Water	3005A	
280-131609-2	MW-7A	Total Recoverable	Water	3005A	
280-131609-3	MW-5A	Total Recoverable	Water	3005A	
280-131664-1	MW-3A	Total Recoverable	Water	3005A	
280-131664-2	MW-4A	Total Recoverable	Water	3005A	
280-131664-3	MW-14A	Total Recoverable	Water	3005A	
280-131664-4	MW-9A	Total Recoverable	Water	3005A	
280-131664-5	MW-11A	Total Recoverable	Water	3005A	
280-131664-6	MW-15A	Total Recoverable	Water	3005A	
280-131758-1	Equipment Blank	Total Recoverable	Water	3005A	
280-131758-2	MW-6AR	Total Recoverable	Water	3005A	
280-131758-3	MW-2AR	Total Recoverable	Water	3005A	
280-131758-4	MW-8R	Total Recoverable	Water	3005A	
MB 280-481803/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-481803/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-132086-A-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
280-132086-A-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 481814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-1	MW-1B	Total Recoverable	Water	3005A	
280-131607-2	MW-7B	Total Recoverable	Water	3005A	
280-131607-3	MW-5B	Total Recoverable	Water	3005A	
280-131609-1	MW-1A	Total Recoverable	Water	3005A	
280-131609-2	MW-7A	Total Recoverable	Water	3005A	
280-131609-3	MW-5A	Total Recoverable	Water	3005A	
280-131664-1	MW-3A	Total Recoverable	Water	3005A	
280-131664-2	MW-4A	Total Recoverable	Water	3005A	
280-131664-3	MW-14A	Total Recoverable	Water	3005A	
280-131664-4	MW-9A	Total Recoverable	Water	3005A	
280-131664-5	MW-11A	Total Recoverable	Water	3005A	
280-131664-6	MW-15A	Total Recoverable	Water	3005A	
280-131668-1	MW-3B	Total Recoverable	Water	3005A	
280-131668-2	MW-4B	Total Recoverable	Water	3005A	
280-131668-3	MW-14B	Total Recoverable	Water	3005A	
280-131668-4	MW-9B	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 481814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131668-5	MW-11B	Total Recoverable	Water	3005A	
280-131668-6	MW-15B	Total Recoverable	Water	3005A	
MB 280-481814/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-481814/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-131607-1 MS	MW-1B	Total Recoverable	Water	3005A	
280-131607-1 MSD	MW-1B	Total Recoverable	Water	3005A	

Prep Batch: 481831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131756-1	Equipment Blank	Total Recoverable	Water	3005A	
280-131756-2	MW-2B	Total Recoverable	Water	3005A	
280-131756-3	MW-6BR	Total Recoverable	Water	3005A	
280-131758-1	Equipment Blank	Total Recoverable	Water	3005A	
280-131758-2	MW-6AR	Total Recoverable	Water	3005A	
280-131758-3	MW-2AR	Total Recoverable	Water	3005A	
280-131758-4	MW-8R	Total Recoverable	Water	3005A	
MB 280-481831/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-481831/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-132111-B-1-E MS	Matrix Spike	Total Recoverable	Water	3005A	
280-132111-B-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 481881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total/NA	Water	7470A	481677
280-131609-2	MW-7A	Total/NA	Water	7470A	481677
280-131609-3	MW-5A	Total/NA	Water	7470A	481677
280-131664-1	MW-3A	Total/NA	Water	7470A	481677
280-131664-2	MW-4A	Total/NA	Water	7470A	481677
280-131664-3	MW-14A	Total/NA	Water	7470A	481677
280-131664-4	MW-9A	Total/NA	Water	7470A	481677
280-131664-5	MW-11A	Total/NA	Water	7470A	481677
280-131664-6	MW-15A	Total/NA	Water	7470A	481677
280-131758-1	Equipment Blank	Total/NA	Water	7470A	481677
MB 280-481677/1-A	Method Blank	Total/NA	Water	7470A	481677
LCS 280-481677/2-A	Lab Control Sample	Total/NA	Water	7470A	481677
440-257503-F-1-C MS	Matrix Spike	Total/NA	Water	7470A	481677
440-257503-F-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	481677

Prep Batch: 481912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131758-2	MW-6AR	Total/NA	Water	7470A	
280-131758-3	MW-2AR	Total/NA	Water	7470A	
280-131758-4	MW-8R	Total/NA	Water	7470A	
MB 280-481912/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-481912/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 280-481912/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
280-131589-A-11-N MS	Matrix Spike	Total/NA	Water	7470A	
280-131589-A-11-O MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Metals

Analysis Batch: 482045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131758-2	MW-6AR	Total/NA	Water	7470A	481912
280-131758-3	MW-2AR	Total/NA	Water	7470A	481912
280-131758-4	MW-8R	Total/NA	Water	7470A	481912
MB 280-481912/1-A	Method Blank	Total/NA	Water	7470A	481912
LCS 280-481912/2-A	Lab Control Sample	Total/NA	Water	7470A	481912
LCSD 280-481912/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	481912
280-131589-A-11-N MS	Matrix Spike	Total/NA	Water	7470A	481912
280-131589-A-11-O MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	481912

Analysis Batch: 482259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total Recoverable	Water	6010B	481814
280-131609-2	MW-7A	Total Recoverable	Water	6010B	481814
280-131609-3	MW-5A	Total Recoverable	Water	6010B	481814
280-131664-1	MW-3A	Total Recoverable	Water	6010B	481814
280-131664-2	MW-4A	Total Recoverable	Water	6010B	481814
280-131664-3	MW-14A	Total Recoverable	Water	6010B	481814
280-131664-4	MW-9A	Total Recoverable	Water	6010B	481814
280-131664-5	MW-11A	Total Recoverable	Water	6010B	481814
280-131664-6	MW-15A	Total Recoverable	Water	6010B	481814
280-131668-1	MW-3B	Total Recoverable	Water	6010B	481814
280-131668-2	MW-4B	Total Recoverable	Water	6010B	481814
280-131668-3	MW-14B	Total Recoverable	Water	6010B	481814
280-131668-4	MW-9B	Total Recoverable	Water	6010B	481814
280-131668-5	MW-11B	Total Recoverable	Water	6010B	481814
280-131668-6	MW-15B	Total Recoverable	Water	6010B	481814
280-131756-1	Equipment Blank	Total Recoverable	Water	6010B	481831
280-131756-2	MW-2B	Total Recoverable	Water	6010B	481831
280-131756-3	MW-6BR	Total Recoverable	Water	6010B	481831
280-131758-1	Equipment Blank	Total Recoverable	Water	6010B	481831
280-131758-2	MW-6AR	Total Recoverable	Water	6010B	481831
280-131758-3	MW-2AR	Total Recoverable	Water	6010B	481831
280-131758-4	MW-8R	Total Recoverable	Water	6010B	481831
MB 280-481814/1-A	Method Blank	Total Recoverable	Water	6010B	481814
MB 280-481831/1-A	Method Blank	Total Recoverable	Water	6010B	481831
LCS 280-481814/2-A	Lab Control Sample	Total Recoverable	Water	6010B	481814
LCS 280-481831/2-A	Lab Control Sample	Total Recoverable	Water	6010B	481831
280-131607-1 MS	MW-1B	Total Recoverable	Water	6010B	481814
280-131607-1 MSD	MW-1B	Total Recoverable	Water	6010B	481814
280-132111-B-1-E MS	Matrix Spike	Total Recoverable	Water	6010B	481831
280-132111-B-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	481831

Analysis Batch: 482369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-1	MW-1B	Total Recoverable	Water	6010B	481814
280-131607-2	MW-7B	Total Recoverable	Water	6010B	481814
280-131607-3	MW-5B	Total Recoverable	Water	6010B	481814
280-131609-1	MW-1A	Total Recoverable	Water	6010B	481814
280-131609-2	MW-7A	Total Recoverable	Water	6010B	481814
MB 280-481814/1-A	Method Blank	Total Recoverable	Water	6010B	481814
LCS 280-481814/2-A	Lab Control Sample	Total Recoverable	Water	6010B	481814

Metals (Continued)

Analysis Batch: 482369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-1 MS	MW-1B	Total Recoverable	Water	6010B	481814
280-131607-1 MSD	MW-1B	Total Recoverable	Water	6010B	481814

Analysis Batch: 482461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total Recoverable	Water	6020	481803
280-131609-2	MW-7A	Total Recoverable	Water	6020	481803
280-131609-3	MW-5A	Total Recoverable	Water	6020	481803
280-131664-1	MW-3A	Total Recoverable	Water	6020	481803
280-131664-2	MW-4A	Total Recoverable	Water	6020	481803
280-131664-3	MW-14A	Total Recoverable	Water	6020	481803
280-131664-4	MW-9A	Total Recoverable	Water	6020	481803
280-131664-5	MW-11A	Total Recoverable	Water	6020	481803
280-131664-6	MW-15A	Total Recoverable	Water	6020	481803
280-131758-1	Equipment Blank	Total Recoverable	Water	6020	481803
280-131758-2	MW-6AR	Total Recoverable	Water	6020	481803
280-131758-3	MW-2AR	Total Recoverable	Water	6020	481803
280-131758-4	MW-8R	Total Recoverable	Water	6020	481803
MB 280-481803/1-A	Method Blank	Total Recoverable	Water	6020	481803
LCS 280-481803/2-A	Lab Control Sample	Total Recoverable	Water	6020	481803
280-132086-A-1-C MS	Matrix Spike	Total Recoverable	Water	6020	481803
280-132086-A-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	481803

Analysis Batch: 482932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-4	MW-9A	Total Recoverable	Water	6010B	481814

General Chemistry

Analysis Batch: 479719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-1	MW-1B	Total/NA	Water	300.0	
280-131607-2	MW-7B	Total/NA	Water	300.0	
280-131607-3	MW-5B	Total/NA	Water	300.0	
280-131609-1	MW-1A	Total/NA	Water	300.0	
280-131609-2	MW-7A	Total/NA	Water	300.0	
280-131609-3	MW-5A	Total/NA	Water	300.0	
MB 280-479719/13	Method Blank	Total/NA	Water	300.0	
LCS 280-479719/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-479719/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-479719/10	Lab Control Sample	Total/NA	Water	300.0	
280-131606-D-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-131606-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-131606-D-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-131606-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-131606-D-1 DU	Duplicate	Total/NA	Water	300.0	
280-131606-D-3 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 479720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-1	MW-1B	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 479720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-2	MW-7B	Total/NA	Water	300.0	
280-131607-3	MW-5B	Total/NA	Water	300.0	
280-131609-1	MW-1A	Total/NA	Water	300.0	
280-131609-2	MW-7A	Total/NA	Water	300.0	
280-131609-3	MW-5A	Total/NA	Water	300.0	
MB 280-479720/13	Method Blank	Total/NA	Water	300.0	
LCS 280-479720/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-479720/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-479720/10	Lab Control Sample	Total/NA	Water	300.0	
280-131606-D-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-131606-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-131606-D-3 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 479770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131609-1	MW-1A	Total/NA	Water	SM 2540C	
280-131609-2	MW-7A	Total/NA	Water	SM 2540C	
280-131609-3	MW-5A	Total/NA	Water	SM 2540C	
MB 280-479770/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-479770/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-479770/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-131609-3 DU	MW-5A	Total/NA	Water	SM 2540C	

Analysis Batch: 479778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-1	MW-3A	Total/NA	Water	300.0	
280-131664-2	MW-4A	Total/NA	Water	300.0	
280-131664-3	MW-14A	Total/NA	Water	300.0	
280-131664-4	MW-9A	Total/NA	Water	300.0	
280-131664-5	MW-11A	Total/NA	Water	300.0	
280-131664-6	MW-15A	Total/NA	Water	300.0	
280-131668-1	MW-3B	Total/NA	Water	300.0	
280-131668-2	MW-4B	Total/NA	Water	300.0	
280-131668-3	MW-14B	Total/NA	Water	300.0	
280-131668-4	MW-9B	Total/NA	Water	300.0	
280-131668-5	MW-11B	Total/NA	Water	300.0	
280-131668-6	MW-15B	Total/NA	Water	300.0	
MB 280-479778/6	Method Blank	Total/NA	Water	300.0	
LCS 280-479778/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-479778/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-479778/3	Lab Control Sample	Total/NA	Water	300.0	
280-131663-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-131663-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-131663-F-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 479779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-1	MW-3A	Total/NA	Water	300.0	
280-131664-2	MW-4A	Total/NA	Water	300.0	
280-131664-3	MW-14A	Total/NA	Water	300.0	
280-131664-4	MW-9A	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 479779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-5	MW-11A	Total/NA	Water	300.0	
280-131664-6	MW-15A	Total/NA	Water	300.0	
280-131668-1	MW-3B	Total/NA	Water	300.0	
280-131668-2	MW-4B	Total/NA	Water	300.0	
280-131668-3	MW-14B	Total/NA	Water	300.0	
280-131668-4	MW-9B	Total/NA	Water	300.0	
280-131668-5	MW-11B	Total/NA	Water	300.0	
280-131668-6	MW-15B	Total/NA	Water	300.0	
MB 280-479779/6	Method Blank	Total/NA	Water	300.0	
LCS 280-479779/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-479779/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-479779/3	Lab Control Sample	Total/NA	Water	300.0	
280-131663-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-131663-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-131663-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-131663-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-131663-F-1 DU	Duplicate	Total/NA	Water	300.0	
280-131663-F-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 479917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-1	MW-1B	Total/NA	Water	350.1	
280-131607-2	MW-7B	Total/NA	Water	350.1	
280-131607-3	MW-5B	Total/NA	Water	350.1	
280-131609-1	MW-1A	Total/NA	Water	350.1	
280-131609-2	MW-7A	Total/NA	Water	350.1	
280-131609-3	MW-5A	Total/NA	Water	350.1	
MB 280-479917/59	Method Blank	Total/NA	Water	350.1	
LCS 280-479917/57	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-479917/58	Lab Control Sample Dup	Total/NA	Water	350.1	
280-131596-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
280-131596-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
280-131640-A-1 MS	Matrix Spike	Total/NA	Water	350.1	
280-131640-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 479971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-1	MW-3A	Total/NA	Water	SM 2540C	
280-131664-2	MW-4A	Total/NA	Water	SM 2540C	
280-131664-3	MW-14A	Total/NA	Water	SM 2540C	
280-131664-4	MW-9A	Total/NA	Water	SM 2540C	
280-131664-5	MW-11A	Total/NA	Water	SM 2540C	
280-131664-6	MW-15A	Total/NA	Water	SM 2540C	
MB 280-479971/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-479971/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-479971/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-131664-1 DU	MW-3A	Total/NA	Water	SM 2540C	

Analysis Batch: 480127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131756-1	Equipment Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 480127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131756-2	MW-2B	Total/NA	Water	300.0	
280-131756-3	MW-6BR	Total/NA	Water	300.0	
280-131758-1	Equipment Blank	Total/NA	Water	300.0	
280-131758-2	MW-6AR	Total/NA	Water	300.0	
280-131758-3	MW-2AR	Total/NA	Water	300.0	
280-131758-4	MW-8R	Total/NA	Water	300.0	
MB 280-480127/6	Method Blank	Total/NA	Water	300.0	
LCS 280-480127/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-480127/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-480127/3	Lab Control Sample	Total/NA	Water	300.0	
280-131756-3 MS	MW-6BR	Total/NA	Water	300.0	
280-131756-3 MSD	MW-6BR	Total/NA	Water	300.0	
280-131756-3 DU	MW-6BR	Total/NA	Water	300.0	

Analysis Batch: 480128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131756-1	Equipment Blank	Total/NA	Water	300.0	
280-131756-2	MW-2B	Total/NA	Water	300.0	
280-131756-3	MW-6BR	Total/NA	Water	300.0	
280-131758-1	Equipment Blank	Total/NA	Water	300.0	
280-131758-2	MW-6AR	Total/NA	Water	300.0	
280-131758-3	MW-2AR	Total/NA	Water	300.0	
280-131758-4	MW-8R	Total/NA	Water	300.0	
MB 280-480128/6	Method Blank	Total/NA	Water	300.0	
LCS 280-480128/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-480128/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-480128/3	Lab Control Sample	Total/NA	Water	300.0	
280-131756-3 MS	MW-6BR	Total/NA	Water	300.0	
280-131756-3 MSD	MW-6BR	Total/NA	Water	300.0	
280-131756-3 DU	MW-6BR	Total/NA	Water	300.0	

Analysis Batch: 480209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-1	MW-3A	Total/NA	Water	350.1	
280-131664-2	MW-4A	Total/NA	Water	350.1	
280-131664-3	MW-14A	Total/NA	Water	350.1	
280-131664-4	MW-9A	Total/NA	Water	350.1	
280-131664-5	MW-11A	Total/NA	Water	350.1	
280-131664-6	MW-15A	Total/NA	Water	350.1	
280-131668-1	MW-3B	Total/NA	Water	350.1	
280-131668-2	MW-4B	Total/NA	Water	350.1	
280-131668-3	MW-14B	Total/NA	Water	350.1	
280-131668-6	MW-15B	Total/NA	Water	350.1	
MB 280-480209/20	Method Blank	Total/NA	Water	350.1	
MB 280-480209/59	Method Blank	Total/NA	Water	350.1	
LCS 280-480209/18	Lab Control Sample	Total/NA	Water	350.1	
LCS 280-480209/57	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-480209/19	Lab Control Sample Dup	Total/NA	Water	350.1	
LCSD 280-480209/58	Lab Control Sample Dup	Total/NA	Water	350.1	
280-131657-D-3 MS	Matrix Spike	Total/NA	Water	350.1	
280-131657-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 480209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131668-4 MS	MW-9B	Total/NA	Water	350.1	
280-131668-4 MSD	MW-9B	Total/NA	Water	350.1	

Analysis Batch: 480211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131758-1	Equipment Blank	Total/NA	Water	SM 2540C	
280-131758-2	MW-6AR	Total/NA	Water	SM 2540C	
280-131758-3	MW-2AR	Total/NA	Water	SM 2540C	
280-131758-4	MW-8R	Total/NA	Water	SM 2540C	
MB 280-480211/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-480211/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-480211/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-131758-2 DU	MW-6AR	Total/NA	Water	SM 2540C	

Analysis Batch: 481171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131668-4	MW-9B	Total/NA	Water	350.1	
280-131668-5	MW-11B	Total/NA	Water	350.1	
MB 280-481171/20	Method Blank	Total/NA	Water	350.1	
LCS 280-481171/18	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-481171/19	Lab Control Sample Dup	Total/NA	Water	350.1	
280-131702-B-2 MS	Matrix Spike	Total/NA	Water	350.1	
280-131702-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 481687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131756-1	Equipment Blank	Total/NA	Water	350.1	
280-131756-2	MW-2B	Total/NA	Water	350.1	
280-131756-3	MW-6BR	Total/NA	Water	350.1	
280-131758-1	Equipment Blank	Total/NA	Water	350.1	
280-131758-2	MW-6AR	Total/NA	Water	350.1	
280-131758-3	MW-2AR	Total/NA	Water	350.1	
280-131758-4	MW-8R	Total/NA	Water	350.1	
MB 280-481687/20	Method Blank	Total/NA	Water	350.1	
LCS 280-481687/18	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-481687/19	Lab Control Sample Dup	Total/NA	Water	350.1	
280-131758-1 MS	Equipment Blank	Total/NA	Water	350.1	
280-131758-1 MSD	Equipment Blank	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 481044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131607-1	MW-1B	Total/NA	Water	Field Sampling	
280-131607-2	MW-7B	Total/NA	Water	Field Sampling	
280-131607-3	MW-5B	Total/NA	Water	Field Sampling	
280-131609-1	MW-1A	Total/NA	Water	Field Sampling	
280-131609-2	MW-7A	Total/NA	Water	Field Sampling	
280-131609-3	MW-5A	Total/NA	Water	Field Sampling	
280-131664-1	MW-3A	Total/NA	Water	Field Sampling	
280-131664-2	MW-4A	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 481044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-131664-3	MW-14A	Total/NA	Water	Field Sampling	
280-131664-4	MW-9A	Total/NA	Water	Field Sampling	
280-131664-5	MW-11A	Total/NA	Water	Field Sampling	
280-131664-6	MW-15A	Total/NA	Water	Field Sampling	
280-131668-1	MW-3B	Total/NA	Water	Field Sampling	
280-131668-2	MW-4B	Total/NA	Water	Field Sampling	
280-131668-3	MW-14B	Total/NA	Water	Field Sampling	
280-131668-4	MW-9B	Total/NA	Water	Field Sampling	
280-131668-5	MW-11B	Total/NA	Water	Field Sampling	
280-131668-6	MW-15B	Total/NA	Water	Field Sampling	
280-131756-1	Equipment Blank	Total/NA	Water	Field Sampling	
280-131756-2	MW-2B	Total/NA	Water	Field Sampling	
280-131756-3	MW-6BR	Total/NA	Water	Field Sampling	
280-131758-2	MW-6AR	Total/NA	Water	Field Sampling	
280-131758-3	MW-2AR	Total/NA	Water	Field Sampling	
280-131758-4	MW-8R	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-1B
Date Collected: 12/04/19 10:22
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482369	01/07/20 18:33	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479719	12/05/19 23:42	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479720	12/05/19 23:42	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	479917	12/06/19 14:04	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/04/19 08:22	K1I	TAL DEN

Client Sample ID: MW-7B
Date Collected: 12/04/19 11:37
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482369	01/07/20 18:43	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479719	12/05/19 23:58	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479720	12/05/19 23:58	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	479917	12/06/19 14:06	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/04/19 09:37	K1I	TAL DEN

Client Sample ID: MW-5B
Date Collected: 12/04/19 12:51
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131607-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482369	01/07/20 18:56	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479719	12/06/19 00:15	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479720	12/06/19 00:15	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	479917	12/06/19 14:08	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/04/19 10:51	K1I	TAL DEN

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480548	12/14/19 17:35	JZ	TAL DEN
Total/NA	Prep	8011			34.9 mL	35 mL	480280	12/11/19 18:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480281	12/12/19 00:03	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:14	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482369	01/07/20 18:58	LMT	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-1A
Date Collected: 12/04/19 09:48
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:06	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:26	MRJ	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	479719	12/05/19 19:52	JAP	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	479720	12/05/19 19:52	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	479917	12/06/19 14:28	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479770	12/06/19 08:06	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/04/19 07:48	K1I	TAL DEN

Client Sample ID: MW-7A
Date Collected: 12/04/19 11:02
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480548	12/14/19 17:56	JZ	TAL DEN
Total/NA	Prep	8011			34.9 mL	35 mL	480280	12/11/19 18:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480281	12/12/19 00:25	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:17	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482369	01/07/20 19:01	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:10	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:28	MRJ	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	479719	12/05/19 20:25	JAP	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	479720	12/05/19 20:25	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	479917	12/06/19 14:30	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479770	12/06/19 08:06	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/04/19 09:02	K1I	TAL DEN

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480548	12/14/19 18:17	JZ	TAL DEN
Total/NA	Prep	8011			35 mL	35 mL	480280	12/11/19 18:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480281	12/12/19 00:47	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:29	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:13	LMT	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-5A
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:31	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479719	12/06/19 00:31	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479720	12/06/19 00:31	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	479917	12/06/19 14:32	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479770	12/06/19 08:06	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/04/19 10:17	K1I	TAL DEN

Client Sample ID: TRIP BLANK
Date Collected: 12/04/19 12:17
Date Received: 12/05/19 09:20

Lab Sample ID: 280-131609-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480548	12/14/19 18:38	JZ	TAL DEN
Total/NA	Prep	8011			34.9 mL	35 mL	480280	12/11/19 18:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480281	12/12/19 01:08	RDP	TAL DEN

Client Sample ID: MW-3A
Date Collected: 12/05/19 07:00
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480613	12/16/19 03:43	GO	TAL DEN
Total/NA	Prep	8011			35.1 mL	35 mL	480684	12/16/19 14:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/16/19 20:12	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:32	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:17	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:37	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/06/19 21:11	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/06/19 21:11	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 13:09	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479971	12/09/19 08:39	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 05:00	K1I	TAL DEN

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480613	12/16/19 04:04	GO	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-4A
Date Collected: 12/05/19 08:16
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	480684	12/16/19 14:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/16/19 20:34	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:34	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:28	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:39	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 00:23	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 00:23	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 13:11	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479971	12/09/19 08:39	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 06:16	K1I	TAL DEN

Client Sample ID: MW-14A
Date Collected: 12/05/19 09:39
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480613	12/16/19 04:25	GO	TAL DEN
Total/NA	Prep	8011			35 mL	35 mL	480684	12/16/19 14:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/16/19 20:55	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:37	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:32	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:42	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 00:41	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 00:41	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 13:25	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479971	12/09/19 08:39	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 07:39	K1I	TAL DEN

Client Sample ID: MW-9A
Date Collected: 12/05/19 11:09
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480613	12/16/19 04:46	GO	TAL DEN
Total/NA	Prep	8011			35.2 mL	35 mL	480684	12/16/19 14:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/16/19 21:16	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:40	LMT	TAL DEN

Client Sample ID: MW-9A

Lab Sample ID: 280-131664-4

Date Collected: 12/05/19 11:09

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482932	01/13/20 16:50	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:35	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:44	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 00:58	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 00:58	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 13:27	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479971	12/09/19 08:39	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 09:09	K1I	TAL DEN

Client Sample ID: MW-11A

Lab Sample ID: 280-131664-5

Date Collected: 12/05/19 12:13

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480613	12/16/19 05:07	GO	TAL DEN
Total/NA	Prep	8011			35.1 mL	35 mL	480684	12/16/19 14:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/16/19 21:38	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:42	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:39	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:46	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 01:16	JAP	TAL DEN
Total/NA	Analysis	300.0		2	5 mL	5 mL	479778	12/07/19 01:33	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 13:29	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479971	12/09/19 08:39	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 10:13	K1I	TAL DEN

Client Sample ID: MW-15A

Lab Sample ID: 280-131664-6

Date Collected: 12/05/19 13:30

Matrix: Water

Date Received: 12/06/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480613	12/16/19 05:28	GO	TAL DEN
Total/NA	Prep	8011			34.5 mL	35 mL	480684	12/16/19 14:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/16/19 21:59	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:45	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:43	LMT	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-15A
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:48	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 01:51	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 01:51	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 13:31	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	479971	12/09/19 08:39	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 11:30	K1I	TAL DEN

Client Sample ID: TRIP BLANK 1
Date Collected: 12/05/19 13:30
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131664-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	480613	12/16/19 00:54	GO	TAL DEN
Total/NA	Prep	8011			35.2 mL	35 mL	480684	12/16/19 14:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/16/19 22:21	RDP	TAL DEN

Client Sample ID: MW-3B
Date Collected: 12/05/19 07:35
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 18:57	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 02:43	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 02:43	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 14:09	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 05:35	K1I	TAL DEN

Client Sample ID: MW-4B
Date Collected: 12/05/19 08:50
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 19:00	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 03:01	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 03:01	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 14:11	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 06:50	K1I	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-14B
Date Collected: 12/05/19 10:23
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 19:03	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 03:18	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 03:18	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 14:13	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 08:23	K1I	TAL DEN

Client Sample ID: MW-9B
Date Collected: 12/05/19 11:43
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 19:05	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 03:36	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 03:36	JAP	TAL DEN
Total/NA	Analysis	350.1		1			481171	12/19/19 14:27	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 09:43	K1I	TAL DEN

Client Sample ID: MW-11B
Date Collected: 12/05/19 12:44
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 19:08	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 03:53	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 03:53	JAP	TAL DEN
Total/NA	Analysis	350.1		1			481171	12/19/19 14:29	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 10:44	K1I	TAL DEN

Client Sample ID: MW-15B
Date Collected: 12/05/19 14:01
Date Received: 12/06/19 09:30

Lab Sample ID: 280-131668-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481814	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 19:10	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479778	12/07/19 04:11	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	479779	12/07/19 04:11	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	480209	12/10/19 14:35	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/05/19 12:01	K1I	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481831	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 16:25	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480127	12/10/19 17:44	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480128	12/10/19 17:44	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	481687	12/26/19 15:37	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/09/19 08:15	K1I	TAL DEN

Client Sample ID: MW-2B
Date Collected: 12/09/19 08:20
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481831	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 16:28	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480127	12/10/19 18:00	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480128	12/10/19 18:00	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	481687	12/26/19 15:39	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/09/19 06:20	K1I	TAL DEN

Client Sample ID: MW-6BR
Date Collected: 12/09/19 09:43
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131756-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481831	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 16:30	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480127	12/10/19 18:17	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480128	12/10/19 18:17	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	481687	12/26/19 15:41	BWH	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/09/19 07:43	K1I	TAL DEN

Client Sample ID: Equipment Blank
Date Collected: 12/09/19 10:15
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	481831	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 16:43	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:46	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481677	12/27/19 12:51	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			481881	12/28/19 17:51	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480127	12/10/19 20:12	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480128	12/10/19 20:12	JAP	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: Equipment Blank

Lab Sample ID: 280-131758-1

Date Collected: 12/09/19 10:15

Matrix: Water

Date Received: 12/10/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	10 mL	10 mL	481687	12/26/19 15:23	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	480211	12/11/19 09:07	ECL	TAL DEN

Client Sample ID: MW-6AR

Lab Sample ID: 280-131758-2

Date Collected: 12/09/19 09:11

Matrix: Water

Date Received: 12/10/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	481059	12/19/19 21:29	JZ	TAL DEN
Total/NA	Prep	8011			35 mL	35 mL	480685	12/16/19 15:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/17/19 05:31	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481831	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 16:46	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:50	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481912	12/30/19 16:23	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			482045	12/31/19 09:12	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480127	12/10/19 20:28	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480128	12/10/19 20:28	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	481687	12/26/19 15:29	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	480211	12/11/19 09:07	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/09/19 07:11	K1I	TAL DEN

Client Sample ID: MW-2AR

Lab Sample ID: 280-131758-3

Date Collected: 12/09/19 07:42

Matrix: Water

Date Received: 12/10/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	481059	12/19/19 21:50	JZ	TAL DEN
Total/NA	Prep	8011			34.9 mL	35 mL	480685	12/16/19 15:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/17/19 05:52	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481831	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 16:48	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:54	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481912	12/30/19 16:23	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			482045	12/31/19 09:15	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480127	12/10/19 21:01	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480128	12/10/19 21:01	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	481687	12/26/19 15:31	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	480211	12/11/19 09:07	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/09/19 05:42	K1I	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-131607-1

Client Sample ID: MW-8R

Date Collected: 12/09/19 07:00
Date Received: 12/10/19 09:55

Lab Sample ID: 280-131758-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	481059	12/19/19 22:12	JZ	TAL DEN
Total/NA	Prep	8011			35.3 mL	35 mL	480685	12/16/19 15:00	RDP	TAL DEN
Total/NA	Analysis	8011		1			480726	12/17/19 06:14	RDP	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481831	01/06/20 07:00	MRJ	TAL DEN
Total Recoverable	Analysis	6010B		1			482259	01/06/20 16:51	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	481803	12/31/19 08:30	NK	TAL DEN
Total Recoverable	Analysis	6020		1			482461	01/08/20 00:57	LMT	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	481912	12/30/19 16:23	MRJ	TAL DEN
Total/NA	Analysis	7470A		1			482045	12/31/19 09:17	MRJ	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480127	12/10/19 21:17	JAP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	480128	12/10/19 21:17	JAP	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	481687	12/26/19 15:33	BWH	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	480211	12/11/19 09:07	ECL	TAL DEN
Total/NA	Analysis	Field Sampling		1			481044	12/09/19 05:00	K1I	TAL DEN

Laboratory References:

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

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

eurofins
Environment Testing
TestAmerica

Chain of Custody Record

Client Information	Sampler: DANNY ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-59404-20781.1
Client Contact: Elizabeth Foeller	Phone: 225-907-4060	E-Mail: danielle.harrington@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 242 W Keene Road	Due Date Requested:			
City: Apopka	TAT Requested (days):			
State, Zip: FL, 32703				
Phone:	PO #: Purchase Order Requested			
Email: efoeller@wm.com	WO #:			
Project Name: FL26|Vista/FL26 Event: Annual Intermediate Wells - Dec	Project #: 28002729			
Site: Florida	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	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)	IC Nitrate and Chloride (250ml PE)	6010B - Sodium (500ml PE)	350.1 - Ammonia as N (500ml AG)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S		
MW-01B	12-4	1022	G	W	N		1	1	1		Login: Shortholds include Nitrate by IC
MW-07B	12-4	1137	G	W	N		1	1	1		
MW-05B	12-4	1251	G	W	N		1	1	1		

280-131607 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12-4-19 / 1700	PRO-TECH		12-5-19 0970	TA Den
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4, 3.4°C +0.9 IR 9 JL 12-5-19

FORM FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-01B | SAMPLE ID: | DATE: 12-4-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 87.78 feet to 97.78 feet | STATIC DEPTH TO WATER (feet): 50.72 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 109.53 | GROUNDWATER ELEVATION (ft NGVD): 58.81

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0.3 gallons + (0.006 gallons/foot X 96.78 feet) + 0.05 gallons = 0.93 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 91.78 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 91.78 | PURGING INITIATED AT: 1007 | PURGING ENDED AT: 1022 | TOTAL VOLUME PURGED (gallons): 6.63

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1012	3.33	3.33	0.33	52.81	7.67	22.4	210	0.3	3.38	144		
1015	0.99	4.32	0.33	52.84	7.68	22.4	212	0.2	4.88	144		
1018	0.99	5.31	0.33	52.85	7.69	22.5	212	0.2	3.92	141		
1021	0.99	6.30	0.33	52.85	7.69	22.5	211	0.2	3.90	139	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DANNY ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1022 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 91.78 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250ml	-	-	-	NITRATE	0.33	BP
	1	PE	500ml	HNO3	-	-	METALS	"	"
	1	AG	500ml	H2SO4	-	-	NH3	"	"

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-7B	SAMPLE ID:		DATE: 12-4-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4 3/8	WELL SCREEN INTERVAL DEPTH: 81.7 feet to 91.7 feet	STATIC DEPTH TO WATER (feet): 51.70	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 109.13			GROUNDWATER ELEVATION (ft NGVD): 57.43	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.0026 gallons/foot X 91.70 feet) + 0.05 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 86.70	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 86.70	PURGING INITIATED AT: 1117	PURGING ENDED AT: 1137	TOTAL VOLUME PURGED (gallons): 3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (ppm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1129	1.80	1.80	0.18	52.23	7.61	22.4	139	0.2	4.26	87		
1130	0.54	2.34	0.18	52.23	7.62	22.3	139	0.2	3.38	85		
1133	0.54	2.88	0.18	52.23	7.63	22.2	139	0.2	4.20	89		
1136	0.54	3.42	0.18	52.23	7.63	22.2	139	0.1	3.88	83	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.08; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1137	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 87.60	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	—	—	—	NITRATE	0.1B	BP
	1	PE	500 ml	HNO3	—	—	METALS		BP
	1	AG	500 ml	H2SO4	—	—	NH3		BP

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-05B | SAMPLE ID: | DATE: 12-4-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 59.35 feet to 69.35 feet | STATIC DEPTH TO WATER (feet): 25.60 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 81.27 | GROUNDWATER ELEVATION (ft NGVD): 55.67

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.0006 gallons/foot X 69.35 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.35 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.35 | PURGING INITIATED AT: 1231 | PURGING ENDED AT: 1251 | TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1241	2.70	2.70	0.27	26.54	7.81	24.6	199	0.2	3.68	112		
1244	0.81	3.51	0.29	26.54	7.82	24.5	199	0.1	3.58	109		
1247	0.81	4.32	0.27	26.54	7.84	24.6	199	0.2	3.32	107		
1250	0.81	5.13	0.29	26.55	7.85	24.6	199	0.1	3.28	107	None	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1251 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 64.35 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm | FILTER SIZE: | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	-	-	-	NITRATE	0.23	BP
	1	PE	500 ml	HNO3	-	-	METALS		BP
	1	AG	500 ml	H2SO4	-	-	NH3		BP

REMARKS:
SHEEN: No

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA FL | DATE: 12.4.19

WELL NO: MW-01A | SAMPLE ID:

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 59.71 feet to 69.71 feet | STATIC DEPTH TO WATER (feet): 40.93 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 109.47 | GROUNDWATER ELEVATION (ft NGVD): 68.54

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 69.71 feet) + 0.05 gallons = 0.77 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.71 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.71 | PURGING INITIATED AT: 0928 | PURGING ENDED AT: 0948 | TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0938	2.70	2.70	0.29	44.93	7.41	22.7	400	0.4	4.32	167		
0941	0.81	3.51	0.27	44.94	7.40	22.8	397	0.5	4.11	164		
0944	0.81	4.32	0.27	44.94	7.40	22.7	397	0.5	4.20	160		
0947	0.81	5.13	0.27	44.94	7.40	22.6	396	0.5	3.56	158	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DANNY ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0948 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 64.71 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (ml per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40 ml	HCl	~	NA	VOA	0.27	BP
	3	CG	40ml	NaThio	~		EDB/DBCP		
	1	P	1L	~	~		G-CHEM		
	1	P	500 ml	HNO3	~		METALS		
	1	AG	500ml	H2SO4	~		NH3		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-07A	SAMPLE ID:		DATE: 12-4-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4 3/16	WELL SCREEN INTERVAL DEPTH: 51.03 feet to 71.03 feet	STATIC DEPTH TO WATER (feet): 38.63	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 109.26		GROUNDWATER ELEVATION (ft NGVD): 70.63		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (71.03 feet - 38.63 feet) X 0.163 gallons/foot = 5.28 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= ~~0.3~~ 0.2 gallons + (~~0.163~~ 0.0026 gallons/foot X 71.03 feet) + 0.05 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.03	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.03	PURGING INITIATED AT: 1032	PURGING ENDED AT: 1102		TOTAL VOLUME PURGED (gallons): 8.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1053	5.46	5.46	0.26	40.24	7.20	22.8	282	1.1	4.49	129		
1055	0.78	6.24	0.26	40.25	7.18	22.8	283	1.1	3.16	128		
1058	0.78	7.02	0.26	40.25	7.17	22.7	283	1.1	3.18	128		
1101	0.78	7.80	0.26	40.25	7.17	22.7	283	1.1	3.79	128	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1102	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 66.03	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (ml per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	—	—	—	NITRATE	0.26	BP
	1	PE	500 ml	HNO3	—	—	METALS		BP
	1	AG	500 ml	H2SO4	—	—	NH3		BP
	3	LG	40 ml	HCl	—	—	VOA		BP
	3	LG	40 ml	NaHSO4	—	—	RSK		BP

REMARKS:
SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-05A | SAMPLE ID: | DATE: 12-4-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH 33.08 feet to 43.08 feet | STATIC DEPTH TO WATER (feet): 24.42 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 81.86 | GROUNDWATER ELEVATION (ft NGVD): 57.44

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (43.08 feet - 24.42 feet) X 0.163 gallons/foot = 3.04 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 43.08 feet) + 0.05 gallons = 0.36 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.08 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.08 | PURGING INITIATED AT: 1151 | PURGING ENDED AT: 1217 | TOTAL VOLUME PURGED (gallons): 6.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1207	4.20	4.20	0.2	27.04	5.63	25.0	124	3.6	3.52	158		
1210	0.60	4.80	0.2	27.04	5.59	25.1	125	3.6	2.85	159		
1213	0.60	5.40	0.2	27.05	5.61	25.1	128	3.6	3.34	159		
1216	0.60	6.00	0.2	27.05	5.64	25.1	130	3.6	3.37	160	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1217 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 38.08 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm | FILTER SIZE: | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	NM	VOA	0.2	BP
	3	G	40ml	Nathio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-03B	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 80.3 feet to 85.3 feet	STATIC DEPTH TO WATER (feet): 37.08	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 93.06			GROUNDWATER ELEVATION (ft NGVD): 55.98	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 85.30 feet) + 0.05 gallons = 0.86 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 82.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 82.80	PURGING INITIATED AT: 0715	PURGING ENDED AT: 0735	TOTAL VOLUME PURGED (gallons): 5.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0725	3.00	3.00	0.30	37.94	7.05	22.7	209	2.1	4.10	218		
0728	0.90	3.90	0.30	37.95	7.05	22.7	209	2.0	3.97	217		
0731	0.90	4.80	0.30	37.95	7.06	22.7	210	2.1	4.00	216		
0734	0.90	5.70	0.30	37.95	7.08	22.7	211	2.0	3.53	215	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0735	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 82.80	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	—	—	—	NITRATE	0.30	BP
	1	PE	500 ml	HNO3	—	—	METALS	/	BP
	1	AG	500 ml	H2SO4	—	—	NH3	/	BP

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-04B | SAMPLE ID: | DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 63 feet to 73 feet | STATIC DEPTH TO WATER (feet): 26.19 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 83.18 | GROUNDWATER ELEVATION (ft NGVD): 56.99

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 73.00 feet) + 0.05 gallons = 0.79 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 68.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 68.00 | PURGING INITIATED AT: 0830 | PURGING ENDED AT: 0850 | TOTAL VOLUME PURGED (gallons): 5.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0840	2.80	2.80	0.28	27.91	5.40	24.0	48	0.6	4.12	237		
0843	0.84	3.64	0.28	27.91	5.40	24.1	48	0.7	2.63	237		
0846	0.84	4.48	0.28	27.91	5.41	24.2	48	0.7	2.38	237		
0849	0.84	5.32	0.28	27.91	5.41	24.2	48	0.7	3.13	237	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0850 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 68.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	—	—	—	NITRATE	0.28	BP
	1	PE	500 ml	HNO3	—	—	METALS		BP
	1	AG	500 ml	H2SO4	—	—	NH3		BP

REMARKS:
SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-14B	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 90.6 feet to 100.6 feet	STATIC DEPTH TO WATER (feet): 43.93		PURGE PUMP TYPE OR BAILER: ESP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 100.60 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95.60	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95.60	PURGING INITIATED AT: 1001	PURGING ENDED AT: 1023		TOTAL VOLUME PURGED (gallons): 4.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1013	2.40	2.40	0.20	44.05	7.78	23.9	140	0.2	5.66	171		
1016	0.60	3.00	0.20	44.05	7.75	23.8	138	0.2	4.18	174		
1019	0.60	3.60	0.20	44.05	7.74	23.8	136	0.2	3.93	174		
1022	0.60	4.20	0.20	44.05	7.74	23.8	136	0.2	3.77	175	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1023	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 95.60	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL) per minute	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	NM	VOA		ESP
	5	G	40 ml	NaHSO4	–		SOIL		
	1	P	1000 ml	–	–		G-CHEM	0.20	
	1	P	500 ml	HNO3	–		METALS	0.20	
	1	AG	500 ml	H2SO4	–		NH3	0.20	
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: ND

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-9B	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 79.3 feet to 89.3 feet	STATIC DEPTH TO WATER (feet): 43.14	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 89.30 feet) + 0.05 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 84.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 84.30	PURGING INITIATED AT: 1123	PURGING ENDED AT: 1143		TOTAL VOLUME PURGED (gallons): 4.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1133	2.00	2.00	0.20	43.36	7.75	23.3	338	0.1	5.49	154		
1136	0.60	2.60	0.20	43.36	7.75	23.3	338	0.2	5.24	153		
1139	0.60	3.20	0.20	43.36	7.75	23.4	339	0.2	5.98	153		
1143	0.60	3.80	0.20	43.36	7.75	23.4	339	0.2	5.82	151	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1143		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 84.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl		<2	VOA		BP
	3	G	40 ml	NaOH/ZnAc		>9	SOM		
	1	P	1000 ml	–	–		G-CHEM	0.20	
	1	P	500 ml	HNO3	–		METALS	0.20	
	1	AG	500 ml	H2SO4	–		NH3	0.20	
	4	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ±0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-11B	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 78.8 feet to 88.8 feet	STATIC DEPTH TO WATER (feet): 39.18	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 88.80 feet) + 0.05 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 83.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 83.80	PURGING INITIATED AT: 1224	PURGING ENDED AT: 1244		TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1234	1.80	1.80	0.18	47.38	7.85	24.0	259	0.2	5.40	-160		
1237	0.54	2.34	0.18	47.38	7.86	23.9	259	0.2	6.24	-164		
1240	0.54	2.88	0.18	47.38	7.86	23.9	258	0.2	6.44	-165		
1243	0.54	3.42	0.18	47.38	7.87	23.8	257	0.2	6.93	-168	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1244	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 83.80	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	-	<2	VOA		BP
	3	G	40 ml	NaHSO4	-	<2	8011		
	1	P	1000 ml	-	-		G-CHEM	0.18	
	1	P	500 ml	HNO3	-	<2	METALS	0.18	
	1	AG	500 ml	H2SO4	-	<2	NH3	0.18	
	1	P	1000 ml	HNO3	-	<2	GROSS ALPHA		

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ±0.2 mg/L or ±10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ±5 NTU or ±10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-15B	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 83.48 feet to 93.48 feet	STATIC DEPTH TO WATER (feet): 48.52		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 93.48 feet) + 0.05 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 88.48	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 88.48	PURGING INITIATED AT: 1341	PURGING ENDED AT: 1401		TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1351	1.80	1.80	0.18	52.91	6.72	23.5	130	2.1	9.02	146		
1354	0.54	2.34	0.18	52.91	6.70	23.6	133	2.2	8.17	146		
1357	0.54	2.88	0.18	52.92	6.70	23.6	135	2.2	8.66	146		
1400	0.54	3.42	0.18	52.92	6.73	23.5	138	2.2	8.12	146	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1401		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 88.48	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	–	NM	VOA		BP
	3	G	40ml	NaHSO4	–		8011		
	1	P	1000 ml	–	–		G-CHEM	0.18	
	1	P	500 ml	HNO3	–		METALS	0.18	
	1	AG	500 ml	H2SO4	–		NH3	0.18	
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-2B | SAMPLE ID: | DATE: 12-9-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 67.05 feet to 77.05 feet | STATIC DEPTH TO WATER (feet): 32.94 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 88.46 | GROUNDWATER ELEVATION (ft NGVD): 55.52

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 77.05 feet) + 0.05 gallons = 0.81 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 72.05 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 72.05 | PURGING INITIATED AT: 0800 | PURGING ENDED AT: 0820 | TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0810	2.80	2.80	0.28	34.61	7.95	25.1	149	0.3	4.17	161		
0813	0.84	3.64	0.28	34.61	7.97	25.1	148	0.2	4.82	161		
0816	0.84	4.48	0.28	34.61	7.98	25.2	149	0.2	4.94	160		
0819	0.84	5.32	0.28	34.62	7.99	25.1	149	0.2	3.22	160	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0820 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 72.05 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	—	—	—	NITRATE	0.28	BP
	1	PE	500 ml	HNO3	—	—	METALS	1	BP
	1	AG	500 ml	H2SO4	—	—	NH3	1	BP

REMARKS:
SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-6BR	SAMPLE ID:		DATE: 12-9-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 81.48 feet to 91.48 feet	STATIC DEPTH TO WATER (feet): 47.69	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 103.99			GROUNDWATER ELEVATION (ft NGVD): 56.30	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 92.48 feet) + 0.05 gallons = 0.90 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 87.48	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 87.48	PURGING INITIATED AT: 0923	PURGING ENDED AT: 0943	TOTAL VOLUME PURGED (gallons): 6.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0933	3.10	3.10	0.31	48.44	7.92	24.4	266	1.1	3.46	196		
0936	0.93	4.03	0.31	48.45	7.92	24.4	267	1.2	3.25	195		
0939	0.93	4.96	0.31	48.45	7.92	24.3	268	1.2	3.17	194		
0942	0.93	5.89	0.31	48.45	7.92	24.4	269	1.2	3.34	194	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0943	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 87.48	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (ml. per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	—	—	—	NITRATE	0.31	BP
	1	PE	500 ml	HNO3	—	—	METALS		BP
	1	AG	500 ml	H2SO4	—	—	NH3		BP

REMARKS:
SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL | DATE: 12-9-19

WELL NO: ~~PW-05D~~ EQUIPMENT BLANK | SAMPLE ID:

PURGING DATA

WELL DIAMETER (inches): NA | TUBING DIAMETER (inches): NA | WELL SCREEN INTERVAL DEPTH: — feet to — feet | STATIC DEPTH TO WATER (feet): NA | PURGE PUMP TYPE OR BAILER: NA

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA | FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA | PURGING INITIATED AT: NA | PURGING ENDED AT: NA | TOTAL VOLUME PURGED (gallons): NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1015	NA	NA	NA	NA	6.77	24.6	B	0.9	0.00	45	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1015 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): NA | TUBING MATERIAL CODE: NA | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	2	P	1L	—	—	NM	6-CHEM	NA	NA
	2	P	500 ml	HNO_3	—	NM	METALS		
	2	P	500 ml	H_2SO_4	—	NM	NH3		

REMARKS: SHEEN: No EQUIPMENT BLANK COMPLETED USING D.I. H_2O PROVIDED BY TEST AMERICA

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-06AR | SAMPLE ID: | DATE: 12-9-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH 52.35 (feet) to 72.35 feet | STATIC DEPTH TO WATER (feet): 47.70 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 104.11 | GROUNDWATER ELEVATION (ft NGVD): 56.41

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (72.35 feet - 47.70 feet) X 0.163 gallons/foot = 4.02 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 72.35 feet) + 0.05 gallons = 0.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67.35 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67.35 | PURGING INITIATED AT: 0841 | PURGING ENDED AT: 0911 | TOTAL VOLUME PURGED (gallons): 6.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0901	4.20	4.20	0.21	49.94	5.49	24.8	181	2.5	3.00	230		
0904	0.63	4.83	0.21	49.95	5.49	24.7	181	2.5	3.04	230		
0907	0.63	5.46	0.21	49.95	5.49	24.7	181	2.5	3.37	231		
0910	0.63	6.09	0.21	49.96	5.49	24.6	181	2.5	3.09	232	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0911 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 67.35 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION # CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE-PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	-	NM	VOA	0.21	BP
	3	G	40ml	NaThio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:
Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-02AR | SAMPLE ID: | DATE: 12-9-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 31.06 feet to 91.06 feet | STATIC DEPTH TO WATER (feet): 30.30 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 87.22 | GROUNDWATER ELEVATION (ft NGVD): 56.92

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (41.06 feet - 30.30 feet) X 0.163 gallons/foot = 1.75 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 41.06 feet) + 0.05 gallons = 0.36 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36.06 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36.06 | PURGING INITIATED AT: 0720 | PURGING ENDED AT: 0742 | TOTAL VOLUME PURGED (gallons): 3.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0732	1.80	1.80	0.15	34.01	5.37	24.0	51	5.4	3.58	159		
0735	0.45	2.25	0.15	34.01	5.33	23.9	51	5.4	2.50	160		
0738	0.45	2.70	0.15	34.01	5.31	23.9	51	5.4	3.65	162		
0741	0.45	3.15	0.15	34.01	5.30	24.0	51	5.4	3.59	163	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0742 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 36.06 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	-	NM	VOA	0.15	BP
	3	G	40ml	NaThio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-8R | SAMPLE ID: | DATE: 12-9-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 61 feet to 71 feet | STATIC DEPTH TO WATER (feet): 41.44 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 99.60 | GROUNDWATER ELEVATION (ft NGVD): 58.16

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 71.00 feet) + 0.05 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.00 | PURGING INITIATED AT: 0640 | PURGING ENDED AT: 0700 | TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0650	1.60	1.60	0.16	42.00	6.88	24.1	243	1.7	5.22	149		
0653	0.48	2.08	0.16	42.00	6.90	24.0	245	1.7	4.83	151		
0656	0.48	2.56	0.16	42.01	6.91	24.0	246	1.6	4.45	154		
0659	0.48	3.04	0.16	42.01	6.91	24.0	247	1.6	4.61	152	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0700 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 66.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	–	NM	VOA	0.16	BP
	3	G	40ml	Na2S2O3	–		EDB/DBCP		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	4	P	1000ml	HNO3	–		GROSS ALPHA		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: DANNY ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-47705-17862.1
Client Contact: Elizabeth Foeller	Phone: 225-907-4060	E-Mail: danielle.harrington@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 242 W Keene Road	Due Date Requested:			
City: Apopka	TAT Requested (days):			
State, Zip: FL, 32703				
Phone: 321-704-4162(Tel) 321-984-8170(Fax)	PO #: Purchase Order Requested			
Email: efoeller@wm.com	WO #:			
Project Name: FL26|Vista Event Desc: Semiannual GW Parameters June Dec	Project #: 28002729			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (40 mL VOA - CG)	6010B, 6020, 7470A (500 mL - PE)	350.1 - Ammonia as N (500 mL-PE)	300.0 Cl, NO3, TDS (1 Liter-PE)	8011 (40 mL VOA - CG)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	S	N	R		
MW-01A	12-4	0948	6	Water	N		3	1	1	1	3		Note: Short holding times include Method 300.0 NO3
MW-07A	12-4	1102	6	Water	N		3	1	1	1	3		
MW-05A	12-4	1217	6	Water	N		3	1	1	1	3		
TRIP	12-4	—	6	Water	N		✓				✓		
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

280-131609 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12-4-19 / 1700	Pro-Tech	[signature]	12-5-19 0920	TA Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:
		2.9, 3.4°C +0.9 IR 9 JL 12-5-19

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

eurofins

Chain of Custody Record

Client Information	Sampler: DANNI ARMOUR	Lab PM: Harrington Danielle M	Carrier Tracking No(s):	COC No: 280-47705-17862.1
Client Contact: Elizabeth Foeller	Phone: 225-907-4060	E-Mail: danielle.harrington@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 242 W Keene Road	Due Date Requested:			
City: Apopka	TAT Requested (days):			
State, Zip: FL 32703				
Phone: 321-704-4162(Tel) 321-984-8170(Fax)	PO #: Purchase Order Requested			
Email: efoeller@wm.com	WO #:			
Project Name: FL26/Vista Event Desc: Semiannual GW Parameters June Dec	Project #: 28002729			
Site: Florida	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	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (40 mL VOA - CG)	6010B, 6020, 7470A (500 mL - PE)	350.1 - Ammonia as N (500 mL-PE)	300.0 Cl, NO3, TDS (1 Liter-PE)	8011 (40 mL VOA - CG)	Total Number of containers	Special Instructions/Note
			Preservation Code:				A	D	S	N	R		
MW-03A	12.5	0700	G	Water	N		3	1	1	1	3		Note: Short holding times include Method 300.0 NO3
MW-04A	12.5	0816	G	Water	N		3	1	1	1	3		
MW-14A	12.5	0939	G	Water	N		3	1	1	1	3		
MW-09A	12.5	1109	G	Water	N		3	1	1	1	3		
MW-11A	12.5	1213	G	Water	N		3	1	1	1	3		
MW-15A	12.5	1330	G	Water	N		3	1	1	1	3		
TRIP	12.5	—	G	Water	N		✓				✓		
				Water									
				Water									
				Water									

280-131664 Chain of Custody

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

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

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

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12-5-19 / 1700	PRO-TECH	Justin Fuhr	12-6-19 0930	TA Denv
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: -0.6, 2.1, 0.6°C +0.4 IR & JL 12-6-19

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-03A | SAMPLE ID: | DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 50.2 feet to 60.2 feet | STATIC DEPTH TO WATER (feet): 36.85 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 92.87 | GROUNDWATER ELEVATION (ft NGVD): 56.02

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 60.20 feet) + 0.05 gallons = 0.41 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.20 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.20 | PURGING INITIATED AT: 0640 | PURGING ENDED AT: 0706 | TOTAL VOLUME PURGED (gallons): 3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0650	1.50	1.50	0.15	37.17	5.41	22.4	73	1.3	3.48	244		
0653	0.45	1.95	0.15	37.17	5.42	22.3	73	1.3	3.08	244		
0656	0.45	2.40	0.15	37.18	5.45	22.4	74	1.3	2.92	245		
0659	0.45	2.85	0.15	37.18	5.44	22.3	73	1.3	2.72	245	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMONA / PAD-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0700 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 55.20 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE-PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	–	NM	VOA	0.15	BP
	3	G	40ml	NaThio	–		EDB/DBCP		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	~~1~~	~~P~~	~~1000ml~~	~~HNO3~~			~~GROSS ALPHA~~		

REMARKS:
Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-DHA | SAMPLE ID: | DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH 36.65 feet to 46.35 feet | STATIC DEPTH TO WATER (feet): 26.03 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 82.04 | GROUNDWATER ELEVATION (ft NGVD): 56.01

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (46.35 feet – 26.03 feet) X 0.163 gallons/foot = 3.31 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.2 gallons + (0.0026 gallons/foot X 46.35 feet) + 0.05 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41.65 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41.65 | PURGING INITIATED AT: 0750 | PURGING ENDED AT: 0816 | TOTAL VOLUME PURGED (gallons): 5.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0806	3.20	3.20	0.20	28.25	5.98	23.9	78	4.6	3.65	225		
0809	0.60	3.80	0.20	28.25	5.99	24.0	79	4.6	3.62	224		
0812	0.60	4.40	0.20	28.25	6.01	24.1	79	4.6	3.86	223		
0815	0.60	5.00	0.20	28.25	6.03	24.0	81	4.6	2.39	224	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PAD-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0816 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 41.65 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	–	NM	VOA	0.2	BP
	3	G	40ml	NaThio	–		EDB/DBCP		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO_3	–		METALS		
	1	AG	500ml	H_2SO_4	–		NH_3		
	1	P	1000ml	HNO_3	–		GROSS ALPHA		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA FL	
WELL NO: MW-14A	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 38.15 feet to 58.15 feet	STATIC DEPTH TO WATER (feet): 38.35		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (58.15 feet - 38.35 feet) X 0.163 gallons/foot = 3.23 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 58.15 feet) + 0.05 gallons = 0.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58 98.15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.15	PURGING INITIATED AT: 0914	PURGING ENDED AT: 0939		TOTAL VOLUME PURGED (gallons): 5.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0929	3.30	3.30	0.22	44.52	5.84	22.9	79	2.0	6.96	244		
0932	0.66	3.96	0.22	44.53	5.87	22.8	80	2.0	6.43	244		
0935	0.66	4.62	0.22	44.53	5.89	22.9	82	2.0	6.87	243		
0938	0.66	5.28	0.22	44.54	5.91	22.9	84	2.0	6.54	242	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0939		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 48.15	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	-	NM	VOA	0.22	BP
	3	G	40 ml	NaHSO4	-		8011		
	1	P	1000 ml	-	-		G-CHEM		
	1	P	500 ml	HNO3	-		METALS		
	1	AG	500 ml	H2SO4	-		NH3		
	1	P	1000 ml	HNO3	-		~~GRAV ALKPHE~~		

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-9A	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 43.5 feet to 63.5 feet	STATIC DEPTH TO WATER (feet): 42.80		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.05 feet – 42.80 feet) X 0.163 gallons/foot = 3.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 63.05 feet) + 0.05 gallons = 0.41 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53.05	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53.05	PURGING INITIATED AT: 1043	PURGING ENDED AT: 1109	TOTAL VOLUME PURGED (gallons): 5.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1058	3.45	3.45	0.23	43.46	7.02	23.4	95	1.9	3.55	181		
1103	0.69	4.14	0.23	43.46	7.04	23.4	95	2.0	3.48	181		
1105	0.69	4.83	0.23	43.46	7.05	23.4	96	1.9	2.97	182		
1108	0.69	5.52	0.23	43.46	7.05	23.5	96	2.0	2.32	182	None	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1109	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 53.05	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	NM	VOA	0.23	BP
	3	G	40 ml	NaThio	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-11A	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 32.5 feet to 52.5 feet	STATIC DEPTH TO WATER (feet): 39.38		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (57.50 feet – 39.38 feet) X 0.163 gallons/foot = 2.95 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.2 gallons + (0.0026 gallons/foot X 57.50 feet) + 0.05 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 49.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.50	PURGING INITIATED AT: 1149	PURGING ENDED AT: 1213		TOTAL VOLUME PURGED (gallons): 5.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1203	3.08	3.08	0.22	40.05	7.71	23.9	338	2.4	9.19	130		
1206	0.66	3.74	0.22	40.05	7.72	23.8	338	2.4	8.81	128		
1209	0.66	4.40	0.22	40.05	7.73	23.8	338	2.4	8.36	128		
1212	0.66	5.06	0.22	40.05	7.74	23.8	339	2.4	8.64	126	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.08; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1213		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 47.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (~~mL~~ per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	NM	VOA	0.22	BP
	3	G	40 ml	NaThio	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:

SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ±0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-15A	SAMPLE ID:		DATE: 12-5-19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 49.3 feet to 69.3 feet	STATIC DEPTH TO WATER (feet): 39.30		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (69.30 feet – 39.30 feet) X 0.163 gallons/foot = 4.89 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 69.30 feet) + 0.05 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.30	PURGING INITIATED AT: 1301	PURGING ENDED AT: 1330		TOTAL VOLUME PURGED (gallons): 7.83

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1320	5.13	5.13	0.27	40.42	5.28	24.7	60	3.2	4.21	145		
1323	0.81	5.94	0.27	40.42	5.29	24.7	60	3.3	4.26	148		
1326	0.81	6.75	0.27	40.42	5.29	24.6	60	3.3	4.03	149		
1329	0.81	7.56	0.27	40.42	5.28	24.7	60	3.3	3.99	150	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1330		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
PUMP OR TUBING DEPTH IN WELL (feet): 64.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	–	NM	VOA	0.27	BP
	3	G	40ml	NaThio	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	4	P	1000 ml	HNO3	–		~~GROSS ALPHA~~		

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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

eurofins Environment Testing TestAmerica

Chain of Custody Record

Client Information	Sampler: DANNY ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-59404-20781.1
Client Contact: Elizabeth Foeller	Phone: 225-907-4060	E-Mail: danielle.harrington@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 242 W Keene Road	Due Date Requested:			
City: Apopka	TAT Requested (days):			
State, Zip: FL, 32703				
Phone:	PO #: Purchase Order Requested			
Email: efoeller@wm.com	WO #:			
Project Name: FL26|Vista/FL26 Event: Annual Intermediate Wells - Dec	Project #: 28002729			
Site: Florida	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	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)	IC Nitrate and Chloride (250ml PE)	6010B - Sodium (500ml PE)	350.1 - Ammonia as N (500ml AG)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S		
MW-03B	12-5	0735	G	W	N		1	1	1		Login: Shortholds include Nitrate by IC
MW-04B	12-5	0850	G	W	N		1	1	1		
MW-14B	12-5	1023	G	W	N		1	1	1		
MW-09B	12-5	1143	G	W	N		1	1	1		
MW-11B	12-5	1244	G	W	N		1	1	1		
MW-15B	12-5	1401	G	W	N		1	1	1		

280-131668 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12-5-19 / 1700	PRO-TECH		12-6-19 0930	TA Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: -0.6, 2.1, 0.6 °C +0.9 IR 9 JL 12-6-19

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

eurofins Environment Testing TestAmerica

Chain of Custody Record

Client Information	Sampler: DANNY ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-59404-20781.1
Client Contact: Elizabeth Foeller	Phone: 225-907-4060	E-Mail: danielle.harrington@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 242 W Keene Road	Due Date Requested:			
City: Apopka	TAT Requested (days):			
State, Zip: FL, 32703				
Phone:	PO #: Purchase Order Requested			
Email: efoeller@wm.com	WO #:			
Project Name: FL26|Vista/FL26 Event: Annual Intermediate Wells - Dec	Project #: 28002729			
Site: Florida	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	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)	IC Nitrate and Chloride (250ml PE)	6010B - Sodium (500ml PE)	350.1 - Ammonia as N (500ml AG)	Total Number of containers	Special Instructions/Note:
			Preservation Code				N	D	S		
EQUIPMENT BLANK	12-9	1015	G	W	N		1	1	1		Login: Shortholds include Nitrate by IC
MW-02B	12-9	0820	G	W	N		1	1	1		
MW-06BR	12-9	0943	G	W	N		1	1	1		

280-131756 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	12-9-19 1700	PRO-TECH	Julian Fuhr	12-10-19 0955	TA Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.4, 0.0, 5.3°C +0.4 IR 8 TL 12-10-19

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

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: DANNY ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-47705-17862.1
Client Contact: Elizabeth Foeller	Phone: 225.907-4060	E-Mail: danielle.harrington@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 242 W Keene Road	Due Date Requested:			
City: Apopka	TAT Requested (days):			
State, Zip: FL, 32703				
Phone: 321-704-4162(Tel) 321-984-8170(Fax)	PO #: Purchase Order Requested			
Email: efoeller@wm.com	WO #:			
Project Name: FL26|Vista Event Desc: Semiannual GW Parameters June Dec	Project #: 28002729			
Site: Florida	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (40 mL VOA - CG)	6010B, 6020, 7470A (500 mL - PE)	350.1 - Ammonia as N (500 mL-PE)	300.0 Cl, NO3, TDS (1 Liter-PE)	8011 (40 mL VOA - CG)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	S	N	R		
EQUIPMENT BLANK	12-9	1015	G	Water	N			1	1	1			Note: Short holding times include Method 300.0 NO3
MW-06AR	12-9	0911	G	Water	N		3	1	1	1	3		
MW-02AR	12-9	0742	G	Water	N		3	1	1	1	3		NOT ENOUGH TRIP
MW-08R	12-9	0700	G	Water	N		3	1	1	1	3		BLANKS WERE PROVIDED
TRIP	12-9	—	G	Water	N		✓				✓		SO BOTTLES FOR
				Water									VISTA AND PINE
				Water									RIDGE ARE MIXED
				Water									IN THE RETURN
				Water									COOLERS
				Water									

280-131758 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-9-19 / 1700	PRO-TECH		12-10-19 0955	FA Dm
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.4, 0.0, 3.3C +0.9 IR 8 JL 12-10-19

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-131607-1

Login Number: 131607
List Number: 1
Creator: Lubin, Julius C

List Source: Eurofins 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)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-131607-1

Login Number: 131609
List Number: 1
Creator: Lubin, Julius C

List Source: Eurofins 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)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-131607-1

Login Number: 131664
List Number: 1
Creator: Lubin, Julius C

List Source: Eurofins 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)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-131607-1

Login Number: 131668
List Number: 1
Creator: Lubin, Julius C

List Source: Eurofins 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)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-131607-1

Login Number: 131756
List Number: 1
Creator: Zimmerman, Steven M

List Source: Eurofins 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)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-131607-1

Login Number: 131758

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Zimmerman, Steven M

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 280-133440-1
Client Project/Site: FL26|Vista

For:
Waste Management
14415 CR 39
Duette, Florida 34219

Attn: Elizabeth Foeller

Danielle Harrington

Authorized for release by:
2/10/2020 1:18:57 PM

Danielle Harrington, Project Manager II
(303)736-0176
danielle.harrington@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-133440-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

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

Job ID: 280-133440-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: FL26|Vista

Report Number: 280-133440-1

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

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

This submission may contain field data obtained by the sampler. The methods referenced in this submission for the field data results may not be the methods used to obtain the field data by the sampler.

RECEIPT
The sample was received on 2/4/2020; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

All sample bottles were received in acceptable condition.

HOLDING TIMES
All Holding Times were met.

METHOD BLANKS
All Method Blanks were within the acceptance limits.

LABORATORY CONTROL SAMPLES (LCS)
All Laboratory Control Samples were within the acceptance limits.

MATRIX SPIKE (MS) and MATRIX SPIKE DUPLICATES (MSD)
All Matrix Spike and Matrix Spike Duplicates Samples were within the acceptance limits.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-133440-1

Client Sample ID: MW-11A

Lab Sample ID: 280-133440-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	11		1.0	0.18	mg/L	2		300.0	Total/NA
Field pH	7.73				SU	1		Field Sampling	Total/NA
Field Conductivity	326				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.03				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.4				mg/L	1		Field Sampling	Total/NA
Field Color	None				No Unit	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-133440-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
Field Sampling	Field Sampling	EPA	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-133440-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-133440-1	MW-11A	Water	02/03/20 12:40	02/04/20 09:30	

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-133440-1

General Chemistry

Client Sample ID: MW-11A
Date Collected: 02/03/20 12:40
Date Received: 02/04/20 09:30

Lab Sample ID: 280-133440-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	11		1.0	0.18	mg/L			02/04/20 17:09	2

Method: Field Sampling - Field Sampling

Client Sample ID: MW-11A
Date Collected: 02/03/20 12:40
Date Received: 02/04/20 09:30

Lab Sample ID: 280-133440-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.73				SU			02/03/20 10:40	1
Field Conductivity	326				umhos/cm			02/03/20 10:40	1
Field Temperature	23.9				Degrees C			02/03/20 10:40	1
Field Turbidity	8.03				NTU			02/03/20 10:40	1
Field Dissolved Oxygen	2.4				mg/L			02/03/20 10:40	1
Field Color	None				No Unit			02/03/20 10:40	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-484844/6
Matrix: Water
Analysis Batch: 484844

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.090	U	0.50	0.090	mg/L			02/04/20 11:17	1

Lab Sample ID: LCS 280-484844/4
Matrix: Water
Analysis Batch: 484844

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	5.21		mg/L		104	90 - 110

Lab Sample ID: LCSD 280-484844/5
Matrix: Water
Analysis Batch: 484844

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	5.24		mg/L		105	90 - 110	1	10

Lab Sample ID: MRL 280-484844/3
Matrix: Water
Analysis Batch: 484844

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	0.536		mg/L		107	50 - 150

Lab Sample ID: 280-133347-C-11 MS
Matrix: Water
Analysis Batch: 484844

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.090	U	5.00	5.28		mg/L		106	80 - 120

Lab Sample ID: 280-133347-C-11 MSD
Matrix: Water
Analysis Batch: 484844

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.090	U	5.00	5.16		mg/L		103	80 - 120	2	20

Lab Sample ID: 280-133347-C-11 DU
Matrix: Water
Analysis Batch: 484844

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.090	U	0.090	U	mg/L		NC	15

QC Association Summary

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-133440-1

General Chemistry

Analysis Batch: 484844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-133440-1	MW-11A	Total/NA	Water	300.0	
MB 280-484844/6	Method Blank	Total/NA	Water	300.0	
LCS 280-484844/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-484844/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-484844/3	Lab Control Sample	Total/NA	Water	300.0	
280-133347-C-11 MS	Matrix Spike	Total/NA	Water	300.0	
280-133347-C-11 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-133347-C-11 DU	Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 485440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-133440-1	MW-11A	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

Job ID: 280-133440-1

Client Sample ID: MW-11A

Date Collected: 02/03/20 12:40
Date Received: 02/04/20 09:30

Lab Sample ID: 280-133440-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	5 mL	5 mL	484844	02/04/20 17:09	JAP	TAL DEN
Total/NA	Analysis	Field Sampling		1			485440	02/03/20 10:40	DMH	TAL DEN

Laboratory References:

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

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: DAWNY ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-96173-29243.1
Client Contact: Elizabeth Foeller	Phone: 225-907-4060	E-Mail: danielle.harrington@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: 14415 CR 39	Due Date Requested:			
City: Duette	TAT Requested (days):			
State, Zip: FL, 34219				
Phone: 941-720-0564(Tel)	PO #: Purchase Order Requested			
Email: efoeller@wm.com	WO #:			
Project Name: FL26|Vista	Project #: 28002729			
Site: FLORIDA Resample 02/2020	SSOW#:			

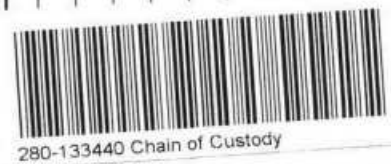
Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_48HR - Nitrate by 300.0	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
MW-11A	2-3	1240	G	Water	N		1		
									Login: skip sites/events when logging
									Shorthold is Nitrate by IC



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2-3-20 / 1800	PRO-TELH		2/4/2020 0930	TH Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 IR#9 to 9 Transfer RP 2/4/20

Ver: 01/16/2019

2/10/2020

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-11A	SAMPLE ID:		DATE: 2-3-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37.5 feet to 52.5 feet	STATIC DEPTH TO WATER (feet): 39.89		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (57.50 feet - 39.89 feet) X 0.163 gallons/foot = 2.87 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X 57.50 feet) + 0.05 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 49.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 49.50	PURGING INITIATED AT: 1216	PURGING ENDED AT: 1240		TOTAL VOLUME PURGED (gallons): 5.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1230	2.94	2.94	0.21	40.59	7.68	23.8	325	2.5	7.12	128		
1233	0.63	3.57	0.21	40.59	7.71	23.9	326	2.5	8.25	128		
1236	0.63	4.20	0.21	40.59	7.72	23.9	326	2.4	8.65	127		
1239	0.63	4.83	0.21	40.59	7.73	23.9	326	2.4	8.03	127	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 49.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	N.M	VOA		BP
	3	G	40 ml	NaOH	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: N/O

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-133440-1

Login Number: 133440
List Number: 1
Creator: Pottruff, Reed W

List Source: Eurofins 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)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
Baton Rouge (504) 293-0136
Jacksonville (904) 693-3177
Houston (208) 441-7606
Pittsburgh (412) 746-8833

FACILITY NAME: VISTA

PTH TO WATER
EASUREMENTS

DATE: 12-4-19

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MW-01A	40.93
MW-01B	50.72
MW-02AR	30.30
MW-02B	32.94
MW-03A	36.85
MW-03B	37.08
MW-04A	26.03
MW-04B	26.19
MW-05A	24.42
MW-05B	25.60
MW-06AR	47.70
MW-06BR	47.69
MW-07A	38.63
MW-07B	51.70
MW-08R	41.44
MW-FL01	37.14
MW-FL02R	28.43

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MW-FL03	42.11
MW-01	24.40
MW-09A	42.80
MW-09B	43.14
MW-11A	39.38
MW-11B	39.18
MW-14A	38.35
MW-14B	43.93
MW-15A	39.30
MW-15B	48.52

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
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Houston (248) 441-7606
Pittsburgh (412) 746-8833

FACILITY NAME: VISTA

PTH TO WATER
EASUREMENTS

DATE: 12-4-19

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
BPZ-1	COULD NOT LOCATE
BPZ-2	18.69
BPZ-3	27.24
BPZ-4	21.90
BPZ-5	25.74
BPZ-6	33.70
BPZ-7	29.87
BPZ-8	37.98
BPZ-9	40.78
BPZ-10	30.49
BPZ-11	31.16
BPZ-12	27.56
PZ-4	16.87

MONITORING LOCATION	DEPTH TO WATER (ft TOC)

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: VISTA Personnel: DANNY ARMOUR

Date: 12-4-19 Page 1 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-01A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-01B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-02AR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-02B	☐ OK ☒ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	BROKEN HINGE ON PROTECTIVE CASING
MW-03A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-03B	☐ OK ☒ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	BROKEN HINGE ON PROTECTIVE CASING
MW-04A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-04B	☐ OK ☒ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	BROKEN HINGE ON PROTECTIVE CASING
MW-05A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-05B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

Return this form to Site Manager - FOR INTERNAL USE ONLY.

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: VISTA

Personnel: DANNY ARMOUR

Date: 12-4-19

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-06AR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-06BR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-07A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-07B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-08R	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	ELECTRIC SUBMERSIBLE PUMP	☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
MW FL01	☐ OK ☒ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☐ Clear NA ☐ Turbid	☐ OK NA ☐ Inadequate	NOT SAMPLED BROKEN HINGE ON PROTECTIVE CASING
MW FL02R	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear NA ☐ Turbid	☐ OK NA ☐ Inadequate	NOT SAMPLED
MW FL03	☐ OK ☒ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear NA ☐ Turbid	☐ OK NA ☐ Inadequate	NOT SAMPLED BROKEN HINGE ON PROTECTIVE CASING
MW-9A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-9B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

Return this form to Site Manager - FOR INTERNAL USE ONLY.

WASTE MANAGEMENT

WELL CONDITION INSPECTION FORM

Site: VISTA

Personnel: DANNY ARMOUR

Date: 12-4-19

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-11A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-11B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-15A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-15B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-14A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-14B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	ELECTRIC SUBMERSIBLE PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to Site Manager - FOR INTERNAL USE ONLY.

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15A100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1.413 mS/cm PINE ENV. LOT# 8GJ1041 EXP: 10/19

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
19/12/03	0730	A	1.413	AUTO CAL	-	YES	INIT	DM
19/12/04	0830	A	1.413	AUTO CAL	-	YES	CONT	DM
19/12/05	0620	A	1.413	AUTO CAL	-	YES	CONT	DM
19/12/09	0620	A	1.413	AUTO CAL	-	YES	INIT	DM

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]* 2708A/4 EXP: 7/23/20

Standard A 7.00 (std) PINE ENV LOT# ~~9GA1012 EXP: 1/21~~

Standard B 4.00 (std) PINE ENV LOT# 9GA1012 EXP: 1/21

Standard C 10.00 (std) PINE ENV LOT# 2703951 EXP: 8/20/20

DATE (y/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
19/12/03	0730	A	7.00	AUTO CAL	-	YES	INIT	DA
"	"	B	4.00	"	-	YES	INIT	DA
"	"	C	10.00	"	-	YES	INIT	DA
19/12/04	0830	A	7.00	AUTO CAL	-	YES	CONT	DA
"	"	B	4.00	"	-	YES	CONT	DA
"	"	C	10.00	"	-	YES	CONT	DA
19/12/05	0620	A	7.00	AUTO CAL	-	YES	CONT	DA
"	"	B	4.00	"	-	YES	CONT	DA
"	"	C	10.00	"	-	YES	CONT	DA
19/12/09	0620	A	7.00	AUTO CAL	-	YES	INIT	DA
"	"	B	4.00	"	-	YES	INIT	DA
"	"	C	10.00	"	-	YES	INIT	DA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 200710329

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL CI ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 NTU HF SCIENTIFIC LOT# 90103 EXP: JAN 2021

Standard B 10.0 NTU HF SCIENTIFIC LOT# 90102 EXP: JAN 2021

Standard C 0.02 NTU HF SCIENTIFIC LOT# 90101 EXP: JAN 2021

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
19/12/03	0730	A	1000	AUTO CAL	-	YES	INIT	DA
"	"	B	10.0	"	-	YES	INIT	DA
"	"	C	0.02	"	-	YES	INIT	DA
19/12/04	0830	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10.0	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA
19/12/05	0620	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10.0	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA
19/12/09	0620	A	1000	AUTO CAL	-	YES	INIT	DA
"	"	B	10.0	"	-	YES	INIT	DA
"	"	C	0.02	"	-	YES	INIT	DA

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR
Standard B _____
Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
19/12/03	0730	A	100% SAT	100%	–	YES	INIT	DA
19/12/04	0830	A	100% SAT	100%	–	YES	CONT	DA
19/12/05	0620	A	100% SAT	100%	–	YES	CONT	DA
19/12/09	0620	A	100% SAT	100%	–	YES	INIT	DA

Table FS 2200-2
Dissolved Oxygen Saturation

TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L
deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%
15.0	10.084	2.017	19.0	9.276	1.855	23.0	8.578	1.716	27.0	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.040	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.940	1.588
15.3	10.019	2.004	19.3	9.220	1.844	23.3	8.530	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.840	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.700	27.5	7.898	1.580
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.870	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.450	1.690	27.8	7.856	1.571
15.9	9.891	1.978	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16.0	9.870	1.974	20.0	9.092	1.818	24.0	8.418	1.684	28.0	7.828	1.566
16.1	9.849	1.970	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.800	1.560
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.340	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.950	1.790	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17.0	9.665	1.933	21.0	8.915	1.783	25.0	8.263	1.653	29.0	7.691	1.538
17.1	9.645	1.929	21.1	8.898	1.780	25.1	8.248	1.650	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.880	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.530
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.545	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.520
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18.0	9.467	1.893	22.0	8.744	1.749	26.0	8.114	1.623	30.0	7.559	1.512
18.1	9.448	1.890	22.1	8.727	1.745	26.1	8.099	1.620	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.710	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.070	1.614	30.3	7.520	1.504
18.4	9.390	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.660	1.732	26.5	8.040	1.608	30.5	7.494	1.499
18.6	9.352	1.870	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

Derived using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 1992

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 200710329

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 NTU HF SCIENTIFIC LOT# 90103 EXP: JAN 2021

Standard B 10.0 NTU HF SCIENTIFIC LOT# 90102 EXP: JAN 2021

Standard C 0.02 NTU HF SCIENTIFIC LOT# 90101 EXP: JAN 2021

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/02	1320	A	1000	AUTO CAL	-	Yes	INIT	DSA
|	|	B	10.0	|	-	Yes	INIT	DSA
		C	0.02		-	Yes	INIT	DSA
20/02/03	1130	A	1000	AUTO CAL	-	Yes	CONT	DSA
|	|	B	10.0	|	-	Yes	CONT	DSA
		C	0.02		-	Yes	CONT	DSA
20/02/04	0700	A	1000	AUTO CAL	-	Yes	CONT	DSA
|	|	B	10.0	|	-	Yes	CONT	DSA
		C	0.02		-	Yes	CONT	DSA
20/02/05	0630	A	1000	AUTO CAL	-	Yes	CONT	DSA
|	|	B	10.0	|	-	Yes	CONT	DSA
		C	0.02		-	Yes	CONT	DSA
20/02/06	0630	A	1000	AUTO CAL	-	Yes	CONT	DSA
|	|	B	10.0	|	-	Yes	CONT	DSA
		C	0.02		-	Yes	CONT	DSA
20/02/07	0800	A	1000	AUTO CAL	-	Yes	CONT	DSA
|	|	B	10.0	|	-	Yes	CONT	DSA
		C	0.02		-	Yes	CONT	DSA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]* 2708A/H EXP: 7/23/20

Standard A 7.00 (std) PINK ENV LOT# ~~9GA1010 EXP: 1/21~~

Standard B 4.00 (std) PINK ENV LOT# 9GA1010 EXP: 1/21

Standard C 10.00 (std) PINK ENV LOT# 2703951 EXP: 8/20/20

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/02	1320	A	7.00	AUTO CAL	-	YES	INIT	DSA
"	"	B	4.00	"	-	YES	INIT	DSA
"	"	C	10.00	"	-	YES	INIT	DSA
20/02/03	1130	A	7.00	AUTO CAL	-	YES	CONT	DSA
"	"	B	4.00	"	-	YES	CONT	DSA
"	"	C	10.00	"	-	YES	CONT	DSA
20/02/04	0700	A	7.00	AUTO CAL	-	YES	CONT	DSA
"	"	B	4.00	"	-	YES	CONT	DSA
"	"	C	10.00	"	-	YES	CONT	DSA
20/02/05	0630	A	7.00	AUTO CAL	-	YES	CONT	DSA
"	"	B	4.00	"	-	YES	CONT	DSA
"	"	C	10.00	"	-	YES	CONT	DSA
20/02/06	0630	A	7.00	AUTO CAL	-	YES	CONT	DSA
"	"	B	4.00	"	-	YES	CONT	DSA
"	"	C	10.00	"	-	YES	CONT	DSA
20/02/07	0800	A	7.00	AUTO CAL	-	YES	CONT	DSA
"	"	B	4.00	"	-	YES	CONT	DSA
"	"	C	10.00	"	-	YES	CONT	DSA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/02	1320	A	100% SAT	100%	~	YES	INIT	DM
20/02/03	1130	A	100% SAT	100 %	~	YES	CONT	DM
20/02/04	0700	A	100% SAT	100 %	~	YES	CONT	DM
20/02/05	0630	A	100% SAT	100 %	~	YES	CONT	DM
20/02/06	0630	A	100% SAT	100 %	~	YES	CONT	DM
20/02/07	0800	A	100% SAT	100 %	~	YES	CONT	DM

Table FS 2200-2
Dissolved Oxygen Saturation

TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L
deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%
15.0	10.084	2.017	19.0	9.276	1.855	23.0	8.578	1.716	27.0	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.040	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.940	1.588
15.3	10.019	2.004	19.3	9.220	1.844	23.3	8.530	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.840	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.700	27.5	7.898	1.580
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.870	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.450	1.690	27.8	7.856	1.571
15.9	9.891	1.976	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16.0	9.870	1.974	20.0	9.092	1.818	24.0	8.418	1.684	28.0	7.828	1.566
16.1	9.849	1.970	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.800	1.560
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.340	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.950	1.790	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17.0	9.665	1.933	21.0	8.915	1.783	25.0	8.263	1.653	29.0	7.691	1.538
17.1	9.645	1.929	21.1	8.898	1.780	25.1	8.248	1.650	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.880	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.530
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.545	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.520
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18.0	9.467	1.893	22.0	8.744	1.749	26.0	8.114	1.623	30.0	7.559	1.512
18.1	9.448	1.890	22.1	8.727	1.745	26.1	8.099	1.620	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.710	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.070	1.614	30.3	7.520	1.504
18.4	9.390	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.660	1.732	26.5	8.040	1.608	30.5	7.494	1.499
18.6	9.352	1.870	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

Derived using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 1992.

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15A100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1.413 mS/cm PINE ENV. LOT# 8GJ1041 EXP: 10/19

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/02	1320	A	1.413	AUTO CAL	-	YES	INIT	DG
20/02/03	1130	A	1.413	AUTO CAL	-	YES	CONT	DA
20/02/04	0700	A	1.413	AUTO CAL	-	YES	CONT	DG
20/02/05	0630	A	1.413	AUTO CAL	-	YES	CONT	DA
20/02/06	0630	A	1.413	AUTO CAL	-	YES	CONT	DG
20/02/07	0800	A	1.413	AUTO CAL	-	YES	CONT	DG

APPENDIX B

COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND ADaPT FILE